HOSE, FITTINGS, AND EQUIPMENT

Catalog 4400 June 20, 2025

Parker

RESOURCES

Quick Links

Website Link	www.parker.com/hpd
Safehose Link	www.parker.com/safehose
Customer Service E-mail	HPD.Support@support.parker.com
Crimpsource Link	www.parker.com/crimpsource
Certifications & Compliance Link	Certifications & Compliance
CAD Files Link	www.parker.com/cad
Product Videos Link	HPD Product Videos
Blogs Link	www.parker.com/blog

ADDITIONAL RESOURCES

650 Hose Bulletin

777 Hose Bulletin

Construction, Maintenance & Repair Products

Critical Protection Bulletin

Equipment Bulletin

EZ Form Hose Bulletin

GlobalCore Bulletin

Hydraulic & Industrial Quick Reference Guide

Industrial Quick Reference Guide

PURE Food Hose Bulletin

Thermal Management Bulletin

PARKER SAFETY GUIDE FOR SELECTING AND USING HOSE, TUBING, FITTINGS AND RELATED ACCESSORIES

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF HOSE, TUBING, FITTINGS, ASSEMBLIES OR RELATED ACCESSORIES ("PRODUCTS") CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. POSSIBLE CONSEQUENCES OF FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THESE PRODUCTS INCLUDE BUT ARE NOT LIMITED TO:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric powerlines.
- Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup or other sources of electricity.
- Sparking or explosion while spraying paint or flammable liquids.

Before selecting or using any of these products, it is important that you read and follow the instructions below. Only hose from Parker's Stratoflex Products Division is approved for in flight aerospace applications, and no other hose can be used for such in flight applications.

Parker Publication No. 4400-B1 Revised 2007

DO NOT MIX & MATCH

DO NOT MIX & MATCH – Components from different manufacturers should not be combined to create hose assemblies (apart from rare instances when both manufacturers have approved the exception). To mix and match components is to increase the risk of hose failure – a dangerous situation regardless of setting or application. Possible consequences of hose failure resulting from the use of incompatible components include:

- **Fittings thrown off at high speed**
- **High velocity fluid discharge**
- **Fluid injection injury**
- **Violently "whipping" hose**
- **Sparking or explosion from sprayed flammable fluids**
- **Suddenly moving / falling objects otherwise held static by fluid pressure**

The individual is solely responsible for the hose assemblies he or she fabricates. Fluid power professionals should abide by three basic tenets when fabricating hose assemblies:

- **Only assemble hoses and fittings of the same make**
- **Always use a crimper approved by the manufacturer of the hose and fittings**
- **Crimp only to the manufacturer's specification**

Parker's recommendations are consistent with SAE standard J1273: *Industry Consensus on Best Practices for Using Hydraulic Hose.* The complete technical paper, which includes SAE-recommended practices for hose assembly fabrication, can be purchased from **www.SAE.org.**

INDUSTRIES WE SERVE

Quick Links

Agriculture Learn More

Construction Learn More

Engine Coolant Learn More

Entertainment Learn More

Food & Beverage Learn More

Marine Learn More

Material Handling Learn More

Mining Learn More

Municipal Learn More

OEM Learn More

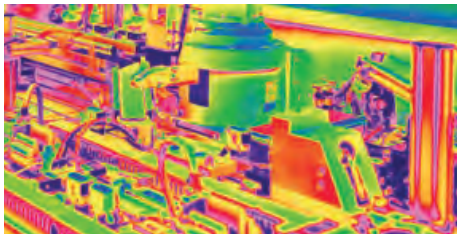
Oil & Gas Learn More

Production & Manufacturing Learn More

INDUSTRIES WE SERVE

Quick Links - *Continued*

Refuse & Waste Learn More



Thermal Management Learn More

Transportation Learn More

SOLUTIONS

Quick Links

GlobalCore Hoses Learn More

Hydraulic Crimpers & Equipment Learn More

PURE Food Grade Hoses Learn More

EZ Form Hose Learn More

Hose Covers Learn More

BEFORE YOU SPEC IT, STAMP IT

S T A M P

SIZE TEMPERATURE APPLICATION MEDIA PRESSURE

S — SIZE

Hose inside diameter, outside diameter and overall length

T — TEMPERATURE

Maximum temperature of the material being conveyed and of the application environment

A — APPLICATION

External conditions/environment such as abrasion, bend radius, climate/temperature, crushing, color, conductivity/non conductivity, flexing, industry or regulatory specifications, kinking and exposure to chemicals, oil, ozone and ultraviolet light

M — MEDIA

Type and concentration of material being conveyed and compatibility with the hose

P — PRESSURE

Maximum system pressure, including pressure spikes, suction/vacuum

All Parker hydraulic hoses have passed the industry rated specifications for burst pressure and carry a 4:1 design factor unless otherwise noted. Burst pressure ratings for hose are for manufacturing test purposes only. They are not an indication that the product can be used above the published maximum working pressure. It is for this reason that the burst pressure ratings have been removed from the hose charts within the catalog.

See Technical Section for more information.

PARKER HOSE NOMENCLATURE

PERFORMANCE LEGEND

Half SAE Bend	Tough Cover	SuperTough Cover	Critical Protection Cover	High Temperature	Low Temperature
2	TC	ST	CP	+	−

Example: 487TC-8

487TC-8 - Hose Type

487**TC**-8 - Indicates the special feature of the hose (in this case, 'Tough Cover')

487TC-**8** - Hose inside diameter dash size (in this case, 8/16" or 1/2")

Example:

Hose Information
- Base part number
- Description
- SAE, ISO, and EN specifications

Hose Inner Diameter
Measured in 1/16 inch increments identified by use of a "dash"(-) numbering system. i.e., 4/16" = 1/4" = -4.

Hose Outer Diameter
A critical measurement when considering hose clamps and applications where envelope size is limited.

Hose Working Pressure
Should have a working pressure rating meeting or exceeding the maximum operating pressure of the system. The maximum rating is listed below for where the hose is to be used.

Visually shows hose construction.

Performance

view on web page

487
Hydraulic – Constant Working Pressure
ISO 18752

# Part Number	Standard Cover	Tough Cover	Super Tough	Critical Protection	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series	Parkrimp 77 Series
487	487	487TC	487ST	487CP	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
	ISO 18752 Performance															
487-4	AC	AC	AC		1/4	6,3	0.52	13,1	4000	28,0	2	50	0.20	0,30	Link	
487-6	AC	AC	AC	AC	3/8	10	0.68	17,2	4000	28,0	2-1/2	65	0.28	0,42	Link	
487-8	AC	AC	AC	AC	1/2	12,5	0.81	20,4	4000	28,0	3-1/2	90	0.35	0,52	Link	
487-10	AC	AC	AC		5/8	16	0.94	23,9	4000	28,0	4	100	0.44	0,66	Link	
487-12	AC	AC	AC	AC	3/4	19	1.10	27,8	4000	28,0	4-3/4	120	0.58	0,86	Link	
487-16	BC	CC	CC	CC	1	25	1.49	37,8	4000	28,0	6	150	1.34	1,99	Link	
487-20	BC	CC	CC	CC	1-1/4	31,5	1.82	46,3	4000	28,0	8-1/4	210	1.74	2,59		Link
487-24	BC	CC	CC		1-1/2	38	2.03	52,8	4000	28,0	10	250	2.07	3,08		Link
487-32	BC	CC	CC		2	51	2.65	67,3	4000	28,0	12-1/2	320	4.35	6,47		Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Two-braid steel wire for sizes -4 to -12.
Four-spiral steel wire for sizes - 16 to -24.
Six-spiral steel wire for size -32.

Cover: Standard Cover: Synthetic rubber.
ToughCover: Synthetic rubber abrasion resistant.
SuperTough Cover: Synthetic rubber super abrasion resistant. Critical Protection Cover: Synthetic rubber excellent abrasion & damage resistance.

Fittings: 43 Series, sizes -4 to -16 - pg. 83.
77 Series, sizes -20 to -32 - pg. 147.

Temperature Range: Standard Cover: -40°F to +212°F (-40°C to +100°C).
ToughCover & SuperTough Cover: -40°F to +257°F (-40°C to +125°C).

For more information regarding hose application and temperature, see the Technical Section.

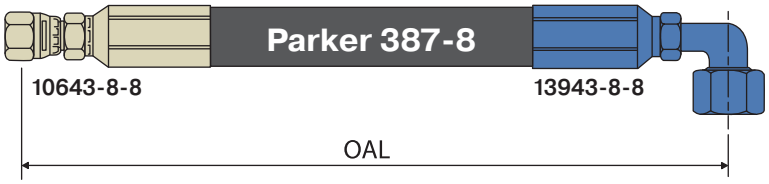
Minimum Bend Radius
Is the smallest arc that the hose can be bent before its life is greatly reduced. Exceeding the bend radius can cause kinking, inner tube washout and excessive stress on reinforcement.

Weight
Provided by the foot for instances where it is a critical parameter in the design of the system.

Approved Fitting
To be used with the hose. Could be crimped or field attachable.

HOW TO ORDER CRIMPED HOSE ASSEMBLIES

Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8	Box 9	Box 10	Box 11
F	387	06	39	08	08	08		-24		



Box 1: Prefix	
Symbol	**Description**
F =	Parkrimp Crimp Fittings (43, 77 Series, etc.)
P =	Parkrimp Crimp Fittings (26 Series only)
Y =	Permanent Crimp Fittings (HY Series only)
K =	Permanent Crimp Fittings (81 Series only)

Box 2: Hose Type	
Symbol	**Description**
387 =	ISO 18752 Hose
Note: see page A-6 for complete list of Parker Hoses	

Box 3: 1st Fitting End Configuration	
Symbol	**Description**
06 =	Female JIC 37 Degree Swivel Straight
Note: See page E-32 for a complete list of fitting configurations	

Box 4: 2nd Fitting End Configuration	
Symbol	**Description**
39 =	Female JIC 37 Degree Swivel 90 Degree Elbow - Short Drop

Box 5: 1st Fitting End Connection Size	
Symbol	**Description**
08 =	1/2" Female JIC (3/4x16 Thread)

Box 6: 2nd Fitting End Connection Size	
Symbol	**Description**
08 =	1/2" Female JIC (3/4x16 Thread)

Box 7: Hose Size	
Symbol	**Description**
08 =	1/2 inch Hose Inner Diameter

Box 8: Fitting Material		
Symbol		**Description**
No Suffix	=	Steel
B	=	Brass
C	=	316 Stainless Steel
BA	=	Brass nipple with steel nut and socket
BS	=	Brass nipple with brass nut and steel socket
ZJ	=	XTR plating

Box 9: Over All Length (OAL)	
Symbol	**Description**
24 =	Expressed in inches (610 mm)
OAL of a hose assembly is measured from the end of the straight fitting or centerline of the fitting seat. OAL of the Seal-Lok® hose assembly is measured to the sealing surface of the straight fittings or to the centerline of the elbow fittings	

Box 10: Displacement Angle	
Symbol	**Description**
270	Specified only if two (2) elbow fittings are used. Starting with either end as the far end, measure angle clockwise to describe the displacement angle of the near end

Box 11: Hose Assembly Guards	
Symbol	**Description**
SG =	Spring Guard
HG =	Polyguard
PG =	ParKoil™
FS =	Fire Sleeve
AS =	Partek Sleeving
PS =	Partek Sleeving
Note: When spelling out an assembly part number, list entire sleeving part number	

HOW TO ORDER FIELD ATTACHABLE HOSE ASSEMBLIES

Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8	Box 9	Box 10	Box 11
R	201	06	39	06	06	08		-24		

Box 1: Prefix	
Symbol	**Description**
R =	Field Attachable (all series except 22 & 23)
M =	Field Attachable (22 & 23 Series only)
B =	Clamp i.e., 88HC-H and 88DB on 88 Series
C =	Worm Gear Clamp i.e., 88H Series on 88 Series

Box 2: Hose Type	
Symbol	**Description**
201 =	SAE 100R5
Note: See page A-6 for complete list of Parker Hoses	

Box 3: 1st Fitting End Configuration	
Symbol	**Description**
06 =	Female JIC 37 Degree Swivel - Str.
Note: See page E-32 for a complete list of fitting configurations	

Box 4: 2nd Fitting End Configuration	
Symbol	**Description**
39 =	JIC 37 Degree Flare Elbow

Box 5: 1st Fitting End Connection Size	
Symbol	**Description**
06 =	3/8" JIC (9/16x18 Thread)

Box 6: 2nd Fitting End Connection Size	
Symbol	**Description**
06 =	3/8" JIC (9/16x18 Thread)

• See page 448 for Agency Approval For Building Hose Assemblies Key

Box 7: Hose Size	
Symbol	**Description**
08 =	13/32 inch Hose Inner Diameter

Box 8: Fitting Material	
Symbol	**Description**
No Suffix =	Steel
B =	Brass
C =	316 Stainless Steel
BA =	Brass nipple with steel nut and socket
BS =	Brass nipple with brass nut and steel socket

Box 9: Over All Length (OAL)	
Symbol	**Description**
24 =	Expressed in inches (610 mm)
OAL of a hose assembly is measured from the end of the straight fitting or centerline of the fitting seat. OAL of the Seal-Lok® hose assembly is measured to the sealing surface of the straight fittings or to the centerline of the elbow fittings	

Box 10: Displacement Angle	
Symbol	**Description**
270	Specified only if two (2) elbow fittings are used. Starting with either end as the far end, measure angle clockwise to describe the displacement angle of the near end

Box 11: Hose Assembly Guards	
Symbol	**Description**
SG =	Spring Guard
HG =	Polyguard
PG =	ParKoil™
FS =	Fire Sleeve
AS =	Partek Sleeving
PS =	Partek Sleeving
Note: When spelling out an assembly part number, list entire sleeving part number	

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What's New?

June 15, 2025

- New 7390 thermal hose now available
- 487CP-4 hose has been approved and is now available

May 22, 2025

- P/N 31382-12-12-dimensional correction - A & B

- P/N 1S926 - hose ID changes
- 811 & 811HT now approved with 43 series crimp fittings

If you have questions about the products contained in this catalog, or their applications, please contact:
Hose Product Division
phone 440 943 5700
www.parker.com/hpd

Extra care is taken in the preparation of this literature, but Parker is not responsible for any inadvertent typographical errors or omissions. Information in this catalog is only accurate as of the date of publication. For a more current information base, please consult the division web site at www.parker.com/hpd

HOSE VISUAL INDEX

GlobalCore	187 14 ISO 18752	387 15 ISO 18752	487 16 ISO 18752
777 17 4,000 psi ISO 18752	722 18 ISO 18752	787 19 ISO 18752	797 20 ISO 18752
Hydraulic – Industry Standard Hose	JK 21 ISO 1436-1 TYPE 2 SN	422 22 ISO 1436-1 TYPE 1SN	482TC 23 ISO 1436-1 TYPE 1SN
482ST 23 ISO 1436-1 TYPE 1SN	426 24 SAE J517 100R1AT	302 25 ISO 1436-1 TYPE 2SN	436 26 ISO 11237 TYPE R16
471TC 27 ISO 11237 TYPE 2SC	471ST 27 ISO 11237 TYPE 2SC	471TC Twin Tough 28 ISO 11237 TYPE 2SC	472TC 29 SAE J1942
722TC 30 ISO 3862-1 TYPE R12	722ST 30 ISO 3862-1 TYPE R12	**Suction & Return Line Hose**	811 31 SAE J517 100R4
811HT 32 SAE J517 100R4	881 32 SAE J517 100R4	**Push-Lok Multipurpose Hose/Thermal**	801 33
836 34 	807 35 	821 36 	821FR 36
627 37 	629 38 	**Phosphate Ester Hose**	424 39
304 40 	774 40 	F42 41 	**Low-Temperature Hose**

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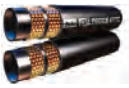
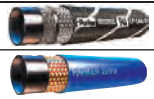
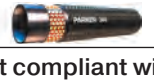
472LT 42 *EN 857 TYPE 2SC*	722LT 43 *ISO 3862-1 TYPE R12*	792LT 43 *SAE J517 100R15*	***Transportation Hose***
293 44 *SAE J1402 AI*	213 45 *SAE J1402 AI*	266 46 *SAE J1402 AII*	201 47 *SAE J517 100R5*
206 48 *SAE J517 100R5*	611HT 49 *SAE J517 100R6*	271 50 *SAE J1402 A*	SS23CG 51 *UL 21*
Alternative/ Marine Hose/ Fuel Line	SS25UL 52 *UL 21 / NFPA 58*	SS25UL-AGA 52 *AS / NZS 1869-2012 CLASS D*	221FR 53 *ISO 7840*
650 54	***Refrigerant Hose***	285 55 *SAE J2064-C*	244 56 *SAE J2064-B CLASS 1*

HOSE OVERVIEW CHART

	Hose Size	Hose Reinforcement	–4	–5	–6	–8	–10	–12	–16	–20	–24	–32	–40	–48	Standard Temp. Range °F	SAE	ISO	EN	Page
GlobalCore	187					1000	1000	1000	1000	1000	1000	1000	1000		–40/+212/ +257		18752		14
	387		3000		3000	3000	3000	3000	3000	3000	3000	3000			–40/+212/ +257		18752		15
	487		4000		4000	4000	4000	4000	4000	4000	4000	4000			–40/+212/ +257		18752		16
	777				4000	4000	4000	4000	4000						–40/+212/ +257		18752		17
	722				4000	4000	4000	4000	4000						–40/+212/ +257		18752		18
	787		5000		5000	5000	5000	5000	5000	5000	5000	5000			–40/+212/ +257		18752		19
	797		6000		6000	6000	6000	6000	6000	6000	6000	6000			–40/+212/ +257		18752		20
Hydraulic – Industry Standard	JK		10500		10000										–40/+120	J517 100R2AT	1436-1-2SN	853-2SN	21
	422		3250	3125	2600	2325	1875	1525	1275	900	725	575			–40/+212	J517 100R1AT/ J1942	1436-1-1SN	853-1SN	22
	482TC/ST		3250	3250	3000	2500	2000	1750	1275						–40/+212	J517 100R1AT/ J1942	1436-1-1SN	853-1SN	23
	426		2750		2250	2000	1500	1250	1000	625	500	375			–50/+302	J517 100R1AT/ J1942			24
	302		5800	5000	4750	4000	3600	3100	2400	1800	1300	1150			–40/+212	J517 100R2AT/ J1942	1436-1-2SN	853-2SN	25
	436				4000	3500	2750	2250	2000						–55/+302	J517 100R16	11237-R16		26
	471TC/ST		5800		5000	4250	3625	3125	2500						–40/+212	J1942	11237-2SC	857-2SC	27
	471TC Twin Tough				5000	4250									–40/+212	J1942	11237-2SC	857-2SC	28
	472TC									2250	1800	1300			–40/+212	J1942			29
	722TC/ST									3000	2500	2500			–40/+257	J517 100R12/ J1942	3862-1-R12	856-R12	30
Suction and Return Line	811/811HT with HC							100	70	50	50	50	62		–40/+212 /+257	J517 100R4/ J1942*			31
	811/811HT with 43/81							300	250	200	150	100	62		–40/+212 /+257	J517 100R4/ J1942*			32
	881 with HC							100	70	50	50	50	62		–40/+257	J517 100R4/ J1942			32
	881 with 43/81/DB							300	250	200	150	100	62		–40/+257	J517 100R4/ J1942			32

HOSE OVERVIEW CHART

	Hose Size	Hose Reinforcement	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	Standard Temp. Range °F	SAE	ISO	EN	Page
Push-Lok - Multipurpose/Thermal	801		350		350	300	300	300	200						-40/+257				33
	836		400		400	400	350	300							-55/+302				35
	807		150		150	150	150	150	100						-40/+202				35
	821		350		300	300	250	250							-40/+212				36
	821FR		350		300	300		250							-40/+212				36
	627				150	150	150	150	150	150	150				-40/ +212				37
	629		150	150											-40/ +212				38
Phosphate Ester	424								1000	625	500	375			-40/+176				39
	304		5000		4000	3500	2750	2250	2000	1625	1250	1125			-40/+176				40
	774							4000	4000	3000	2500	2500			-40/+176				40
	F42					6000		6000	6000	6000					-40/+176				41
Low-Temp	472LT		5800		5000	4250	3625	3125	2500						-70/+212			857-2SC	42
	722LT				4000	4000	4000	4000	4000	3000	2500				-70/+212	J517 100R12	3862-1-R12	856-R12	43
	792LT								6000	6000	6000				-70/+212	J517 100R15	3862-1R15	856-R15	43
Transportation	293		500		500	500	450	450	450						-58/+302	J1402 AI			44
	213		2000	1500	1500	1250	1000	750	400	300	300	200	175		-50/+302	J1402 AI			45
	266		2000	1500	1500	1250	1250	750	400	300	250				-55/+302	J1402 AII			46
	201		3000	3000	2250	2000	1750	1500	800	625	500	350	350	200	-40/+302	J517 100R5/ J1402 AII			47
	206		3000	3000	2250	2000	1750	1500	800	625	500	350	350		-55/+302	J517 100R5/ J1402 AII			48
	611HT		400		400	400	350	300							-55/+302	J517 100R6		854-R6	49
	271				225	225									-50/+212	J1402 A			50
	SS23CG				425	425	425	425							-40/+250				51
Alternative/Marine/Fuel	SS25UL		350	350	350	350	350	350							-40/+250				52
	SS25UL-AGA		350	350	350	350	350	350							-40/+250				52
	221FR			500	500	500	500	500	500						-40/+212	J1527 A Class I/ J1942	7840		53
	650		400	400	400	400	350	300							-40/+257				54
Refrigerant	285		500		500	500	500	500							-22/+257	J2064-C			55
	244								500	500	350				-22/+257	J2064-B Class 1			56

***811 Hose is not compliant with SAE J1942**

HYDRAULIC 187

Parker's GlobalCore 187 Hose provides 1,000 psi (7 MPa) constant working pressure in sizes -8 through -48. Designed and engineered for reliable, lasting performance in high-pressure hydraulic applications, 187 Hose is unmatched in today's marketplace.

- ½ ISO 18752 minimum bend radius (up to -32)
- Low force to flex for ease of installation
- Exceeds ISO 18752 performance specification (AC and AS)
- Synthetic rubber inner tube provides a wider range of fluid compatibility
- TC cover provides 80 times and ST cover 450 times abrasion resistance when compared to standard covers

Performance

187

Hydraulic – Constant Working Pressure
ISO 18752

view on web page

# Part Number 187	Standard Cover 187 ISO 18752	Tough Cover 187TC Performance	Super Tough 187ST	Hose I.D. inch	Hose I.D. mm	Hose O.D. inch	Hose O.D. mm	Working Pressure psi	Working Pressure MPa	Minimum Bend Radius inch	Minimum Bend Radius mm	Weight lbs/ft	Weight kg/m	Vacuum Rating inches of Hg	Vacuum Rating kPa	Crimp Solution Parkrimp 43 Series	Crimp Solution Variable Crimper 43 Series
187-8	AC	AC	AC	1/2	12,5	0.81	21	1000	7,0	2-1/2	65	0.29	0,43	24	80	Link	
187-10	AC	AC	AC	5/8	16,0	0.93	24	1000	7,0	3	75	0.33	0,49	24	80	Link	
187-12	AC	AC	AC	3/4	19,0	1.08	27	1000	7,0	3-1/2	90	0.42	0,63	24	80	Link	
187-16	AC	AC	AC	1	25,0	1.41	36	1000	7,0	4-1/2	114	0.61	0,91	24	80	Link	
187-20	AC	AC	AC	1-1/4	31,5	1.75	44	1000	7,0	5-1/2	140	1.24	1,85	18	60	Link	
187-24	AC	AC	AC	1-1/2	38,0	2.04	52	1000	7,0	9-3/4	248	1.32	1,96	18	60	Link	
187-32	AC	AC	AC	2	51,0	2.54	65	1000	7,0	12-1/2	318	1.75	2,60	18	60	Link	
187-40	AS	AS	AS	2-1/2	63,5	2.97	75	1000	7,0	20	508	2.04	3,04	18	60		Link
187-48	AS	AS	AS	3	76,0	3.54	91	1000	7,0	20	508	2.77	4,12	18	60		Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: One- or two-braided steel wires.

Cover: Standard Cover: Synthetic rubber.
ToughCover: Synthetic rubber abrasion resistant.
SuperTough Cover: Synthetic rubber super abrasion resistant.

Fittings: 43 Series - pg. 83.

Temperature Range: Standard Cover: -40°F to +212°F (-40°C to +100°C).
ToughCover & SuperTough Cover: -40°F to +257°F (-40°C to +125°C).
For -40 & -48 sizes only -40°F to +212°F (-40°C to +100°C).

⚠ WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

HYDRAULIC 387

Parker's GlobalCore 387 Hose provides 3,000 psi (21 MPa) constant working pressure in sizes -4 through -32. With a lightweight, flexible design, 387 Hose improves routing capabilities and maximizes efficiency across sizes and markets.

- ½ ISO 18752 minimum bend radius
- Low force to flex for ease of installation
- Exceeds ISO 18752 performance specification (AC, BC and CC)
- Synthetic rubber inner tube provides a wider range of fluid compatibility
- TC cover provides 80 times and ST cover 450 times abrasion resistance when compared to standard covers

Performance

387

Hydraulic – Constant Working Pressure
ISO 18752

view on web page

# Part Number	Standard Cover	Tough Cover	Super Tough	Critical Protection	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Hg Vacuum Rating		Parkrimp	Parkrimp
	387	387TC	387ST	387CP											inches			
387	ISO 18752 Performance				inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	of Hg	kPa	43 Series	77 Series
387-4	AC	AC	AC		1/4	6,3	0.53	13,4	3000	21,0	2	50	0.16	0,24	24	80	Link	
387-6	AC	AC	AC	AC	3/8	10	0.69	17,4	3000	21,0	2-1/2	65	0.23	0,34	24	80	Link	
387-8	AC	AC	AC	AC	1/2	12,5	0.82	20,7	3000	21,0	3-1/2	90	0.29	0,43	24	80	Link	
387-10	AC	AC	AC		5/8	16	0.94	23,9	3000	21,0	4	100	0.33	0,49	24	80	Link	
387-12	AC	AC	AC	AC	3/4	19	1.10	27,8	3000	21,0	4-3/4	120	0.58	0,86	24	80	Link	
387-16	AC	AC	AC	AC	1	25	1.40	35,4	3000	21,0	6	150	0.79	1,17	24	80	Link	
387-20	BC	CC	CC	CC	1-1/4	31,5	1.82	46,3	3000	21,0	8-1/4	210	1.74	2,59	18	60	Link	Link
387-24	BC	CC	CC		1-1/2	38	2.08	52,8	3000	21,0	10	250	2.01	2,99	18	60		Link
387-32	BC	CC	CC		2	51	2.61	66,2	3000	21,0	12-1/2	320	2.75	4,09	18	60		Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: One-braid steel wire for sizes -4 to -8.
Two-braid steel wire for sizes -10 to -16.
Four-spiral steel wire for sizes -20 to -32.

Cover: Standard Cover: Synthetic rubber.
ToughCover: Synthetic rubber abrasion resistant.
SuperTough Cover: Synthetic rubber super abrasion resistant.

Fittings: 43 Series, sizes -4 to -20 - pg. 83.
77 Series, sizes -20 to -32 - pg. 147.

Temperature Range: Standard Cover: -40°F to +212°F (-40°C to +100°C).
ToughCover & SuperTough Cover: -40°F to +257°F (-40°C to +125°C).

⚠ WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

HYDRAULIC 487

Parker's GlobalCore 487 Hose provides 4,000 psi (28 MPa) constant working pressure in sizes -4 through -32. Constructed for high performance, 487 Hose is designed for easy installation and handling in even the toughest applications. Highly flexible across all sizes, 487 Hose excels in multiple applications around the world.

- ½ ISO 18752 minimum bend radius
- Low force to flex for ease of installation
- Exceeds ISO 18752 performance specification (AC, BC & CC)
- TC cover provides 80 times and ST cover 450 times abrasion resistance when compared to standard covers

Performance

487

Hydraulic – Constant Working Pressure
ISO 18752

view on web page

# Part Number	Standard Cover	Tough Cover	Super Tough	Critical Protection	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp	Parkrimp
	487	487TC	487ST	487CP												
487	ISO 18752 Performance				inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series	77 Series
487-4	AC	AC	AC	AC	1/4	6,3	0.52	13,1	4000	28,0	2	50	0.20	0,30	Link	
487-6	AC	AC	AC	AC	3/8	10	0.68	17,2	4000	28,0	2-1/2	65	0.28	0,42	Link	
487-8	AC	AC	AC	AC	1/2	12,5	0.81	20,4	4000	28,0	3-1/2	90	0.35	0,52	Link	
487-10	AC	AC	AC		5/8	16	0.94	23,9	4000	28,0	4	100	0.44	0,66	Link	
487-12	AC	AC	AC	AC	3/4	19	1.10	27,8	4000	28,0	4-3/4	120	0.58	0,86	Link	
487-16	BC	CC	CC	CC	1	25	1.49	37,8	4000	28,0	6	150	1.34	1,99	Link	
487-20	BC	CC	CC	CC	1-1/4	31,5	1.82	46,3	4000	28,0	8-1/4	210	1.74	2,59		Link
487-24	BC	CC	CC		1-1/2	38	2.03	52,8	4000	28,0	10	250	2.07	3,08		Link
487-32	BC	CC	CC		2	51	2.65	67,3	4000	28,0	12-1/2	320	4.35	6,47		Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Two-braid steel wire for sizes -4 to -12.
Four-spiral steel wire for sizes -16 to -24.
Six-spiral steel wire for size -32.

Cover: Standard Cover: Synthetic rubber.
ToughCover: Synthetic rubber abrasion resistant.
SuperTough Cover: Synthetic rubber super abrasion resistant. Critical Protection Cover: Synthetic rubber excellent abrasion & damage resistance.

Fittings: 43 Series, sizes -4 to -16 - pg. 83.
77 Series, sizes -20 to -32 - pg. 147.

Temperature Range: Standard Cover: -40˚F to +212˚F (-40˚C to +100˚C).
ToughCover & SuperTough Cover: -40˚F to +257˚F (-40˚C to +125˚C).

⚠ WARNING
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HYDRAULIC 777 Hose

Parker's 777 Hose can be used in a wide variety of industries and applications. The reduced outside diameter makes the hose easy to route in compact construction equipment. The reduced weight has a positive effect on refuse vehicles where vehicle weight determines load capacity. Increased flexibility makes it easier to route the hose during installation and performs better on articulating joints.

Performance

1/2 S TC ST CP

777 Hose

4,000 psi, Reduced O.D., Reduced Weight

ISO 18752

view on web page

# Part Number 777	Standard Cover	Tough Cover	Super Tough Cover	Critical Protection Cover	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series
	ISO 18752 Performance				inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
777-6	BC	CC	CC	CC	3/8	10	0.66	17.0	4000	28.0	2.00	50	0.36	0.53	Link
777-8	BC	CC	CC	CC	1/2	12.5	0.81	20.6	4000	28.0	2.80	72	0.44	0.65	Link
777-10	BC	CC	CC		5/8	16	0.93	23.5	4000	28.0	3.15	80	0.56	0.83	Link
777-12	BC	CC	CC	CC	3/4	19	1.12	28.4	4000	28.0	3.80	96	0.76	1.31	Link
777-16	BC	CC	CC	CC	1	25	1.38	35.0	4000	28.0	4.75	120	0.99	1.47	Link

*** Standard cover hose is rated to 212˚ F, Tough Cover and Super Tough covers are rated to 257 ˚ F**
Currently -16 stainless steel fittings are not qualified with 777 hose.

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Four-spiral steel wire.

Cover: Standard Cover: synthetic rubber
ToughCover: synthetic rubber, abrasion resistant
SuperTough Cover: Synthetic rubber, super abrasion resistant
Critical Protection Cover: Synthetic rubber, excellent abrasion, and damage resistance

Fittings: 43 Series - pg. 83.

Temperature Range: Standard Cover: -40°F to +212°F (-40°C to +100°C) - BC
ToughCover, SuperTough Cover & Critical Protection Cover:
-40°F to +257°F (-40°C to +125°C)

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HYDRAULIC 722

Parker's GlobalCore 722 Hose provides 4,000 psi (28 MPa) constant working pressure in sizes -6 through -16. Designed for high-pressure, high-impulse applications, 722 Hose delivers maximum performance and efficiency. The 4-spiral construction of 722 Hose ensures ease of installation while reducing the amount of hose needed for your application.

- ½ ISO 18752 minimum bend radius
- Exceeds ISO 18752 performance specification (BC and CC)
- 4-spiral construction for longer life in high-impulse, heavy-duty cycle applications
- TC cover provides 80 times and ST cover 450 times abrasion resistance when compared to standard covers

Performance

722

Hydraulic – Constant Working Pressure
ISO 18752

view on web page

# Part Number 722	Standard Cover 722	Tough Cover 722TC	Super Tough 722ST	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp
	ISO 18752 Performance			inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series
722-6	BC	CC	CC	3/8	10	0.78	19,9	4000	28,0	2-1/2	65	0.40	0,60	Link
722-8	BC	CC	CC	1/2	12,5	0.89	22,7	4000	28,0	3-1/2	90	0.54	0,80	Link
722-10	BC	CC	CC	5/8	16	1.04	26,4	4000	28,0	4	100	0.74	1,10	Link
722-12	BC	CC	CC	3/4	19	1.21	30,7	4000	28,0	4-3/4	120	0.94	1,40	Link
722-16	BC	CC	CC	1	25	1.50	37,8	4000	28,0	6	150	1.34	1,99	Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Four-spiral steel wire.

Cover: Standard Cover: Synthetic rubber.
ToughCover: Synthetic rubber abrasion resistant.
SuperTough Cover: Synthetic rubber super abrasion resistant.

Fittings: 43 Series - pg. 83.

Temperature Range: Standard Cover: -40˚F to +212˚F (-40˚C to +100˚C) - BC.
ToughCover & SuperTough Cover: -40˚F to +257˚F (-40˚C to +125˚C).

⚠ WARNING
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HYDRAULIC 787

Parker's GlobalCore 787 hose provides 5,000 psi (35 MPa) constant working pressure in sizes -4 through -32. With a Compact Spiral design that offers greater advantages in routing and installation, 787 hose delivers superior performance in a lightweight, force-to-flex product.

- ½ ISO 18752 minimum bend radius
- Meets ISO 18752 performance specification
- Nearly 30% smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested up to 2,000,000 cycles
- Flex impulse tested providing a hose superior in both performance and service life
- Weighs less than SAE spiral hose
- TC cover provides 80 times and ST cover 450 times abrasion resistance when compared to standard covers

Performance

787

Hydraulic – Constant Working Pressure

ISO 18752

view on web page

# Part Number	Standard Cover	Tough Cover	Super Tough Cover	Critical Protection	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp	Parkrimp
	787	787TC	787ST	787CP												
787	ISO 18752 Performance				inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series	77 Series
787-4	AC	AC	AC		1/4	6,3	0.51	13,0	5000	35,0	2	50	0.21	0.31	Link	
787-6	AC	AC	AC	DC	3/8	10	0.68	17,2	5000	35,0	2-1/2	63	0.28	0,42	Link	
787-8	BC	DC	DC	DC	1/2	12,5	0.83	21,1	5000	35,0	3-1/2	90	0.45	0,67		Link
787-10	BC	DC	DC		5/8	16	0.94	23,9	5000	35,0	4	100	0.54	0,80		Link
787-12	BC	DC	DC	DC	3/4	19	1.10	27,9	5000	35,0	4-3/4	120	0.78	1,16		Link
787-16	BC	DC	DC	DC	1	25	1.40	35,7	5000	35,0	6	150	1.17	1,74		Link
787-20	BC	DC	DC	DC	1-1/4	31,5	1.77	44,9	5000	35,0	8-1/4	210	1.95	2,89		Link
787-24	BC	DC	DC		1-1/2	38	2.08	52,8	5000	35,0	10	255	2.66	3,96		Link
787-32	BC	DC	DC		2	51	2.66	67,6	5000	35,0	12-1/2	318	4.37	6,50		Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Proprietary synthetic rubber.

Reinforcement: Two-braid steel wire for sizes -4 to -6, Four- or six-compact spiral steel wires for sizes -8 to -32.

Cover: Standard Cover: Synthetic rubber. ToughCover: Synthetic rubber abrasion resistant. SuperTough Cover: Synthetic rubber super abrasion resistant. Critical Protection Cover: Synthetic rubber excellent abrasion & damage resistance.

Fittings: 43 Series: sizes -4 to -6 - pg. 83. 77 Series: sizes -8 to -32 - pg. 147.

Temperature Range: Standard Cover: -40˚F to +212˚F (-40˚C to +100˚C). ToughCover & SuperTough Cover: -40˚F to +257˚F (-40˚C to +125˚C). (-4 to -6 rated to +212˚F).

⚠ WARNING

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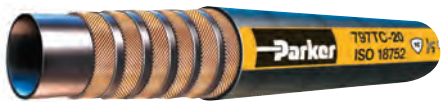
HYDRAULIC 797

Parker's GlobalCore 797 hose provides 6,000 psi (42 MPa) constant working pressure in sizes -4 through -32. Tested up to 2,000,000 cycles, 797 hose provides superior performance and service life with an easy-to-install compact spiral construction for high-pressure, high-impulse applications.

- Meets ISO 18752 performance specification
- Nearly 30% smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested up to 2,000,000 cycles
- Flex impulse tested providing a hose superior in both performance and service life
- Weighs less than SAE spiral hose
- TC cover provides 80 times and ST cover 450 times abrasion resistance when compared to standard covers

Performance



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797

Hydraulic – Constant Working Pressure

ISO 18752

# Part Number	Standard Cover	Tough Cover	Super Tough Cover	Critical Protection	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp	Parkrimp
	797	797TC	797ST	797CP												
797	ISO 18752 Performance				inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series	77 Series
797-4	AC	AC	AC		1/4	6,3	0.51	13,0	6000	42,0	2	50	0.21	0,31	Link	
797-6	BC	CC	CC	DC	3/8	10	0.66	17,0	6000	42,0	2-1/2	63	0.31	0,46	Link	
797-8	BC	DC	DC	DC	1/2	12,5	0.83	21,1	6000	42,0	4	100	0.45	0,67		Link
797-10	BC	DC	DC		5/8	16	0.94	23,9	6000	42,0	4-1/2	115	0.54	0,80		Link
797-12	BC	DC	DC	DC	3/4	19	1.10	27,9	6000	42,0	5-1/4	135	0.78	1,16		Link
797-16	BC	DC	DC	DC	1	25	1.40	35,7	6000	42,0	6-1/2	165	1.17	1,74		Link
797-20	BC	DC	DC	DC	1-1/4	31,5	1.77	44,9	6000	42,0	8-3/4	225	1.95	2,89		Link
797-24	BC	CC	CC		1-1/2	38	2.08	52,8	6000	42,0	12	305	2.66	3,96		Link
797-32	BC	CC	CC		2	51	2.66	67,6	6000	42,0	15	380	4.37	6,50		Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Proprietary synthetic rubber.

Reinforcement: Two-braid steel wire for size -4, Four- or six-compact spiral steel wires for sizes -6 to -32.

Cover: Standard Cover: Synthetic rubber. ToughCover: Synthetic rubber abrasion resistant. SuperTough Cover: Synthetic rubber super abrasion resistant. Critical Protection Cover: Synthetic rubber excellent abrasion & damage resistance.

Fittings: 43 Series: sizes -4 to -6 - pg. 83. 77 Series: sizes -8 to -32 - pg. 147.

Temperature Range: Standard Cover: -40˚F to +212˚F (-40˚C to +100˚C). ToughCover & SuperTough Cover: -40˚F to +257˚F (-40˚C to +125˚C). (-4 rated to +212˚F).

⚠ WARNING

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HYDRAULIC JK – Jack Hose

Parker Jack Hose should be your choice for use on hydraulically powered jacking equipment. From its engineered inner tube, and twin braids of high-tensile steel reinforcement, to its durable outer cover, our hydraulic Jack Hose has been designed for high performance, easily supporting the rigors of high tonnage hydraulic jack applications. Jack Hose comes with the added benefits of the world's largest distributor network and Parker's unequalled technical services.

- 10,500 max working pressure
- Engineered inner tube provides exceptional hydraulic fluid compatibility
- No-Skive design eliminates the need to remove hose cover before crimping

view on web page

JK

Hydraulic – Jack Hose

ISO 1436-1 TYPE 2SN / SAE J517 100R2AT / EN 853 TYPE 2SN / NFPA 1936 / EES 116-4

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
JK-4	1/4	6,3	0.59	15	10500	72,4	4	100	0.26	0,39	Link
JK-6	3/8	10	0.75	19	10000	70	5	125	0.37	0,55	Link

NOTE: THIS PRODUCT CAN ONLY BE ASSEMBLED BY CERTIFIED DISTRIBUTORS ACCORDING TO THE METHODS PRESCRIBED IN BULLETIN 4480-T18-US. JK HOSE HAS A 2:1 DESIGN FACTOR.

Application: Petroleum base hydraulic fluids and lubricating oils.
Inner Tube: Synthetic rubber.
Reinforcement: Two braids steel wire.
Cover: Synthetic rubber, MSHA accepted.
Temperature Range: -40°F to +120°F (-40°C to +49°C).
Fittings: 10143-4-4, 10143-4-6, 10143-6-4, 10143-6-6 pg. 86.

- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING
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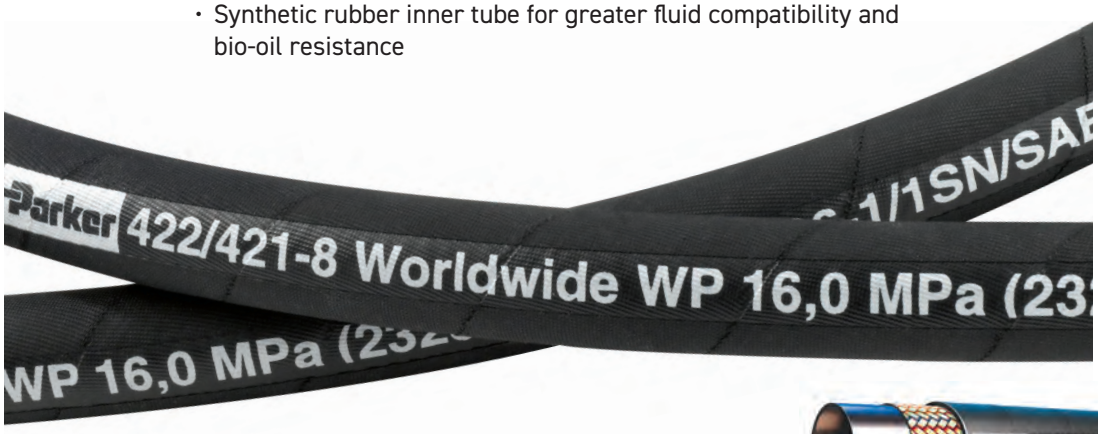
HYDRAULIC 422

Parker's worldwide hose line is designed to accommodate global customer requirements. Manufactured to strict international specifications, 422 hose offers customers consistency of performance combined with improved availability anywhere in the world.

- One-wire braid hose design manufactured to international specifications (ISO 1436-1 Type 1SN)
- Increased working pressures for improved reliability and expanded applications versus standard SAE 100R1
- Synthetic rubber inner tube for greater fluid compatibility and bio-oil resistance



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422

Hydraulic Worldwide

ISO 1436-1 TYPE 1SN / SAE J517 100R1AT / SAE J1942 / EN 853 TYPE 1SN

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	43 Series	42 Series
422-4	1/4	6,3	0.53	13	3250	22,5	4	100	0.16	0,24	24	81	Link	Link
422-5	5/16	6,3	0.59	15	3125	21,5	4-1/2	115	0.18	0,27	24	81	Link	Link
422-6	3/8	10	0.68	17	2600	18,0	5	130	0.23	0,34	24	81	Link	Link
422-8	1/2	12,5	0.81	21	2325	16,0	7	180	0.29	0,43	24	81	Link	Link
422-12	3/4	19	1.09	28	1525	10,5	9-1/2	240	0.42	0,63	24	81	Link	Link
422-16	1	25	1.41	36	1275	8,8	12	300	0.63	0,94	24	81	Link	Link
422-20	1-1/4	31,5	1.79	45	900	6,3	16-1/2	420	0.8	1,19	18	61	Link	
422-24	1-1/2	38	2	51	725	5,0	20	500	1	1,49	18	61	Link	
422-32	2	51	2.54	64	575	4,0	25	630	1.5	2,24	18	61	Link	Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: One braid steel wire.

Cover: Synthetic rubber.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Fittings: 43 Series - pg. 83.
42 Series - pg. 225.

- *Field Attachable Assembly Instructions are in Section 2 with each Fittings Series.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING

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HYDRAULIC 482TC/ST

Parker's 482 hose is a hydraulic industry standard hose that has a pressure range of 1275-3250 psi, with a synthetic rubber inner tube which provides wide fluid compatibility.

- 1/2 minimum bend radius for ease of routing
- Meets SAE 100R1 specification

Performance

1/2 TC ST

482TC

Hydraulic – ToughCover

ISO 1436-1 TYPE 1SN / SAE J517 100R1AT / SAE J1942 / EN 853 TYPE 1SN

view on web page

482ST

Hydraulic – SuperTough Cover

ISO 1436-1 TYPE 1SN / SAE J517 100R1AT / EN 853 TYPE 1SN

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series	Field Attachable 42 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
482TC/ST-4	1/4	6,3	0.53	14	3250	22,7	2	50	0.16	0,24	Link	Link
482TC-5	5/16	8	0.59	15	3250	22,7	2-1/4	55	0.18	0,27	Link	Link
482TC/ST-6	3/8	10	0.69	17	3000	21,0	2-1/2	65	0.23	0,34	Link	Link
482TC/ST-8	1/2	12,5	0.82	21	2500	17,5	3-1/2	90	0.29	0,43	Link	Link
482TC/ST-12	3/4	19	1.09	28	1750	12,2	4-3/4	120	0.42	0,63	Link	Link
482TC/ST-16	1	25	1.41	36	1275	8,8	6	150	0.63	0,94	Link	Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: One braid steel wire.

Cover: Synthetic rubber abrasion resistant, MSHA accepted.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Fittings: 43 Series - pg. 83.
42 Series - pg. 225.

- *Field Attachable Assembly Instructions are in Section 2 with each Fittings Series.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

HYDRAULIC 426

Parker's 426 hose is a hydraulic industry standard hose that has a pressure range of 375-2750 psi, which is designed for high-temperature applications up to 302°F. The 426 hose is designed, built, and tested to meet SAE J517 100R1AT and SAE J1942 specifications.

- Engine compartment applications
- Meets SAE 100R1 specification
- Distinctive blue cover indicates high temperature rating
- Temperature up to 302° F

Performance

view on web page

426

Hydraulic – High-Temperature

SAE J517 100R1AT / SAE J1942

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series
426-4	1/4	6,3	0.53	13	2750	19,2	4	100	0.16	0,24	Link
426-6	3/8	10	0.68	17	2250	15,7	5	125	0.23	0,34	Link
426-8	1/2	12,5	0.81	21	2000	14,0	7	180	0.29	0,43	Link
426-12	3/4	19	1.09	28	1250	8,7	9-1/2	240	0.44	0,65	Link
426-16	1	25	1.40	36	1000	7,0	12	300	0.66	0,98	Link
426-20	1-1/4	31,5	1.79	45	625	4,3	16-1/2	420	0.94	1,40	Link
426-24	1-1/2	38	2.00	51	500	3,5	20	500	0.98	1,46	Link
426-32	2	51	2.54	64	375	2,6	25	630	1.46	2,18	Link

Application: Petroleum base hydraulic fluids and lubricating oils.
Inner Tube: PKR®.
Reinforcement: One braid steel wire.
Cover: PKR®. rubber, blue, MSHA accepted.
Temperature Range: -50°F to +302°F (-46°C to +150°C).
Fittings: 43 Series - pg. 83.

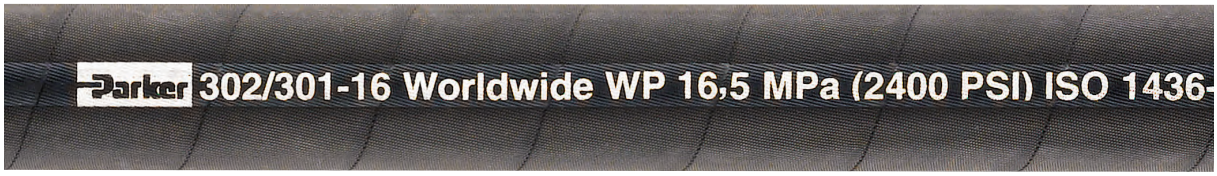
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

HYDRAULIC 302

Parker's 302 hose, a universal two-wire construction hose designed to accommodate global customer requirements, is manufactured to strict international quality specifications. Parker's 302 offers customers consistency of performance combined with continuous availability anywhere in the world. It offers a high working pressure, long service life and a wide fluid compatibility.

- Universal two-wire hose design manufactured to international specifications (ISO 1436-1 Type 2SN)
- Increased working pressures for improved reliability and expanded applications
- Synthetic rubber inner tube for greater fluid compatibility and bio-oil resistance



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302

Hydraulic Worldwide

ISO 1436-1 TYPE 2SN / SAE J517 100R2AT / SAE J1942 / EN 853 TYPE 2SN

# Part Number	Hose ID		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Hg Vacuum Rating		Parkrimp 43 Series	Field Attachable 30 Series
	inch	mm	inch	mm	psi	Mpa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa		
302-4	1/4	6,3	0.59	15,0	5800	40	4	100	0.26	0,39	28	95	Link	Link
302-5	5/16	8	0.65	16,6	5000	35	4-1/2	115	0.28	0,42	28	95	Link	
302-6	3/8	10	0.75	19,0	4750	33	5	130	0.37	0,55	28	95	Link	Link
302-8	1/2	12,5	0.88	22,3	4000	28	7	180	0.45	0,67	28	95	Link	Link
302-12	3/4	19	1.16	29,4	3100	21,5	9-1/2	240	0.67	1,00	24	80	Link	Link
302-16	1	25	1.50	38,1	2400	16,5	12	300	1.00	1,49	24	80	Link	Link
302-20	1-1/4	31,5	1.86	47,1	1800	12,5	16-1/2	420	1.16	1,73	24	80	Link	Link
302-24	1-1/2	38	2.14	54,5	1300	9	20	500	1.44	2,14	24	80	Link	Link
302-32	2	51	2.64	67,2	1150	8	25	630	1.99	2,96	24	80	Link	Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Two braids steel wire.

Cover: Synthetic rubber.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Fittings: 43 Series - pg. 83.
30 Series - pg. 219.

- *Field Attachable Assembly Instructions are in Section 2 with each Fittings Series.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

HYDRAULIC 436

With one-half the minimum SAE bend radius and a smaller hose O.D., 436 hose has the flexibility to work in almost any application – including tight spots. Engineered to withstand high pressure within a wide range of working temperatures, Parker's 436 hose is not only versatile, but dependable over a long hose life. For quality, service, and value, there's simply no match.

- Compact construction provides easier routing
- Temperatures up to 302° F
- Distinctive blue cover indicates high temperature capability
- Reduced bend radius and excellent flexibility
- 2-wire braided reinforcement with smaller construction
- Meets SAE 100R16 / ISO 11237 Type R16 specifications

Performance

436

Hydraulic – Compact High Temperature

ISO 11237 TYPE R16 / SAE J517 100R16

BLU BLK

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series	Field Attachable 42 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
436-6	3/8	10	0.68	17	4000	27,5	2-1/2	65	0.28	0,42	Link	Link
436-8	1/2	12,5	0.81	21	3500	24	3-1/2	90	0.34	0,51	Link	Link
436-10	5/8	16	0.94	24	2750	19	4	100	0.44	0,66	Link	Link
436-12	3/4	19	1.09	28	2250	15,5	4-3/4	120	0.54	0,80	Link	Link
436-16	1	25	1.41	36	2000	13,8	6	150	0.82	1,22	Link	Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: PKR®.

Reinforcement: Two braids steel wire.

Cover: PKR® rubber, blue, MSHA accepted.

Temperature Range: -55°F to +302°F (-48°C to +150°C).

Fittings: 43 Series - pg. 83.
42 Series - pg. 225.

- *Field Attachable Assembly Instructions are in Section 2 with each Fittings Series.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING

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HYDRAULIC 471TC/ST

Parker's 471TC/ST hose is a hydraulic industry standard hose that has a pressure range of 2500-5800 psi, with a synthetic rubber inner tube which provides wide fluid compatibility. The two-wire braided construction offers more flexibility than the standard spiral counterpart in order to fit your needs.

- Smaller O.D. for ease of installation
- Approved with 43 Series fittings
- Provides 1/2 minimum bend radius

Performance

1/2 TC ST

471TC

Hydraulic – ToughCover

ISO 11237 TYPE 2SC / SAE J1942 / EN 857 TYPE 2SC

view on web page

471ST

Hydraulic – SuperTough Cover

ISO 11237 TYPE 2SC / SAE J1942 / EN 857 TYPE 2SC

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	43 Series
471TC/ST-4	1/4	6,3	0.51	13	5800	40,0	2	50	0.20	0,30	28	95	Link
471TC/ST-6	3/8	10	0.68	17	5000	35,0	2-1/2	65	0.28	0,42	28	95	Link
471TC/ST-8	1/2	12,5	0.80	20	4250	29,7	3-1/2	90	0.35	0,52	28	95	Link
471TC/ST-10	5/8	16	0.94	24	3625	25,0	4	100	0.44	0,66	28	95	Link
471TC/ST-12	3/4	19	1.09	28	3125	21,5	4-3/4	120	0.58	0,86	24	80	Link
471TC/ST-16	1	25	1.40	35	2500	17,5	6	150	0.79	1,17	24	80	Link

For larger sizes see 472TC.

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Two braids steel wire.

Cover: Synthetic rubber abrasion resistant, MSHA accepted.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Fittings: 43 Series - pg. 83.

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

HYDRAULIC 471TC Twin Tough

Twin Tough hoses eliminate the labor and material costs required to manually bundle two separate hoses using tie straps or plastic sleeves. Plus, Parker's Twin Tough saves valuable time in the field.

- 5000 psi constant working pressure in -6-6 and 4000 psi in -8-8
- Two-wire braided construction
- Abrasion-resistant TC cover

Performance

view on web page

471TC

Hydraulic – Twin Tough Cover

ISO 11237 TYPE 2SC / SAE J1942 / EN 857 TYPE 2SC

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series
471TC-6-6	3/8	10	0.68	17	5000	35,0	2-1/2	65	0.56	0,84	Link
471TC-8-8	1/2	12,5	0.80	20	4250	29,7	3-1/2	90	0.70	1,04	Link

For assembly instructions see page 268.

Application: Petroleum base hydraulic fluids and lubricating oils.
Inner Tube: Synthetic rubber.
Reinforcement: Two braids steel wire.
Cover: Synthetic rubber abrasion resistant, MSHA accepted.
Temperature Range: -40°F to +212°F (-40°C to +100°C).
Fittings: 43 Series - pg. 83.

- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING
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HYDRAULIC 472TC

Parker's 472TC hose is a hydraulic industry standard hose that has a pressure range of 1300-2250 psi, which allows for one to meet the specifications of any task at hand. The 472TC is designed, built, and tested to meet SAE J1942 specifications. The two-wire braided construction offers more flexibility than the standard spiral counterpart in order to fit your needs. The synthetic rubber inner tube provides a wide range of fluid compatibility.

- Synthetic rubber inner tube provides wide fluid compatibility
- Available in larger sizes: -20, -24, -32
- 2-wire braided construction

Performance

TC

472TC

Hydraulic – ToughCover

SAE J1942

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
472TC-20	1-1/4	31,5	1.79	45	2250	15,7	8-1/4	210	1.34	2,01	Link
472TC-24	1-1/2	38	2.01	51	1800	12,5	10	250	1.44	2,16	Link
472TC-32	2	51	2.54	65	1300	9,0	12-1/2	315	1.93	2,90	Link

Application: Petroleum base hydraulic fluids and lubricating oils.
Inner Tube: Synthetic rubber.
Reinforcement: Two braids steel wire.
Cover: Synthetic rubber abrasion resistant, MSHA accepted.
Temperature Range: -40°F to +212°F (-40°C to +100°C).
Fittings: 43 Series - pg. 83.

- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

WARNING
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HYDRAULIC 722TC / ST

722TC / ST hose was designed for high performance. Its resilient 4-wire spiral construction and Parker's leading ToughCover and SuperTough Covers provide unmatched abrasion resistance. It is also one-half the bend radius of SAE 100R12 hose, making it easy to install and reducing the amount of hose needed and its synthetic rubber inner tube provides a wider range of fluid compatibility.

- 1/2 the bend radius of SAE 100R12 hose, reducing the amount of hose needed to make your connection
- 4-spiral construction for longer lasting hose in high impulse, heavy duty cycle applications
- Synthetic rubber inner tube provides a wider range of fluid compatibility

Performance

1/2 TC ST

view on web page

view on web page

722TC / ST

Hydraulic – ToughCover

ISO 3862-1 TYPE R12 / SAE J517 100R12 / SAE J1942 / EN 856 TYPE R12

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series	Parkrimp 71 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
722TC/ST-20	1-1/4	31,4	1.84	46	3000	21,0	8-1/4	210	1.74	2,59	Link	
722TC/ST-24	1-1/2	38	2.07	53	2500	17,5	10	250	2.01	2,99		Link
722TC/ST-32	2	51	2.59	66	2500	17,5	12-1/2	320	2.75	4,09		Link

Application: Petroleum base hydraulic fluids and lubricating oils.
Inner Tube: Synthetic rubber.
Reinforcement: Four spiral steel wire.
Cover: Synthetic rubber, MSHA accepted.
Temperature Range: -40ºF to +257ºF (-40ºC to 125ºC).
Fittings: 43 Series, sizes -6 to -20 - pg. 83.
71 Series, size -24 to -32 - pg. 132

- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

SUCTION & RETURN

811, 811HT, 881 Suction Line

Parker's 811 and 881 are suction and return line hoses that have a working pressure range of 62-300 psi as well as a vacuum rating range of 25 to 28 in/Hg. The 811HT is designed for high temperature applications.

- Up to one-half the SAE minimum bend radius for standard and high-temperature applications
- Meets or exceeds SAE 100R4 performance specifications
- Compatible with Parkrimp or field attachable fittings
- High-visibility layline
- Suitable for vacuum applications from 25 to 28 in/Hg
- Oil- and weather-resistant synthetic rubber cover
- High-temperature range for petroleum-based hydraulic fluids of -40° F to +257° F for 811HT

Performance

1/2

811
Suction and Return Line
1/2 SAE Minimum Bend Radius
SAE J517 100R4

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure 81/88DB		Working Pressure 88HC		Minimum Bend Radius		Weight		Vacuum Rating inches of Hg	Vacuum Rating kPa	Parkrimp 43/81 Series	Field Attachable 88 Series w/HC or DB
	inch	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m				
811-12	3/4	19,0	1.18	30,0	300	2,1	100	0,7	2-1/2	64	0.42	0,63	25	84	Link	Link
811-16	1	25,4	1.50	38,0	250	1,7	70	0,5	3	76	0.65	0,96	25	84	Link	Link
811-20	1-1/4	31,8	1.77	45,0	200	1,4	50	0,3	4	102	0.82	1,22	25	84	Link	Link
811-24	1-1/2	38,1	2.05	52,0	150	1	50	0,3	5	127	1.04	1,55	25	84	Link	Link
811-32	2	50,8	2.50	63,6	100	0,7	50	0,3	6	152	1.26	1,87	25	84	Link	Link
811-40	2-1/2	63,5	3.00	76,2	62	0,4	62	0,4	7	178	1.64	2,45	25	84		Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Multiple layers of fiber spiral and one helical wire.

Cover: Synthetic rubber.

Temperature Range: -40°F to +212°F (-40°C to +100°C).

Fittings: 43 Series - pg. 83.
81 Series - pg. 245.
88 Series - pg. 245.

- *Field Attachable Assembly Instructions are in Section 2 with each Fittings Series.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING
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Performance

1/2

811HT

Suction and Return Line – High-Temperature 1/2 SAE Minimum Bend Radius

SAE J517 100R4 / SAE J1942

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure 81/88DB		Working Pressure 88HC		Minimum Bend Radius		Weight		Vacuum Rating inches of Hg	Vacuum Rating kPa	Parkrimp 43/81 Series	Field Attachable 88 Series w/HC or DB
	inc	mm	inch	mm	psi	MPa	psi	MPa	inch	mm	lbs/ft	kg/m				
811HT-12	3/4	19,0	1.18	30,0	300	2,1	100	0,7	2-1/2	64	0.42	0,63	28	95	Link	Link
811HT-16	1	25,4	1.50	38,0	250	1,7	70	0,5	3	76	0.65	0,96	28	95	Link	Link
811HT-20	1-1/4	31,8	1.77	45,0	200	1,4	50	0,3	4	102	0.82	1,22	28	95	Link	Link
811HT-24	1-1/2	38,1	2.05	52,0	150	1	50	0,3	5	127	1.04	1,55	28	95	Link	Link
811HT-32	2	50,8	2.50	63,6	100	0,7	50	0,3	6	152	1.26	1,87	28	95	Link	Link
811HT-40	2-1/2	63,5	3.00	76,2	62	0,4	62	0,4	7	178	1.82	2,71	28	95		Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Multiple layers of fiber spiral and one helical wire.

Cover: Synthetic rubber, MSHA accepted.

Temperature Range: -50°F to +257°F (-46°C to +125°C).

Fittings: 43 Series - pg. 83.
81 Series - pg. 245
88 Series - pg. 245

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

881

Suction and Return Line

SAE J517 100R4 / SAE J1942

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure 43/81/88DB		Working Pressure 88HC		Minimum Bend Radius		Weight		Vacuum Rating inches of Hg	Vacuum Rating kPa	Parkrimp 43/81 Series	Field Attachable 88 Series w/HC or DB
	inch	mm	inch	mm	psi	MPa	psi	Mpa	inch	mm	lbs/ft	kg/m				
881-12	3/4	19,0	1.20	30,6	300	2,1	100	0,7	5	127	0.50	0,74	28	95	Link	Link
881-16	1	25,4	1.49	37,9	250	1,7	70	0,5	6	152	0.60	0,89	28	95	Link	Link
881-20	1-1/4	31,8	1.78	45,3	200	1,4	50	0,3	8	203	0.89	1,32	28	95	Link	Link
881-24	1-1/2	38,1	2.06	52,4	150	1	50	0,3	10	254	1.11	1,65	28	95	Link	Link
881-32	2	50,8	2.48	63,1	100	0,7	50	0,3	12	305	1.27	1,89	28	95	Link	Link
881-40	2-1/2	63,5	3.00	76,2	62	0,4	62	0,4	14	356	1.82	2,71	28	95		Link

*Only sizes -12 through -32 meet J1942/USCG H, HF.

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Multiple layers of fiber braid and one helical wire.

Cover: Synthetic rubber, MSHA accepted.

Temperature Range: -40°F to +257°F (-40°C to +125°C).

Fittings: 43 Series - pg. 83.
81 Series - pg. 245.
88 Series - pg. 245.

- *Field Attachable Assembly Instructions are in Section 2 with each Fittings Series.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING

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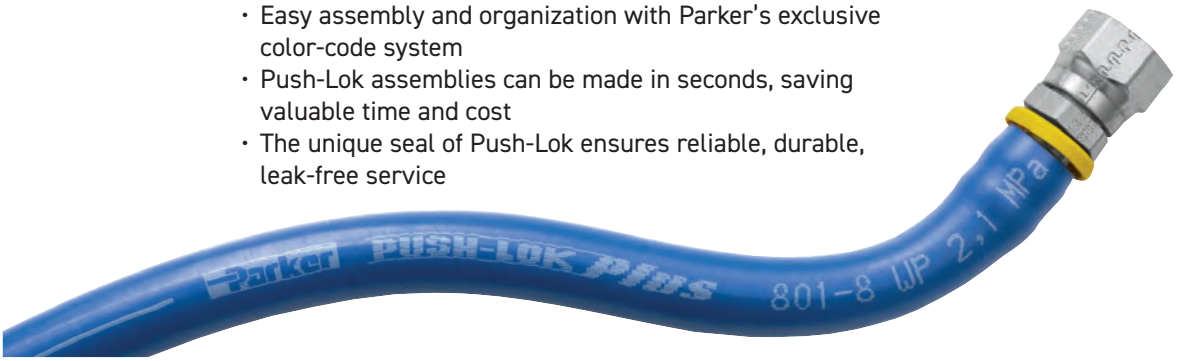
PUSH-LOK®
THERMAL

801 Multipurpose

Parker's Push-Lok Plus multipurpose hose line features the widest fluid compatibility, application range and size range in the industry. It also incorporates the highest working pressure in all sizes, making it the most versatile general-purpose hose available. The Push-Lok system is easy to use. No clamps or special tools are required during installation. And with Parker's exclusive color-code system, you can inventory, maintain and identify your hose needs easily and efficiently. The industry's most complete line of low-pressure 801, 807 hose and fittings, Push-Lok offers the range and versatility to meet all your instrumentation needs.

- Easy assembly and organization with Parker's exclusive color-code system
- Push-Lok assemblies can be made in seconds, saving valuable time and cost
- The unique seal of Push-Lok ensures reliable, durable, leak-free service



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801 – Push-Lok Plus®

Multipurpose

Available Cover Colors: GRA RED YEL BLU GRN BLK

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating inches of Hg	Vacuum Rating kPa	Parkrimp HY Series	Field Attachable 82 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m				
801-4	1/4	6,3	0.50	12,7	350	2,4	2-1/2	65	0.09	0,13	28	95	Link	Link
801-6	3/8	10	0.63	15,9	350	2,4	3	75	0.11	0,16	28	95	Link	Link
801-8	1/2	12,5	0.78	19,8	300	2,1	5	125	0.18	0,27	28	95	Link	Link
801-10	5/8	16	0.91	23,0	300	2,1	6	150	0.19	0,28	15	51	Link	Link
801-12	3/4	19	1.03	26,2	300	2,1	7	180	0.24	0,36	15	51	Link	Link
801-16	1	25	1.28	32,6	200	1,4	10	250	0.37	0,55	15	51	Link	Link

Application: Pneumatic, petroleum base hydraulic fluid, lubricating oils, and antifreeze solutions (not suitable for dry air applications).

Diesel fuels: Approved only when coupled with HY Series fittings.

Inner Tube: Synthetic rubber.

Reinforcement: One fiber braid.

Cover: Synthetic rubber, MSHA accepted.

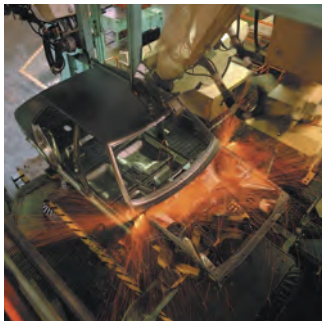
Temperature Range:

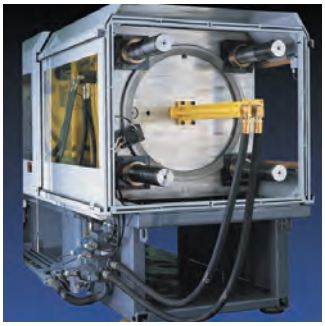
Air: +158˚F (+70˚C).
Water: +185˚F (+85˚C).
Oil: -40˚F to 257˚F (-40˚C to +125˚C).

Fittings: 82 Series - pg. 230.
HY Series - pg. 185.

- *Field Attachable Assembly Instructions are in Section 2 with each Fittings Series.*
- *Push-Lok is not recommended for any refrigerant, or for use in air conditioners and heat pump applications.*
- *Push-Lok is not recommended for applications where extreme pulsation is encountered.*
- *Temperature Range of other media listed in Section 18.*
- *801 hose is not approved with any HY Series stainless steel fittings.*

⚠ WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.





Push-Lok Plus 801 hose provides the quick and easy assembly/disassembly advantage and the fullest range of color-coding to benefit your operations. It's now approved with both 82 Series push on and HY Series crimp fittings.

Push-Lok Plus 807 hose features quick and easy assembly and provides an EPDM inner-tube for hot water, dry air and phosphate ester fluids. Not to be used in applications with lubricated air or media that is oil based.

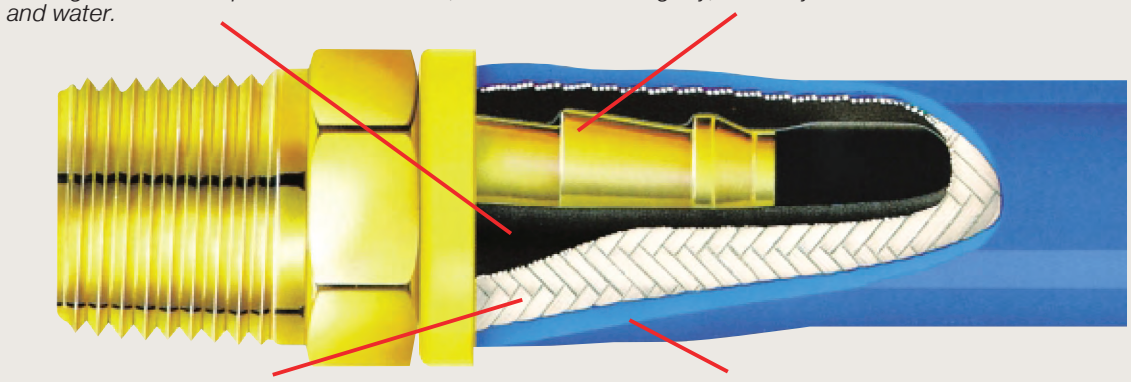
Push-Lok 821 is a higher-pressure multipurpose hose that is widely used for shop air systems and general industrial and maintenance applications. Approved with 82 Series fittings, it's also available with a fire-resistant (FR) cover for use near welding operations.

Push-Lok Plus 836 delivers high-temperature up to 302° F, heat-resistant performance and higher working pressures than 821, along with the same HY and 82 Series fittings compatibility.

The color-coded advantages

In applications where a number of hose lines carry different media, Push-Lok colors reduce timely "tracing" of lines, preventing disconnection of the wrong line and unnecessary, costly downtime. Using color-coded Push-Lok hose is an excellent way to:

- Enhance product appearance
- Improve inventory control
- Identify industrial drop lines



PUSH-LOK® THERMAL

836, 807 Multipurpose

Performance

836 – Push-Lok Plus®

Multipurpose – High-Temperature

Available Cover Colors: BLU BLK

view on web page

# Part Number	Hose I.D. inch	Hose I.D. mm	Hose O.D. inch	Hose O.D. mm	Working Pressure psi	Working Pressure MPa	Minimum Bend Radius inch	Minimum Bend Radius mm	Weight lbs/ft	Weight kg/m	Vacuum Rating inches of Hg	Vacuum Rating kPa	Parkrimp HY Series	Field Attachable 82 Series
836-4	1/4	6,3	0.50	12,7	400	2,8	2-1/2	65	0.09	0,13	28	95	Link	Link
836-6	3/8	10	0.63	15,9	400	2,8	3	75	0.11	0,16	28	95	Link	Link
836-8	1/2	12,5	0.78	19,8	400	2,8	4	100	0.18	0,27	28	95	Link	Link
836-10	5/8	16	0.91	23,0	350	2,4	5	125	0.19	0,28	18	61	Link	Link
836-12	3/4	19	1.03	26,2	300	2,1	6	150	0.24	0,36	18	61	Link	Link

Application: Pneumatic, petroleum base hydraulic fluid, lubricating oils, diesel fuels and antifreeze solutions.

Inner Tube: PKR®.

Reinforcement: One fiber braid.

Cover: PKR, MSHA accepted.

Temperature Range:

Air: +212˚F (+100˚C).
Water: +185˚F (+85˚C).
Oil: -55˚F to +302˚F (-48˚C to +150˚C).

Diesel fuels: -40˚C to 150˚C.(-40˚F to 302˚F) with HY crimps only.

Fittings: HY Series - pg. 185.
82 Series - pg. 230.

⚠ WARNING

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807 – Push-Lok

EPDM-P Hose

Available Cover Colors: BLK RED BLU

view on web page

# Part Number	Hose I.D. inch	Hose I.D. mm	Hose O.D. inch	Hose O.D. mm	Minimum Bend Radius inch	Minimum Bend Radius mm	Weight lbs/ft	Weight kg/m	Working Pressure psi	Working Pressure (bar)	82 Series Cplg Rec	Nom Std Pack Qty	Pkg Type
807-4-RL	1/4	6.4	0.48	12.1	1.0	25.4	0.08	0.12	150	10.3	Link	600 ft	Reel
807-6-RL	3/8	9.5	0.63	15.9	1.5	38.1	0.11	0.17	150	10.3	Link	450 ft	Reel
807-8-RL	1/2	12.7	0.81	20.6	2.8	69.9	0.17	.025	150	10.3	Link	300 ft	Reel
807-10-RL	5/8	15.9	0.91	23.1	3.5	88.9	0.20	0.30	150	10.3	Link	250 ft	Reel
807-12-RL	3/4	19.1	1.05	26.7	4.5	114.3	0.25	0.37	150	10.3	Link	200 ft	Reel
807-16-RL	1	25.4	1.28	32.6	6.5	165.1	0.31	0.46	100	6.9	Link	150 ft	Reel

Tube: Black EPDM, peroxide cured

Reinforcement: One fiber braid

Cover: Black, red, and blue, synthetic rubber; smooth finish

Temperature Range: -40°F to +212°F (-40°C to +100°C)

Air: +158°F (+70°C); **Phosphate Ester:** -40° to +176°F (-40° to +80°C)

Brand Method: White ink

Brand Example: Parker 807-16 PUSH-LOK EPDM-P WP 1MPa (100 psi) 25,4mm (1”) UL94 V-0 HOSE COVER MADE IN USA

Design Factor: 4:1

Industry Standards: UL94 V-0 Flame Resistance Rating

Application: DI water and glycol based coolant solutions, air (and dry air) and phosphate ester

Vacuum: 15 in hg (sizes -4 thru -12); 10 in hg (size -16)

Couplings: Designed to be used with 82 series fittings

⚠ WARNING

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PUSH-LOK® THERMAL 821, 821FR Multipurpose

821

Multipurpose

Available Cover Colors: BLK

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	82 Series
821-4	1/4	6,3	0.50	12,7	350	2,4	2-1/2	64	0.06	0,09	28	95	Link
821-6	3/8	10	0.63	15,9	300	2,1	3	76	0.09	0,13	28	95	Link
821-8	1/2	12,5	0.78	19,8	300	2,1	5	127	0.12	0,18	28	95	Link
821-10	5/8	16	0.91	23,0	250	1,7	6	152	0.19	0,28	28	95	Link
821-12	3/4	19	1.03	26,2	250	1,7	7	178	0.21	0,31	28	95	Link

Application: Pneumatic, petroleum base hydraulic fluid, lubricating oils and antifreeze solutions (not suitable for dry air applications).

Inner Tube: Synthetic rubber.

Reinforcement: One fiber braid.

Cover: Fiber braid.

Temperature Range:

Air: +158˚F (+70˚C).
Water: +185˚F (+85˚C).
Oil: -40˚F to +212˚F. (-40˚C to +100˚C).

Fittings: 82 Series - pg. 230.

⚠ WARNING

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821FR

Multipurpose – Fire-Resistant Cover

Available Cover Colors: WHT BRN BLU GRN BLK

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	82 Series
821FR-4	1/4	6,3	0.50	12,7	350	2,4	2-1/2	64	0.08	0,12	28	95	Link
821FR-6	3/8	10	0.63	15,9	300	2,1	3	76	0.11	0,16	28	95	Link
821FR-8	1/2	12,5	0.78	19,8	300	2,1	5	127	0.12	0,18	28	95	Link
821FR-12	3/4	19	1.03	26,2	250	1,7	7	178	0.22	0,33	28	95	Link

Application: Pneumatic, petroleum base hydraulic fluid, lubricating oils and antifreeze solutions.

Inner Tube: PKR®.

Reinforcement: One fiber braid.

Cover: Fire resistant fiber braid.

Hose cover colors include: White, Brown, Blue, Green, and Black.

Temperature Range:

Air: +212˚F (+100˚C).
Water: +185˚F (+85˚C).
Oil: -40˚F to +212˚F (-40˚C to +100˚C).

- *Field Attachable Assembly Instructions are in Section 2 with each Fittings Series.*
- *Push-Lok is not recommended for any fuel, refrigerant, or for use in air conditioners and heat pump applications.*
- *Push-Lok is not recommended for applications where extreme pulsation is encountered.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING

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THERMAL COOLING 627

Performance

Parker's 627 Thermal Cooling Hose is designed to be utilized for the transfer of coolant in high performance computers and data farms. The tube is specially compounded peroxide cured EPDM, which is formulated to be compatible with industrial coolants.

view on web page

627

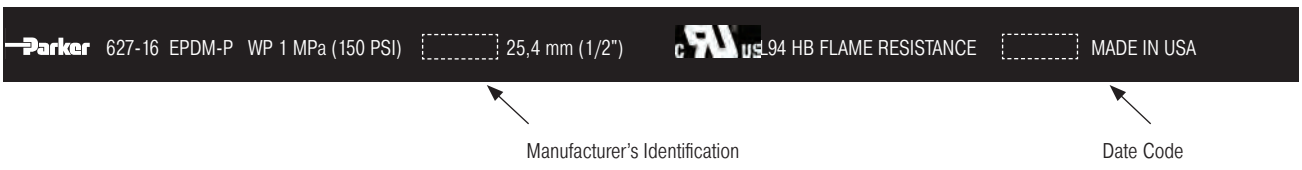
Thermal Cooling

Available Cover Colors: BLK

# Part Number	Hose I.D. inch	Hose I.D. mm	Reinf Layers	Hose O.D. inch	Hose O.D. mm	Weight lbs/ft	Weight kg/m	Minimum Bend Radius inch	Minimum Bend Radius mm	Working Pressure psi	Working Pressure bar	Perm Cplg Rec	Nom Std Pack Qty ft	Pkg Type
627-6-RL	3/8	9.5	2	0.7	16.7	0.13	0.19	1.3	33	150	10	HY	700	Reel
627-8-RL	1/2	12.7	4	0.9	22.7	0.24	0.36	2.0	51	150	10	HY	550	Reel
627-12-RL	3/4	19.1	4	1.2	29.4	0.34	0.51	3.0	76	150	10	HY	400	Reel
627-16-RL	1	25.4	4	1.4	36.3	0.46	0.68	4.5	114	150	10	HY	300	Reel
627-20-RL	1 1/4	31.8	4	1.8	45.7	0.67	1.01	6.5	165	150	10	HY	250	Reel
627-24-RL	1 1/2	38.1	4	2	50	0.84	1.24	9	228	150	10	43	200	Reel

Application: Thermal Cooling
Tube: Black EPDM, peroxide cured
Reinforcement: Multiple textile plies
Cover: Black EPDM; smooth finish
Temperature Range: -40°F to +212°F (-40°C to +100°C)
Brand Method: White ink
Brand Example: PARKER 627-16 EPDM-P WP 1MPa (150 PSI) 25,4mm (1") ЯU L94 HB Flame Resistance MADE IN USA

Design Factor: 4:1
Industry Standards: UL94 Flame Resistance Rating HB
Vacuum: Not Recommended
Couplings: Designed to be used with hose barbs and clamps



WARNING
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THERMAL COOLING 629

Performance

The 629 Server Blade Hose, is designed to be utilized for the transfer of coolant solutions in direct liquid cooling servers in data center rack manifolds. The tube is a specially formulated peroxide cured EPDM for robust sealing properties and fluid purity of multiple industry coolants.

view on web page

629
Server Blade Hose
Available Cover Colors: BLK

# Part Number	Hose I.D.		Hose O.D.		Weight		Minimum Bend Radius		Working Pressure		Vacuum Rating		Series Cplg Rec	Nom Std Pack Qty ft	Pkg Type
	inch	mm	inch	mm	lbs/ft	kg/m	inch	mm	psi	bar	in (HG)	(kPa)			
629-3.5-RL	0.21	5.3	0.38	9.7	150	10.3	0.6	16.0	150	10.3	28	95	N/A	500	Reel
629-4-RL	0.25	6.4	0.44	11.2	150	10.3	0.8	19.1	150	10.3	28	95	N/A	600	Reel

Tube: Black EPDM, peroxide cured
Reinforcement: One fiber braid
Cover: Black Synthetic Rubber; smooth finish
Temperature Range: -40°F to +212°F (-40°C to +100°C)
Brand Method: White ink
Brand Example: Parker 629-4 HOSE EPDM-P WP 1MPa (150 psi) 6,4mm (1/4") UL94 V-0 HOSE COVER MADE IN USA

Design Factor: 4:1
Industry Standards: UL94 V-0 Flame Resistance Rating
Application: DI water and glycol-based coolant solutions
Couplings: Designed to be used on hose barb and clamped

This product is only available to full line Parker distributors.

WARNING
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PHOSPHATE-ESTER 424, 304, 774, F42

Parker's phosphate-ester hoses enables you to address the needs of the next generation aviation ground support equipment and the trend towards higher pressures in other industries using phosphate-ester fluids. Our hose selection offers the industry's largest selection of low-, medium-, and high-pressure hoses specifically designed to resist aggressive airline hydraulic fluids. Parker's phosphate-ester hose line, together with the proper EPDM O-ring face seal and 37° Flare fittings and pipe adapters, means your leak-free assemblies will be the last thing you'll need to worry about.

424 hose
- Up to 1,000 psi
- Dimensionally conforms to SAE 100R1 Type AT specification
- Uses Parkrimp 43 Series fittings, providing the widest selection of end configurations available anywhere

304 hose
- Up to 5,000 psi
- Dimensionally conforms to SAE 100R2 Type AT specification
- Uses Parkrimp 43 Series fittings, providing the widest selection of end configurations available anywhere

774 hose
- Up to 4,000 psi
- Dimensionally conforms to SAE 100R12 and EN 856 Type R12 specifications
- Uses Parkrimp 71 Series fittings

F42 hose
- 6,000 psi maximum working pressure
- Compatible with phosphate ester based hydraulic fluids with a temperature range of -40°C to +80°C (-40°F to +176°F)
- Uses Parkrimp 70 / 79 Series fittings

view on web page

424
Hydraulic – Phosphate-Ester Base Fluids

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	43 Series
424-16	1	25	1.40	36	1000	6,9	12	300	0.63	0,94	20	68	Link
424-20	1-1/4	31,5	1.73	44	625	4,3	16-1/2	420	0.80	1,19	20	68	Link
424-24	1-1/2	38	2.00	51	500	3,5	20	500	1.00	1,49	15	51	Link
424-32	2	51	2.50	64	375	2,6	25	630	1.50	2,23	11	37	Link

Application: Phosphate-ester base hydraulic fluids.
Inner Tube: EPDM rubber.
Reinforcement: One-braid steel wire.
Cover: EPDM rubber, green.
Temperature Range: -40°F to +176°F (-40°C to +80°C).
Fittings: 43 Series - pg. 83.

- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

PHOSPHATE-ESTER

304

Hydraulic – Phosphate-Ester Base Fluids

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series
304-4	1/4	6,3	0.59	15	5000	34,5	4	100	0.26	0,39	Link
304-6	3/8	10	0.75	19	4000	27,5	5	130	0.37	0,55	Link
304-8	1/2	12,5	0.88	22	3500	24	7	180	0.45	0,67	Link
304-10	5/8	16	1.00	25	2750	19	8	200	0.53	0,79	Link
304-12	3/4	19	1.16	29	2250	15,5	9-1/2	240	0.67	1,00	Link
304-16	1	25	1.50	38	2000	13,8	12	300	1.00	1,49	Link
304-20	1-1/4	31,5	1.86	47	1625	11,2	16-1/2	420	1.16	1,73	Link
304-24	1-1/2	38	2.14	54	1250	8,6	20	500	1.44	2,14	Link
304-32	2	51	2.64	67	1125	7,8	25	630	1.99	2,96	Link

Application: Phosphate-ester base hydraulic fluids.
Inner Tube: EPDM rubber.
Reinforcement: Two-braid steel wire.
Cover: EPDM rubber, green.
Temperature Range: -40°F to +176°F (-40°C to +80°C).
Fittings: 43 Series - pg. 83.

⚠ WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

774

Hydraulic – Phosphate-Ester Base Fluids

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	71 Series
774-12	3/4	19	1.21	31	4000	28,0	9-1/2	240	0.94	1,40	Link
774-16	1	25	1.50	38	4000	28,0	12	300	1.34	1,99	Link
774-20	1-1/4	31,5	1.84	46	3000	21,0	16-1/2	420	1.74	2,59	Link
774-24	1-1/2	38	2.07	53	2500	17,5	20	500	2.01	2,99	Link
774-32	2	51	2.59	66	2500	17,5	25	630	2.75	4,09	Link

Application: Phosphate-ester base hydraulic fluids.
Inner Tube: EPDM rubber.
Reinforcement: Four-spiral steel wire.
Cover: EPDM rubber, green.
Temperature Range: -40°F to +176°F (-40°C to +80°C).
Fittings: 71 Series - pg. 132

- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

PHOSPHATE-ESTER

F42

Hydraulic – Phosphate-Ester Base Fluids

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp	Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	70 Series	79 Series
F42-8	1/2	12,5	0.97	25,0	6000	42,0	8	200	0.56	0,83	Link	
F42-12	3/4	19	1.26	31,9	6000	42,0	10-1/2	265	1.03	1,53		Link
F42-16	1	25	1.52	38,5	6000	42,0	13	330	1.40	2,08		Link
F42-20	1-1/4	31,5	1.97	50	6000	42,0	17-1/2	445	2.66	3,96		Link

Application: Phosphate-ester base hydraulic fluids.

Inner Tube: EPDM rubber.

Reinforcement: Four- or six-spiral steel wire.

Cover: EPDM rubber, green.

Temperature Range: -40°F to +176°F (-40°C to +80°C).

Fittings: 70 Series - pg. 123.
79 Series - pg. 181.

- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

LOW TEMP 472LT, 722LT, 792LT

In extremely cold and usually remote areas, a hose burst or leak in a critical application can cause expensive downtime and possible environmental issues. Selecting the right hose for dependable, long-life performance in these applications is essential.

Parker's family of low-temperature hoses are designed specifically to excel in the brutal operating conditions of extreme cold!

- Delivers superior performance in extreme cold conditions
- Rated as low as -70°F (-57°C)
- The choice for heavy construction equipment, side booms, mining equipment, mobile equipment, arctic oil field, snow grooming equipment, snow making machinery and cold storage applications
- These No-Skive hoses use Parker's standard 43, 71, and 79 Series fittings and easy-to-use Parkrimp style crimping system

Performance

view on web page

472LT

Low-Temperature Braided

EN 857 TYPE 2SC

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series
472LT-4	1/4	6,3	0.53	13,1	5800	40,0	2	50	0.20	0,30	Link
472LT-6	3/8	10	0.67	17,2	5000	35,0	2-1/2	65	0.24	0,42	Link
472LT-8	1/2	12,5	0.71	20,4	4250	29,7	3-1/2	90	0.35	0,52	Link
472LT-12	3/4	19	1.09	27,7	3125	21,5	4-3/4	120	0.58	0,86	Link
472LT-16	1	25	1.39	35,4	2500	17,5	6	150	0.79	1,17	Link

Application: Petroleum base hydraulic fluids and lubricating oils in low-temperature conditions.

Inner Tube: Proprietary synthetic rubber compound.

Reinforcement: Two-braid high tensile steel wire.

Cover: Proprietary synthetic rubber compound.

Temperature Range: -70°F to +212ºF (-57ºC to +100ºC).

Fittings: 43 Series, sizes -4 to -16 - pg. 83.

- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Performance

722LT

Low-Temperature Spiral

ISO 3862-1 TYPE R12 / SAE J517 100R12 / EN 856 TYPE R12*

view on web page

Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series	Parkrimp 71 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
722LT-6	3/8	10	0.78	19,8	4000	28,0	2-1/2	65	0.40	0,60	Link	
722LT-8	1/2	12,5	0.89	22,6	4000	28,0	3-1/2	90	0.54	0,80	Link	
722LT-10	5/8	16	1.04	26,4	4000	28,0	4	100	0.74	1,10	Link	
722LT-12	3/4	19	1.21	30,6	4000	28,0	4-3/4	120	0.94	1,40	Link	
722LT-16	1	25	1.49	37,7	4000	28,0	6	150	1.34	1,99	Link	
722LT-20	1-1/4	31,4	1.82	46,2	3000	21,0	8-1/4	210	1.74	2,59	Link	
722LT-24	1-1/2	38	2.06	52,5	2500	17,5	10	250	2.01	2,99		Link

Application: Snow grooming equipment, heavy construction equipment and sidebooms.

Inner Tube: Nitrile synthetic rubber.

Reinforcement: Four-spiral steel wire.

Cover: Synthetic rubber, MSHA accepted.

***Temperature Range:** -70°F to +212ºF (-57ºC to +100ºC). (Outside industry specification)

Fittings: 43 Series, sizes -6 to -20 - pg. 83.
71 Series, size -24 - pg. 132.

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Performance

792LT

Low-Temperature NO-SKIVE

ISO 3862-1 TYPE R15 / SAE J517 100R15 / EN 856 TYPE R15*

view on web page

Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 79 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
792LT-16	1	25	1.52	38,7	6000	42,0	13	330	1.48	2,20	Link
792LT-20	1-1/4	31,5	1.97	50	6000	42,0	17-1/2	445	2.48	3,69	Link
792LT-24	1-1/2	38	2.22	57	6000	42,0	20-3/4	530	3.22	4,79	Link

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Four- or six-spiral wire, high tensile steel.

Cover: PKR Rubber.

***Temperature Range:** -70ºF to +212ºF (-57ºC to +100ºC). (Outside industry specification).

Fittings: 79 Series - pg. 181.

- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

TRANSPORTATION 293, 213, 266

Parker's transportation hose selection has all your vehicle and equipment applications covered – with industry-leading performance and value you can count on. Meeting or exceeding specifications, Parker's offerings are available in the sizes, pressure ratings, special designs and long-lasting durability your hydraulic or pneumatic systems demand.

Performance

293

Transportation – Air Brake Hose

SAE J1402 AI / DOT FMVSS 106 AIR BRAKE - AI

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Hg Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	26 Series	21 Series
293-4	3/16	5	0.49	12,5	500	3,5	1/2	15	0.10	0,15	28	95	Link	Link
293-6	5/16	8	0.62	15,7	500	3,5	1	25	0.15	0,22	28	95	Link	Link
293-8	13/32	10	0.74	18,7	500	3,5	1-1/2	40	0.18	0,27	28	95	Link	Link
293-10	1/2	12,5	0.83	21,1	450	3,1	2	50	0.20	0,30	28	95	Link	Link
293-12	5/8	16	0.96	24,3	450	3,1	2-1/2	65	0.22	0,33	28	95	Link	Link
293-16	7/8	22	1.21	30,6	450	3,1	3-1/4	80	0.25	0,37	20	68	Link	Link

Application: Petroleum base hydraulic fluids and lubricating oils, diesel fuels, and antifreeze solutions.

Inner Tube: PKR®.

Reinforcement: One fiber braid.

Cover: Abrasion resistant nylon fiber braid.

Temperature Range: -58°F to +302°F (-50°C to +150°C).
Rated to 302°F, 150°C in engine applications
Rated to 212°F, 100°C in air brake applications

Fittings: 26 Series - pg. 63.
21 Series - pg. 210.

- *Field Attachable Assembly Instructions are in Section 2 with each Fittings Series.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*
- *SAE spec certification for 293 hose is for -4 through -12 only.*

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

TRANSPORTATION

Performance

213

Transportation

SAE J1402 AI / DOT FMVSS 106 AIR BRAKE - AI

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	26 Series	21 Series
213-4	3/16	5	0.49	12,5	2000	14	3/4	20	0.12	0,18	28	95	Link	Link
213-5	1/4	6,3	0.55	14	1500	10,5	1	25	0.14	0,21	28	95	Link	Link
213-6	5/16	8	0.62	16	1500	10,5	1-1/4	30	0.17	0,25	28	95	Link	Link
213-8	13/32	10	0.74	19	1250	8,7	1-3/4	45	0.20	0,30	28	95	Link	Link
213-10	1/2	12,5	0.83	21	1000	7	2-1/4	55	0.22	0,33	28	95	Link	Link
213-12	5/8	16	0.96	24	750	5,2	2-3/4	70	0.24	0,36	28	95	Link	Link
213-16	7/8	22	1.21	31	400	2,8	3-1/2	90	0.30	0,45	20	68	Link	Link
213-20	1-1/8	29	1.49	38	300	2,1	4-1/2	115	0.44	0,65	20	68	Link	Link
213-24	1-3/8	35	1.73	44	300	2,1	7-1/2	190	0.52	0,77	15	51	Link	Link
213-32	1-13/16	46	2.14	54	200	1,4	14	355	0.67	1,00	11	37	Link	Link
213-40*	2-3/8	61	2.88	73	175	1,2	24	610	1.31	1,95	11	64	Link	Link

*NOTE: Due to fitting size, this is a factory crimp only.

Application: Petroleum base hydraulic fluids and lubricating oils, diesel fuels, and antifreeze solutions.

Inner Tube: PKR®.

Reinforcement: One fiber braid and one steel braid.

Cover: Fiber braid.

Temperature Range: -50°F to +302°F (-45°C to +150°C).
Rated to 302°F, 150°C in engine applications
Rated to 212°F, 100°C in air brake applications

Fittings: 26 Series - pg. 63.
21 Series - pg. 210.

- *See page 436 for charted effects temperature has on maximum working pressures of 201, 206, 213, and 266 hose.*
- *See Section 2 for Field Attachable Assembly Instructions.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*
- *SAE spec certification for 213 hose is for -4 through -12 only.*

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

TRANSPORTATION

Performance

266

Transportation

SAE J1402 AII / DOT FMVSS 106 AIR BRAKE - AII

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	26 Series	20/22 Series
266-4	3/16	5	0.52	13,2	2000	14	3/4	20	0.15	0,22	28	95	Link	Link
266-5	1/4	6,3	0.58	14,8	1500	10,5	1	25	0.16	0,24	28	95	Link	Link
266-6	5/16	8	0.68	17,2	1500	10,5	1-1/4	30	0.23	0,34	28	95	Link	Link
266-8	13/32	10	0.77	19,5	1250	8,7	1-3/4	45	0.26	0,39	28	95	Link	Link
266-10	1/2	12,5	0.92	23,4	1250	8,7	2-1/4	55	0.38	0,56	28	95	Link	Link
266-12	5/8	16	1.08	27,4	750	5,2	2-3/4	70	0.42	0,63	20	68	Link	Link
266-16	7/8	22	1.24	31,4	400	2,8	3-1/2	90	0.48	0,71	15	51	Link	Link
266-20	1-1/8	29	1.50	38,4	300	2,1	4-1/2	115	0.51	0,76	15	51	Link	Link
266-24	1-3/8	35	1.75	44,5	250	1,7	5-1/2	140	0.68	1,01	11	37	Link	Link

Application: Petroleum base hydraulic fluids and lubricating oils, diesel fuels, and antifreeze solutions.

Inner Tube: PKR®.

Reinforcement: One fiber braid and one steel braid.

Cover: Fiber braid.

Temperature Range: -55˚F to +302˚F (-48˚C to +150˚C).
Rated to 302˚F, 150˚C in engine applications
Rated to 212˚F, 100˚C in air brake applications

Fittings: 26 Series - pg. 63.
20 Series - pg. 200.
22 Series - pg. 216.

- *See page 436 for charted effects temperature has on maximum working pressures of 201, 206, 213, and 266 hose.*
- *See Section 2 for Field Attachable Assembly Instructions.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*
- *SAE spec certification for 266 hose is for -4 through -12 only.*

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

TRANSPORTATION

Performance

view on web page

201

Transportation

SAE J517 100R5 / SAE J1402 AII / DOT FMVSS 106 AIR BRAKE - AII

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	26 Series	20/22 Series
201-4	3/16	5	0.52	13	3000	21	3	75	0.15	0,22	28	95	Link	Link
201-5	1/4	6,3	0.58	15	3000	21	3-3/8	85	0.18	0,27	28	95	Link	Link
201-6	5/16	8	0.68	17	2250	15,7	4	100	0.23	0,34	28	95	Link	Link
201-8	13/32	10	0.77	20	2000	14	4-1/2	115	0.27	0,40	28	95	Link	Link
201-10	1/2	12,5	0.92	23	1750	12,2	5-1/2	140	0.37	0,55	28	95	Link	Link
201-12	5/8	16	1.08	27	1500	10,5	6-1/2	165	0.40	0,60	28	95	Link	Link
201-16	7/8	22	1.23	31	800	5,6	7-3/8	185	0.46	0,68	20	68	Link	Link
201-20	1-1/8	29	1.50	38	625	4,3	9	230	0.51	0,76	20	68	Link	Link
201-24	1-3/8	35	1.75	44	500	3,5	10-1/2	265	0.68	1,01	15	51	Link	Link
201-32	1-13/16	46	2.22	56	350	2,4	13-1/4	335	0.89	1,32	11	37	Link	Link
201-40	2-3/8	60	2.88	73	350	2,4	24	610	1.31	1,95	11	37	Link	Link
201-48	3	76	3.56	90	200	1,4	33	840	2.09	3,11	11	37		Link

Application: Petroleum base hydraulic fluids and lubricating oils, diesel fuels, and antifreeze solutions.

Inner Tube: Synthetic rubber.

Reinforcement: One fiber braid and one steel braid.

Cover: Fiber braid.

Temperature Range: -40°F to +302°F (-40°C to +150°C).
Rated to 302°F, 150°C in engine applications
Rated to 212°F, 100°C in air brake applications

Fittings: 26 Series - pg. 63.
20 Series - pg. 200.
22 Series - pg. 216.

- *See page 436 for charted effects temperature has on maximum working pressures of 201, 206, 213, and 266 hose.*
- *See Section 2 for Field Attachable Assembly Instructions.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*
- *SAE spec certification for 201 hose is for -4 through -12 only.*

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

TRANSPORTATION

Performance

view on web page

206

Transportation

SAE J517 100R5 / SAE J1402 AII / DOT FMVSS 106 AIR BRAKE - AII

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	26 Series	20/22 Series
206-4	3/16	5	0.52	13	3000	21	3	75	0.15	0,22	28	95	Link	Link
206-5	1/4	6,3	0.58	15	3000	21	3-3/8	85	0.18	0,27	28	95	Link	Link
206-6	5/16	8	0.68	17	2250	15,7	3-1/2	90	0.23	0,34	28	95	Link	Link
206-8	13/32	10	0.77	20	2000	14	3-1/2	90	0.27	0,40	28	95	Link	Link
206-10	1/2	12,5	0.92	23	1750	12,2	4	100	0.37	0,55	28	95	Link	Link
206-12	5/8	16	1.08	27	1500	10,5	4	100	0.40	0,60	28	95	Link	Link
206-16	7/8	22	1.23	31	800	5,6	4	100	0.46	0,68	20	68	Link	Link
206-20	1-1/8	29	1.50	38	625	4,3	5-1/2	140	0.51	0,76	20	68	Link	Link
206-24	1-3/8	35	1.75	44	500	3,5	7-1/2	190	0.68	1,01	15	51	Link	Link
206-32	1-13/16	46	2.22	56	350	2,4	13-1/4	335	0.89	1,32	11	37	Link	Link
206-40	2-3/8	60	2.88	73	350	2,4	24	610	1.31	1,95	11	37	Link	Link

Application: Petroleum base hydraulic fluids and lubricating oils, diesel fuels, and antifreeze solutions.

Inner Tube: PKR®.

Reinforcement: One fiber braid and one steel braid.

Cover: Fiber braid, blue.

Temperature Range: -55˚F to +302˚F (-48˚C to +150˚C).
Rated to 302˚F, 150˚C in engine applications
Rated to 212˚F, 100˚C in air brake applications

Fittings: 26 Series - pg. 63.
20 Series - pg. 200.
22 Series - pg. 216.

- *See page 436 for charted effects temperature has on maximum working pressures of 201, 206, 213, and 266 hose.*
- *See Section 2 for Field Attachable Assembly Instructions.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*
- *SAE spec certification for 206 hose is for -4 through -12 only.*

⚠ WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

TRANSPORTATION 611HT

Performance

611HT

Transportation

SAE J517 100R6 / EN 854 TYPE R6

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	HY Series
611HT-4	1/4	6,2	0.47	11,9	400	2,8	2 1/2	65	0.09	0,13	28	95	Link
611HT-6	3/8	9,3	0.59	15,1	400	2,8	3	75	0.11	0,16	28	95	Link
611HT-8	1/2	12,5	0.75	19,0	400	2,8	4	100	0.18	0,27	28	95	Link
611HT-10	5/8	15,7	0.88	22,2	350	2,4	5	125	0.19	0,28	18	61	Link
611HT-12	3/4	18,8	1.00	25,4	300	2,1	6	150	0.25	0,36	18	61	Link

Application: Petroleum base hydraulic fluids and lubricating oils, diesel fuels, and antifreeze solutions.

Inner Tube: PKR®.

Reinforcement: One fiber braid.

Cover: Synthetic rubber abrasion resistant, MSHA accepted.

Temperature Range: -55°F to +302°F (-48°C to +150°C).

Fittings: HY Series - pg. 185.

- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*
- *See Crimpsource™ for approved sizes of HY Series stainless steel fittings.*

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

TRANSPORTATION 271 Air Brake

271

Transportation – Air Brake Hose

SAE J1402 A / DOT FMVSS 106 AIR BRAKE - A

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	25 Series
271-6	3/8	10	0.75	19	225	1,6	1-3/4	45	0.20	0,30	Link
271-8	1/2	12,5	0.88	22	225	1,6	2	50	0.26	0,39	Link

Application: Air brake systems.
Inner Tube: Synthetic rubber.
Reinforcement: One or more fiber braid.
Cover: Synthetic Rubber.
Temperature Range: -50°F to +212°F (-46°C to +100°C).
Fittings: 25 Series - pg. 60.

- *See page 436 for charted effects temperature has on maximum working pressures of 201, 206, 213, and 266 hose.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

TRANSPORTATION SS23CG

If you make or maintain LPG / CNG powered equipment, SS23CG hose is your choice for gas permeation resistance and reliable performance. SS23CG meets the requirements of CSA 8.1-2015 Type III and meets permeation requirements of 1,6 g/m^2-day. Hose assemblies should be installed in accordance with CSA B149.1.

SS23CG

Transportation – Compressed Natural Gas and Liquefied Petroleum Gas

UL 21 / CSA 8.1 2015 TYPE III / NFPA 58

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 26 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
SS23CG-6	5/16	8,0	0.68	17,2	350	2,4	4	100	0.16	0,24	Link
SS23CG-8	13/32	10,0	0.77	19,5	350	2,4	4-1/2	115	0.17	0,25	Link
SS23CG-10	1/2	12,5	0.92	23,4	350	2,4	5-1/2	140	0.28	0,42	Link
SS23CG-12	5/8	15,9	1.05	26,8	350	2,4	6-1/2	165	0.30	0,45	Link

FACTORY MADE HOSE ASSEMBLIES ONLY. Contact Hose Products Division for more information.
For ECE R110 and ECE R67 approval, contact Hose Products Division.

Application: Liquefied petroleum gas (LPG), Compressed natural gas (CNG).
Inner Tube: Nylon.
Reinforcement: One stainless steel braid.
Cover: Synthetic rubber.
Temperature Range: -40°F to +250°F (-40°C to +121°C).
Fittings: 26 Series - pg. 63.

- *Embossed layline per industry standard*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING
The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

ALTERNATIVE / MARINE / FUEL SS25UL

- Low-pressure service with liquefied petroleum gas
- UL Standard 21 certification
- Oil and LPG resistant synthetic fiber cover
- Compatible with 26 Series Parkrimp style fittings

SS25UL

Transportation – Liquefied Petroleum Gas

UL 21 / NFPA 58

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 26 Series	Field Attachable 20/22 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
SS25UL-4	3/16	5	0.52	13,2	350	2,4	0.75	20	0.11	0,16	Link	Link
SS25UL-5	1/4	6,3	0.58	14,8	350	2,4	1	25	0.13	0,19	Link	Link
SS25UL-6	5/16	8	0.68	17,2	350	2,4	1-1/4	30	0.18	0,27	Link	Link
SS25UL-8	13/32	10	0.77	19,5	350	2,4	1-3/4	45	0.21	0,31	Link	Link
SS25UL-10	1/2	12,5	0.92	23,4	350	2,4	2-1/4	55	0.29	0,43	Link	Link
SS25UL-12	5/8	16	1.08	27,4	350	2,4	2-3/4	70	0.37	0,55	Link	Link

Application: Liquefied petroleum gas (LPG).

Inner Tube: Synthetic rubber.

Reinforcement: One fiber braid and one stainless steel wire braid.

Cover: Fiber braid.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

Fittings: 26 Series - pg. 63.
20 Series - pg. 200.
22 Series - pg. 216.

⚠ WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

SS25UL-AGA

Transportation – Liquefied Petroleum Gas

AS / NZS 1869-2012 CLASS D

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 26 Series	Field Attachable 20/22 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
SS25UL-4-AGA	3/16	5	0.52	13,2	375	2,6	0.75	20	0.11	0,16	Link	Link
SS25UL-6-AGA	5/16	8	0.68	17,2	375	2,6	1-1/4	30	0.18	0,27	Link	Link
SS25UL-8-AGA	13/32	10	0.77	19,5	375	2,6	1-3/4	45	0.21	0,31	Link	Link

FACTORY MADE HOSE ASSEMBLIES ONLY. Contact Hose Products Division for more information.

Application: Liquefied petroleum gas (LPG).

Inner Tube: Synthetic rubber.

Reinforcement: One fiber braid and one stainless steel wire braid.

Cover: Fiber braid.

Temperature Range: -40°F to +250°F (-40°C to +121°C).

Fittings: 26 Series - pg. 63.
20 Series - pg. 200.
22 Series - pg. 216.

- *See Section 2 for Field Attachable Assembly Instructions.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

⚠ WARNING

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ALTERNATIVE / MARINE / FUEL

221FR

Parker's 221FR hose is a transportation hose used for marine fuel and engines that provides fire resistance for gasoline and fuel systems. The 221FR hose is manufactured to meet many industry standards, such as ISO and SAE, for reliability.

- ISO 7840 and USCG approved
- Marine fuel and engine hose

view on web page

221FR

Transportation – Marine Fuel and Engine Hose

ISO 7840 / SAE J1527 A CLASS I / SAE J1942

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Hg Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	26 Series	20/22 Series
221FR-5	1/4	6,3	0.58	15	500	3,5	1	25	0.19	0,28	24	81	LINK	LINK
221FR-6	5/16	8	0.68	17	500	3,5	1-1/4	30	0.23	0,34	24	81	LINK	LINK
221FR-8	13/32	10	0.77	20	500	3,5	1-3/4	45	0.28	0,42	24	81	LINK	LINK
221FR-10	1/2	12,5	0.92	23	500	3,5	2-1/4	55	0.39	0,58	20	68	LINK	LINK
221FR-12	5/8	16	1.08	27	500	3,5	2-3/4	70	0.41	0,61	20	68	LINK	LINK
221FR-16	7/8	22	1.23	31	500	3,5	3-1/2	90	0.47	0,70	20	68	LINK	LINK

ISO 7840 with 26 Series fittings ONLY.

Application: Gasoline, ethanol blends, diesel fuels, petroleum base hydraulic fluid, and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: One-braid steel wire.

Cover: Synthetic rubber, blue, MSHA accepted.

Temperature Range: -4°F to +212°F (-20°C to +100°C).

Fittings: 26 Series - pg. 63.
20 Series - pg. 200.
22 Series - pg. 216.

- *See Section 2 for Field Attachable Assembly Instructions.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

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ALTERNATIVE / MARINE / FUEL

650 Renewable Diesel Fuel Hose

The 650 series fuel hose is the "one hose to do it all" fuel line. It can be used in a variety of fuel line applications that transfer gasoline, diesel, or biodiesel from the fuel tank to the engine circuit. Parker has simplified the choices for our customers of which hose fits the required specification, the 650 series has you covered for almost all your fuel line requirements.

view on web page

650

Alternative/Marine/Fuel

# Part Number	Hose I.D. (in)	Hose I.D. (mm)	Reinf Plies	Hose O.D. (in)	Hose O.D. (mm)	Weight lbs/ft	Weight kg/m	Minimum Bend Radius (in)	Minimum Bend Radius (mm)	Working Pressure (psi)	Working Pressure (bar)	Std Pack Qty	Coupling HY Series	J2044 Specs
650-3-RL	3/16	4.8	2	0.41	10.3	6.17	2.80	1.25	32	500	34.5	250 ft		
650-4-RL	1/4	6.4	2	0.50	12.7	9.35	4.24	1.50	38	400	27.6	250 ft	Link	
650-5-RL	5/16	7.9	2	0.56	14.3	11.00	4.99	2.00	51	400	27.6	250 ft	Link	Link
650-6-RL	3/8	9.5	2	0.63	15.9	12.55	5.69	2.50	64	400	27.6	250 ft	Link	Link
650-8-RL	1/2	12.7	2	0.78	19.8	18.67	8.47	4.00	102	400	27.6	250 ft	Link	Link
650-10-RL	5/8	15.9	2	0.94	23.8	24.83	11.26	5.00	127	350	24.1	250 ft	Link	Link
650-12-RL	3/4	19.1	2	1.13	28.6	36.85	16.71	7.00	180	300	20.7	250 ft	Link	Link

Tube: Black synthetic rubber

Reinforcement: Multiple aramid plies

Cover: Black synthetic rubber

Temperature Range: -40°F to +257°F (-40°C to +125°C)

Brand Method: White ink

Brand Example: Parker 650-6 SAE 30R7 & PERFORMANCE OF SAE 30R2 TYPE 3/SAE30R: WP 2,8 MPA (400 F 397/5139/5155/ 1 RENEWABLE DIESEL FUEL TO B100; 10,0MM (3/8); MADE IN USA

Design Factor: 5:1

Industry Standards: SAE J30R7, meets performance of 30R2 Type 1, 2 and 3, 30R3, and 30R13 (portions of T1 and T3)

Application: Fuel lines on equipment utilizing gasoline, diesel or biodiesel up to B100 including HVO, SME and PME renewable fuels

Vacuum: 24" Hg (3/16" thru 3/8" ID); 10" Hg (1/2" thru 3/4" ID)

Packaging: Reels

Fittings: Over B20 biodiesel fuel, recommend using stainless or nylon fittings.

See Material Compatibility Chart

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REFRIGERANT 285 Barrier Air Conditioning Hose

Parker 285 Barrier Hose is designed to deliver consistency and reliability with a working pressure of 500 psi for air conditioning systems. Parker 285 Hose exceeds current industry standards for ultra-low refrigerant permeation and is designed, built, and tested to meet SAE J3062 Type C_U performance specifications. The hose is designed to meet Automotive OEM requirements for R134a and the next generation R1234yf refrigerants.

- Highly flexible
- Exceeds Automotive OEM requirements
- Exceeds SAE J3062 "Ultra Low" refrigerant permeation rating (1.5 kg/m^2/yr R134a)
- Compatible with Parker's 26 series fittings

285
Refrigerant
SAE J3062 TYPE C_U

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	26 Series
285-4	3/16	5,08	0.490	12,45	500	3,4	1	25	0.09	0,13	28	95	Link
285-6	5/16	8,23	0.580	14,73	500	3,4	1-1/2	40	0.10	0,14	28	95	Link
285-8	13/32	10,67	0.680	17,27	500	3,4	2	50	0.13	0,17	28	95	Link
285-10	1/2	12,95	0.765	19,43	500	3,4	2-1/2	65	0.15	0,19	28	95	Link
285-12	5/8	16,13	1.000	25,4	500	3,4	3	75	0.19	0,27	28	95	Link
285-14	3/4	19,05	1.080	27,4	500	3,4	3-1/2	89	0.24	0,34	28	95	Link

Application: Refrigerants R134a / PAG Oil & R1234yf / PAG Oil.

Inner Tube: Synthetic rubber with nylon barrier.

Reinforcement: Synthetic fiber.

Cover: Synthetic rubber.

Temperature Range: -40°F to +257°F (-40°C to +125°C).

Fittings: 26 Series - pg. 63.

• Size -4 is not rated to SAE J3062
• Size -14 is SAE J3062 Type C
** Size -14 available in factory made hose assemblies only*
• See Section 3 for Parkrimp Assembly Instructions.
• Temperature Range of other media listed in Section 18.

⚠ WARNING
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REFRIGERANT 244

Parker's 244 hose is a one braid steel wire refrigerant hose that has a pressure range of 350 to 500 psi, designed for the rigorous requirements of bus and transit applications.

- Air conditioning hose
- Excellent effusion rate
- Long service life
- Resists moisture ingression
- Parkrimp compatible

244
Refrigerant
SAE J2064 B CLASS I

view on web page

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Hg Vacuum Rating		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	26 Series
244-16	7/8	22	1.23	31	500	3,5	7-1/2	190	0.51	0,76	28	95	Link
244-20	1-1/8	29	1.50	38	500	3,5	9	230	0.56	0,83	28	95	Link
244-24	1-3/8	35	1.75	44	350	2,4	10-1/2	270	0.62	0,92	28	95	Link

Application: Refrigerant 134a.
Inner Tube: Butyl rubber.
Reinforcement: One-braid steel wire.
Cover: Fiber braid.
Temperature Range: -22°F to +257°F (-30°C to +125°C).
Fittings: 26 Series - pg. 63.

- *See Section 2 for Field Attachable Assembly Instructions.*
- *See Section 3 for Parkrimp Assembly Instructions.*
- *Temperature Range of other media listed in Section 18.*

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Parkrimp (crimp) Series of Fittings

25 Series 60
26 Series 63
43 Series 83
70 Series 123
71 Series 132
77 Series 147
79 Series 181
HY Series 185
81 Series 245

Field Attachable Series of Fittings

20 Series 200
21 Series 210
22 Series 216
30 Series 219
42 Series 225
82 Series 230
88 Series 245

How to Read the Fittings Section

With more than 750 end configurations, Parker's brass, stainless steel and Chromium-6 free plated steel fittings include O-ring face seal, flare, straight thread, pipe and metric designs, in both crimp and field attachable styles. Along with Parker hose, all fittings have been tested and approved, and meet stringent industry standards worldwide. Fitting page content is defined by the information shown below. Please take a moment and review.

How to Select Parkrimp Hose Fittings

Example: 1JC43-12-8C

1JC43-12-8C - Fitting (1=Crimp, 2=Field attachable, 3=Push-Lok, Blank=Nipple with clamp)
1JC43-12-8C - End Connection
1JC43-12-8C - Fitting Series
1JC43-12-8C - Size of Fitting End Connection
1JC43-12-8C - Hose Size
1JC43-12-8C - Fitting Material

No Suffix	= Steel
B	= Brass
C	= 316 Stainless Steel
BA	= Brass Nipple with Steel Nut and Socket
BS	= Brass Nipple and Nut with Steel Shell or Socket
SM	= Metric Index
ZJ	= XTR Coating

Hose Inner Diameter
Measured in 1/16 inch increments identified by use of a "dash"(-) numbering system. i.e., 4/16" = 1/4" = -4.

"A" Dimension
Overall Length

Hex size
Use to determine the wrench size

"B" Dimension
(Cutoff Allowance) Dimension used to determine cut length (C.L.) of hose when making a hose assembly

Fitting Information
Base part number and end connection description

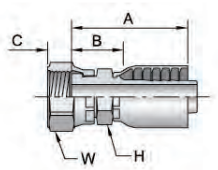
TABLE OF CONTENTS

Standard material for fittings is steel. For additional material, refer to column

1JC43

Female Seal-Lok® - Swivel - Short

ISO 12151-1 - SWSA



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	C inch	C mm	H inch	W inch	B inch	B mm	Additional Material Stainless Steel (C)
1JC43-4-4	1/4	9/16x18	1/4	1.63	41	0.32	8	9/16	11/16	0.88	22	•
1JC43-4-4-SM	1/4	9/16x18	1/4	1.63	41	0.32	8	17 mm	17 mm	0.88	22	
1JC43-4-6	1/4	9/16x18	3/8	1.90	48	0.32	8	11/16	11/16	0.87	22	
1JC43-6-4	3/8	11/16x16	1/4	1.67	42	0.32	8	11/16	13/16	0.92	23	
1JC43-6-4-SM	3/8	11/16x16	1/4	1.67	42	0.32	8	17 mm	22 mm	0.92	23	
1JC43-6-5	3/8	11/16x16	5/16	1.65	42	0.32	8	11/16	13/16	0.90	23	
1JC43-6-6	3/8	11/16x16	3/8	1.94	49	0.32	8	11/16	13/16	0.91	23	•
1JC43-6-6-SM	3/8	11/16x16	3/8	1.94	49	0.32	8	19 mm	22 mm	0.91	23	
1JC43-8-6	1/2	13/16x16	3/8	2.00	51	0.43	11	13/16	15/16	0.97	25	
1JC43-8-6-SM	1/2	13/16x16	3/8	2.00	51	0.43	11	19 mm	24 mm	0.97	25	
1JC43-8-8	1/2	13/16x16	1/2	2.22	56	0.43	11	13/16	15/16	0.96	24	•
1JC43-8-8-SM	1/2	13/16x16	1/2	2.22	56	0.43	11	22 mm	24 mm	0.96	24	
1JC43-10-8	5/8	1x14	1/2	2.30	58	0.53	13	15/16	1-1/8	1.04	26	
1JC43-10-10	5/8	1x14	5/8	2.49	63	0.53	13	15/16	1-1/8	1.05	27	•
1JC43-10-10-SM	5/8	1x14	5/8	2.49	63	0.53	13	24 mm	30 mm	1.05	27	
1JC43-12-8	3/4	1-3/16x12	1/2	2.48	63	0.57	14	1-1/8	1-3/8	1.22	31	
1JC43-12-10	3/4	1-3/16x12	5/8	2.67	68	0.57	14	1-1/8	1-3/8	1.23	31	
1JC43-12-12	3/4	1-3/16x12	3/4	2.68	68	0.57	14	1-1/8	1-3/8	1.24	31	•

Continued on next page

How to select hose fittings

To make ordering Parker products easier, we have outlined the nomenclature for hose and fittings on this page. For information on ordering hose assemblies, see page 6.

How to Select Hose

Example: 487TC-4

487TC-4 -	Hose type
487TC-4 -	Indicates the special feature of the hose (in this case, 'Tough Cover')
487TC-4 -	Hose inside diameter dash size (in this case, 4/16" or 1/4")

How to Select Parkrimp Hose Fittings

Example: 1JC43-12-8C

1JC43-12-8C -	Fitting (1 = Crimp, 2 = Field Attachable, 3 = Push-Lok, Blank = Nipple with clamp or shell)
1JC43-12-8C -	End connection (In this case, a female Seal-Lok – swivel – straight)
1JC43-12-8C -	Fitting series
1JC43-12-8C -	Size of fitting end connection (In this case, 12/16" or 3/4")
1JC43-12-8C -	Hose size (In this case, 8/16" or 1/2")
1JC43-12-8C -	Fitting material: No Suffix = Steel B = Brass C = 316 Stainless Steel BA = Brass Nipple with Steel Nut and Socket BS = Brass Nipple and Nut with Steel Shell or Socket SM = Metric Hex

How to Select Two-Piece Field Attachable Fittings

When selecting a two-piece field attachable fitting, the fitting part number (found in Section 2 of this catalog) needs to be broken down into two distinct numbers for the nipple and the socket.

Example: 20120-16-16B

Socket Part Number

Example: 20020-16B

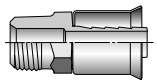
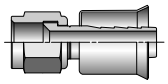
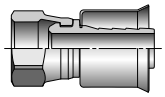
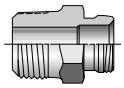
20020-16B -	Fitting (1 = Crimp, 2 = Field Attachable, 3 = Push-Lok, Blank = Nipple with clamp or shell)
20020-16B -	End connection ("00" represents that it is a socket)
20020-16B -	Fitting series
20020-16B -	Hose size (In this case, 16/16" or 1")
20020-16B -	Fitting material: No Suffix = Steel B = Brass C = 316 Stainless Steel BA = Brass Nipple with Steel Nut and Socket BS = Brass Nipple and Nut with Steel Shell or Socket SM = Metric Hex

Nipple Part Number

Example: 0120-16-16B

_0120-16-16B -	Fitting (1 = Crimp, 2 = Field Attachable, 3 = Push-Lok, Blank = Nipple with clamp or shell)
0120-16-16B -	End connection (In this case, a male NPTF Pipe – rigid – straight)
0120-16-16B -	Fitting series
0120-16-16B -	Size of fitting end connection (In this case, 16/16" or 1")
0120-16-16B -	Hose size (In this case, 16/16" or 1")
0120-16-16B -	Fitting material: No Suffix = Steel B = Brass C = 316 Stainless Steel BA = Brass Nipple with Steel Nut and Socket BS = Brass Nipple and Nut with Steel Shell or Socket SM = Metric Hex

25 Series Fittings

Flange	10125 61	10825 61	17B25 61	017M 61	62
	 *Rigid*	 *Swivel*	 *Swivel*	 *Swivel*	*Assembly Instructions*

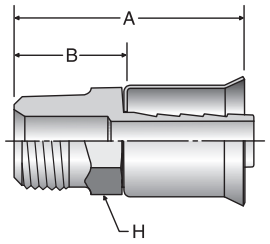
10125

Male NPTF Pipe - Rigid

Use with hose: 271

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10125-6-6B-VS	3/8X18	3/8	1.72	44	11/16	1.00	25
10125-6-8B-VS	3/8X18	1/2	1.72	44	11/16	1.00	25
10125-8-6B-VS	1/2X14	3/8	2.05	52	7/8	1.33	34
10125-8-8B-VS	1/2X14	1/2	2.05	52	7/8	1.33	34

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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10825

Female SAE 45° - Swivel

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10825-6-6B	5/8X18	3/8	1.82	46	3/4	1.10	28
10825-8-6B	3/4X16	3/8	1.80	46	7/8	1.08	27
10825-8-8B	3/4X16	1/2	1.95	50	7/8	1.22	31

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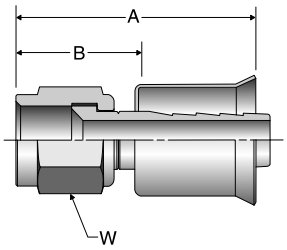

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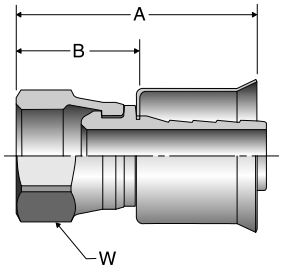
17B25

Female Air Brake Jounce Line - Swivel - Straight

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
17B25-8-6B	3/4X20	3/8	1.59	40	7/8	0.87	22
17B25-8-8B	3/4X20	1/2	1.59	40	7/8	0.87	22

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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017M

Air Brake Adapter

# Part Number	Thread End 1 NPTF inch		Thread End 2 UNEFinch		L inch	L mm	H inch
017M-6-8B	6	3/8X18	8	3/4X20	1.13	29	3/4
017M-8-8B	8	1/2X14	8	3/4X20	1.33	34	7/8

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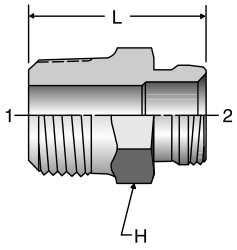

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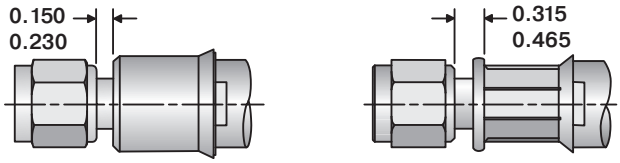
Assembly Instructions

1. On the 08 end configurations only, the use of a mandrel is required. This mandrel is designed to set the proper gap between the nut and the shell. To match the correct fitting with the proper mandrel part number refer to the table below.

2. The assembly mandrels can be used with a common bench vise or on the TH2-7 push-on stand. Refer to Bulletin 4480-T13-USA for push-on stand instructions.
3. When using a common bench vise, place the mandrel in the vise, put the fitting on the mandrel (nut first) then push on the hose until it bottoms. Visually check the sight hole on the side of the shell to assure that the hose is fully inserted.
4. Remove mandrel from fitting and check for proper gap between nut and shell. (See table below).
5. Now crimp the fitting onto the hose. Refer to CrimpSource for correct crimp dies and crimping dimensions.
6. Check for proper gap between nut and shell after crimp. (See table below)



NOTE: B dimension is measured from the back of the fully-seated nut to the start of the crimp length. The nut must be free to swivel after crimping of the shell.

Fitting Part Number	Required Assembly Tool	A Length		B Length	
		mm	inch	mm	inch
10625-6-6B	TH2-7M25-6	3,80 5,85	0.150 0.230	8,00 11,80	0.310 0.465
10825-6-6B					
10625-8-8B	TH2-7M25-8				
10825-8-8B					

NOTE: The "Required Assembly Tool" must be used to assemble all fittings listed above.

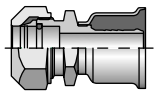
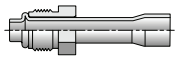
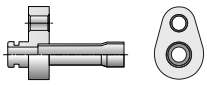
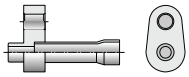
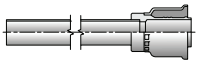
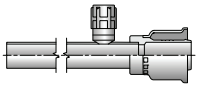
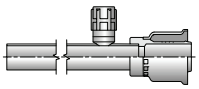
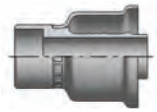
7. For all other 25 series fittings, use of mandrel is not necessary. Push fitting onto hose until it bottoms. Visually check sight hole on the side of the shell to assure that the hose is fully inserted.

26 Series Fittings

NPTF Pipe	10126 65 Male - Rigid	**JIC 37˚**	10326 65 Male - Rigid	10626 66 Female - Swivel	13726 66 Female - Swivel 45˚ Elbow - Short
13926 66 Female - Swivel 90˚ Elbow - Short	14126 67 Female - Swivel 90˚ Elbow - Long	**SAE 45˚**	10426 67 Male - Rigid	10826 67 Female - Swivel	17726 67 Female - Swivel 45˚ Elbow
17926 68 Female - Swivel 90˚ Elbow	**JIC 37˚/ SAE 45˚ Dual Flare**	16826 68 Female - Swivel	**Inverted Flare**	12826 68 Male - Swivel	16926 69 Male - Swivel 90˚ Elbow
Seal-Lok® (O-Ring Face Seal)	1JC26 69 Female - Swivel Short	1J726 70 Female - Swivel 45˚ Elbow	1J926 70 Female - Swivel 90˚ Elbow - Short	**Tube-O**	1S526 70 Male - Swivel Short Pilot
15R26 71 Male - Swivel 45˚ Elbow - Short Pilot	15K26 71 Male - Swivel 90˚ Elbow - Short Pilot	15K26-PB 71 Male - Swivel 90˚ Elbow - Short Pilot	14526-PT 72 Male - Swivel Long Pilot	15M26-PT 72 Male - Swivel 90˚ Elbow - Long Pilot	15G26 72 Male - Rigid Internal - Long Pilot
15S26 72 Female - Swivel Short Pilot	15H26 73 Female - Swivel 45˚ Elbow - Short Pilot	15T26 73 Female - Swivel 90˚ Elbow - Short Pilot	15926-PB 73 Female - Swivel Long Pilot	15926-PT 73 Female - Swivel Long Pilot	15N26-PB 74 Female - Swivel 45˚ Elbow - Long Pilot
15N26-PT 74 Female - Swivel 45˚ Elbow - Long Pilot	15L26 74 Female - Swivel 90˚ Elbow - Long Pilot	15L26-PB 74 Female - Swivel 90˚ Elbow - Long Pilot	15L26-PT 75 Female - Swivel 90˚ Elbow - Long Pilot	15P26-PT 75 Male - Swivel 45˚ Elbow - Long Pilot	**Air Brake Jounce Line**
17B26 75 Female - Swivel	**Compressor**	15V26 76 Female - Swivel 45˚ Elbow	15W26 76 Female - Swivel 90˚ Elbow	15Z26 76 Female - Swivel 90˚ Elbow - Block Type	1RV26 76 Female - Swivel 135˚ Elbow

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

26 Series Fittings

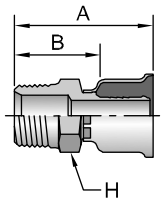
Refrigerant Tube Mender	**1T126** 77  *Male (w/Nut & Ferrule)*	**1T126** 77 *Fitting Assembly Instructions*	**14GZ** 78 *Male Insert O-ring Braze Nut*	**5SGZ** 78 *Female Tube-O Swivel - Short Pilot*	**S5GZ** 78  *Male Tube-O Swivel - Short Pilot*
ZJGZ 79  *Male "C" Plate Seal/ O-ring Block*	**ZKGZ** 79  *Male Encapsulated Slimline Seal Block*	**1ZG26** 79  *Tube with 26 Series Coupling*	**1ZG26-PB** 79  *Tube with High Pressure Charge Port*	**1ZG26-PT** 79  *Tube with Low Pressure Charge Port*	***Brazable***
1S926 81  *Female Slip-Fit Counterbore – Straight*					

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

10126

Male NPTF Pipe - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	H mm	B inch	B mm	Additional Material Brass (B)
10126-2-4	1/8x27	3/16	1.65	42	7/16	0.78	0.78	20	
10126-4-4	1/4x18	3/16	1.88	48	9/16	1.01	1.01	26	
10126-4-5	1/4x18	1/4	1.88	48	9/16	1.01	1.01	26	
10126-4-6	1/4x18	5/16	1.88	48	3/4	1.02	1.02	26	•
10126-6-6	3/8x18	5/16	1.89	48	11/16	1.03	1.03	26	•
10126-6-8	3/8x18	13/32	1.89	48	11/16	1.03	1.03	26	•
10126-8-8	1/2x14	13/32	2.14	54	7/8	1.28	1.28	33	•
10126-8-10	1/2x14	1/2	2.25	57	7/8	1.30	1.30	33	•
10126-12-12	3/4x14	5/8	2.31	59	1-1/16	1.37	1.37	35	
10126-16-16	1x11-1/2	7/8	2.61	66	1-3/8	1.57	1.57	40	
10126-20-20	1-1/4x11-1/2	1-1/8	2.83	72	1-3/4	1.77	1.77	45	
10126-24-24	1-1/2x11-1/2	1-3/8	3.01	76	2	1.93	1.93	49	
10126-32-32	2x11-1/2	1-13/16	3.44	87	2-1/2	2.18	2.18	55	



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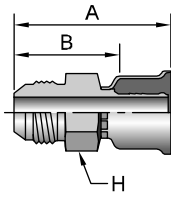
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10326

Male JIC 37˚ - Rigid

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	H mm	B inch	B mm	Additional Material Brass (B)
10326-4-4	1/4	7/16x20	3/16	2.02	50	1/2	1.15	1.15	29	•
10326-6-6	3/8	9/16x18	5/16	2.12	54	3/4	1.26	1.26	32	
10326-8-8	1/2	3/4X16	13/32	1.94	49	13/16	1.08	1.08	27	
10326-10-10	5/8	7/8X14	1/2	2.49	64	15/16	1.54	1.54	39	



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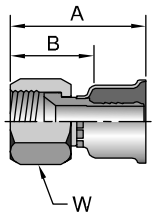
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

10626

Female JIC 37° - Swivel



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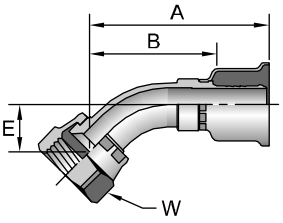
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	W inch	B inch	B mm	Additional Material Brass (B)
10626-6-6	3/8	9/16x18	5/16	1.81	45	11/16	0.95	23	•
10626-6-8	3/8	9/16x18	13/32	1.67	52	11/16	1.19	30	•
10626-12-12	3/4	1-1/16x12	5/8	2.29	58	1-1/4	1.35	34	•
10626-16-16	1	1-5/16x12	7/8	2.53	64	1-1/2	1.49	38	•
10626-20-20	1-1/4	1-5/8x12	1-1/8	2.56	65	2	1.50	38	
10626-24-24	1-1/2	1-7/8x12	1-3/8	2.77	70	2-1/4	1.69	43	
10626-32-32	2	2-1/2x12	1-13/16	3.30	84	2-7/8	2.04	52	

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

13726

Female JIC 37° - Swivel - 45° Elbow - Short Drop



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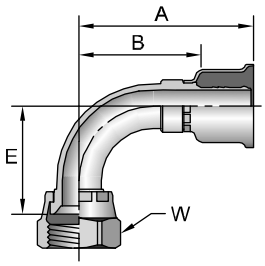
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
13726-4-4	1/4	7/16x20	3/16	2.01	51	0.39	10	9/16	1.14	29
13726-6-6	3/8	9/16x18	5/16	2.72	69	0.43	11	11/16	1.86	47
13726-8-8	1/2	3/4x16	13/32	2.82	72	0.55	15	7/8	1.96	50
13726-10-10	5/8	7/8x14	1/2	2.96	75	0.63	16	1	2.01	51
13726-12-12	3/4	1-1/16x12	5/8	3.44	87	0.83	21	1-1/4	2.50	63
13726-16-16	1	1-5/16x12	7/8	3.34	85	0.90	23	1-1/2	2.30	58
13726-20-20	1-1/4	1-5/8x12	1-1/8	3.74	95	1.18	30	2	2.68	68
13726-24-24	1-1/2	1-7/8x12	1-3/8	3.92	100	1.16	29	2-1/4	2.84	72

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

13926

Female JIC 37° - Swivel - 90° Elbow - Short Drop



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
13926-4-4	1/4	7/16x20	3/16	1.82	46	0.83	21	9/16	0.95	24
13926-6-6	3/8	9/16x18	5/16	2.15	55	0.91	23	11/16	1.29	33
13926-8-8	1/2	3/4x16	13/32	2.22	56	1.09	28	7/8	1.36	35
13926-10-10	5/8	7/8x14	1/2	2.23	57	1.26	32	1	1.28	33
13926-10-12	5/8	7/8x14	5/8	2.52	64	1.23	31	1	1.58	40
13926-12-12	3/4	1-1/16x12	5/8	2.28	58	1.82	46	1-1/4	1.30	34
13926-16-16	1	1-5/16x12	7/8	3.30	84	2.14	54	1-1/2	2.26	57
13926-20-20	1-1/4	1-5/8x12	1-1/8	3.60	91	2.57	65	2	2.62	67
13926-24-24	1-1/2	1-7/8x12	1-3/8	3.92	100	2.82	72	2-1/4	2.84	72

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

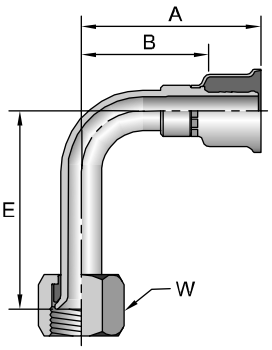
Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

14126

Female JIC 37° - Swivel - 90° Elbow - Long Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
14126-4-4	1/4	7/16x20	1/4	2.05	52	1.81	46	9/16	1.18	30
14126-6-6	3/8	9/16x18	5/16	2.02	51	2.13	54	11/16	1.16	29
14126-8-8	1/2	3/4X16	13/32	2.35	60	2.43	62	7/8	1.49	38
14126-10-10	5/8	7/8x14	1/2	2.11	54	2.76	70	1	1.16	29
14126-16-16	1	1-5/16x12	7/8	3.17	81	4.33	110	1-1/2	2.13	54

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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10426

Male SAE 45° - Rigid

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10426-6-6	3/8	5/8x18	5/16	2.04	52	11/16	1.18	30

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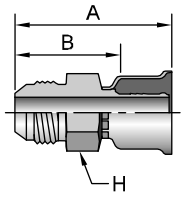

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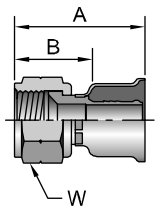
10826

Female SAE 45° - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	W inch	B inch	B mm	Additional Material Brass (B)
10826-6-6	3/8	5/8x18	5/16	1.84	47	3/4	0.98	25	Link
10826-10-8	5/8	7/8x14	13/32	2.21	56	1	1.35	34	
10826-10-10	5/8	7/8x14	1/2	2.13	54	1	1.18	30	
10826-12-12	3/4	1-1/16x14	5/8	2.19	56	1-1/4	1.25	32	Link

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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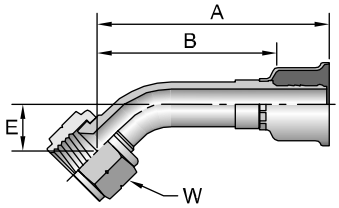
17726

Female SAE 45° - Swivel - 45° Elbow

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
17726-4-4	1/4	7/16x20	3/16	2.29	58	0.39	10	9/16	1.43	36
17726-6-6	3/8	5/8x18	5/16	2.72	69	0.43	11	11/16	1.86	47
17726-8-8	1/2	3/4x16	13/32	2.82	72	0.59	14	7/8	1.96	50
17726-10-10	5/8	7/8x14	1/2	2.96	75	0.63	16	1	2.01	51
17726-12-12	3/4	1-1/16x14	5/8	3.43	87	0.83	21	1-1/4	2.49	63

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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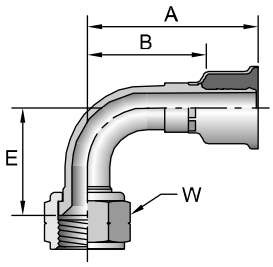
Notch on nut signifies SAE 45° flare fitting.

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

17926

Female SAE 45˚ - Swivel - 90˚ Elbow



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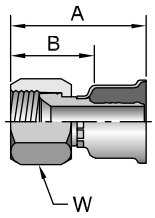
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
17926-4-4	1/4	7/16x20	3/16	1.75	44	0.83	21	9/16	0.89	23
17926-6-6	3/8	5/8x18	5/16	2.15	55	0.91	23	3/4	1.29	33
17926-8-8	1/2	3/4x16	13/32	2.31	58.7	1.00	25.4	7/8	1.45	37
17926-10-10	5/8	7/8x14	1/2	2.23	57	1.26	32	1	1.28	33
17926-12-12	3/4	1-1/16x14	5/8	2.28	58	1.82	46	1-1/4	1.34	34

Notch on nut signifies 45˚ flare fitting.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

16826

Female JIC 37˚ / SAE 45˚ - Dual Flare - Swivel



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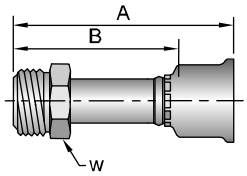
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	W inch	B inch	B mm	Additional Material Brass (B)
16826-4-4	1/4	7/16x20	3/16	1.67	42	9/16	0.80	20	•
16826-4-5	1/4	7/16x20	1/4	1.55	48	9/16	1.03	26	
16826-4-6	1/4	7/16x20	5/16	1.92	49	9/16	1.06	27	
16826-5-5	5/16	1/2x20	1/4	1.77	45	5/8	0.90	23	
16826-8-6	1/2	3/4x16	5/16	1.76	56	7/8	1.34	34	
16826-8-8	1/2	3/4x16	13/32	1.91	49	7/8	1.05	27	
16826-8-10	1/2	3/4x16	1/2	2.36	60	7/8	1.41	36	•
16826-10-10	5/8	7/8x14	1/2	2.17	55	1	1.23	31	•
16826-10-12	5/8	7/8x14	5/8	1.96	61	1	1.53	37	

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

12826

Male Inverted SAE 45˚ - Swivel



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	W inch	B inch	B mm
12826-4-4	1/4	7/16x24	3/16	2.43	62	7/16	1.56	40
12826-5-5	5/16	1/2x20	1/4	2.56	65	1/2	1.69	43
12826-6-6	3/8	5/8x18	5/16	2.87	73	5/8	2.01	51
12826-8-8	1/2	3/4x18	13/32	3.00	76	3/4	2.14	54
12826-10-10	5/8	7/8x18	1/2	3.17	81	7/8	2.22	56

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

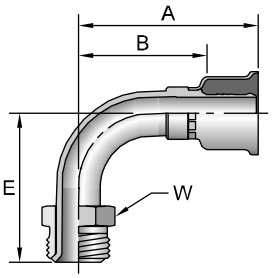
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

16926

Male Inverted SAE 45˚ - Swivel - 90˚ Elbow

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
16926-4-4	1/4	7/16x24	3/16	2.27	58	1.56	40	7/16	1.40	36
16926-6-6	3/8	5/8x18	5/16	1.89	48	1.48	38	5/8	1.03	26
16926-8-8	1/2	3/4x18	13/32	2.25	57	1.88	48	3/4	1.39	35



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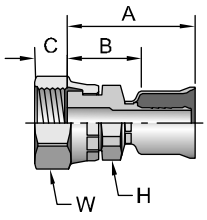
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1JC26

Female Seal-Lok® - Swivel - Short

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	C inch	C mm	H inch	W inch	B inch	B mm
1JC26-4-4	1/4	9/16x18	3/16	1.66	42	0.31	8	9/16	11/16	0.79	20
1JC26-6-6	3/8	11/16x16	5/16	1.70	43	0.34	9	11/16	13/16	0.84	21
1JC26-8-8	1/2	13/16x16	13/32	1.76	45	0.43	11	13/16	15/16	0.90	23
1JC26-10-10	5/8	1x14	1/2	2.16	55	0.53	13	15/16	1-1/8	1.21	31
1JC26-12-12	3/4	1-3/16x12	5/8	2.13	54	0.55	14	1-1/8	1-3/8	1.19	30
1JC26-16-16	1	1-7/16x12	7/8	2.39	61	0.56	14	1-3/8	1-5/8	1.35	34
1JC26-20-20	1-1/4	1-11/16x12	1-1/8	2.45	62	0.59	15	1-7/8	1-7/8	1.39	35



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When measuring overall length to the end of the nut, B + C must be used to calculate cut-off allowance.

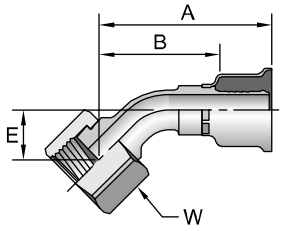
See Accessories Section for O-Rings.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

1J726

Female Seal-Lok® - Swivel - 45° Elbow



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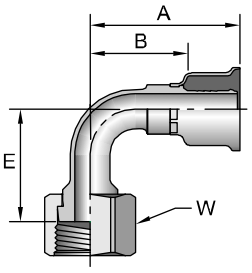
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J726-4-4	1/4	9/16x18	3/16	1.99	51	0.39	10	11/16	1.12	28
1J726-6-6	3/8	11/16x16	5/16	2.43	62	0.43	11	13/16	1.57	40
1J726-8-8	1/2	13/16x16	13/32	2.77	70	0.59	15	15/16	1.91	49
1J726-10-10	5/8	1x14	1/2	3.26	83	0.63	16	1-1/8	2.31	59
1J726-12-12	3/4	1-3/16x12	5/8	3.13	80	0.83	21	1-3/8	2.19	56
1J726-16-16	1	1-7/16x12	7/8	3.61	92	0.94	24	1-5/8	2.57	65
1J726-20-20	1-1/4	1-11/16x12	1-1/8	3.93	100	1.00	25	1-7/8	2.87	73

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J926

Female Seal-Lok® - Swivel - 90° Elbow - Short Drop



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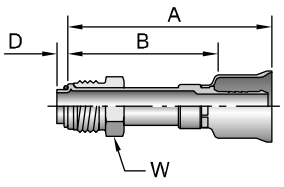
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J926-4-4	1/4	9/16x18	3/16	1.80	46	0.83	21	11/16	0.93	24
1J926-6-6	3/8	11/16x16	5/16	1.86	47	0.91	23	13/16	1.00	25
1J926-8-8	1/2	13/16X16	13/32	2.14	54	1.14	29	15/16	1.28	33
1J926-10-10	5/8	1x14	1/2	2.53	64	1.26	32	1-1/8	1.58	40
1J926-12-12	3/4	1-3/16x12	5/8	2.51	64	1.89	48	1-3/8	1.57	40
1J926-16-16	1	1-7/16X12	7/8	3.56	90	2.21	56	1-5/8	2.52	64
1J926-20-20	1-1/4	1-11/16X12	1-1/8	4.05	103	2.51	64	1-7/8	2.99	76

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1S526

Male Tube-O - Swivel - Short Pilot



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	W inch	B inch	B mm
1S526-6-6	3/8	5/8x18	5/16	2.54	65	0.18	4,7	5/8	1.68	43
1S526-8-8	1/2	3/4x18	13/32	2.68	68	0.18	4,7	3/4	1.82	46
1S526-10-10	5/8	7/8x18	1/2	3.46	88	0.18	4,7	7/8	2.51	64
1S526-10-12	5/8	7/8x18	5/8	3.63	92	0.18	4,7	7/8	2.69	68
1S526-12-12	3/4	1-1/16x16	5/8	4.00	102	0.18	4,7	1-1/16	3.06	78

When measuring overall length to the end of the nut, B+D must be used to calculate cut-off allowance.

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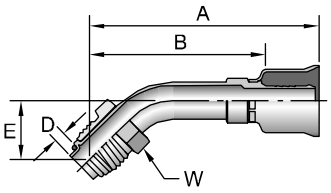
See Accessories Section for O-Rings.

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

15R26

Male Tube-O - Swivel - 45° Elbow - Short Pilot

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	W inch	B inch	B mm
15R26-6-6	3/8	5/8x18	5/16	2.52	64	0.18	4,7	0.85	22	5/8	1.66	42
15R26-8-8	1/2	3/4x18	13/32	2.53	64	0.18	4,7	1.05	27	3/4	1.67	42
15R26-10-10	5/8	7/8x18	1/2	2.99	76	0.18	4,7	1.25	32	7/8	2.04	52
15R26-10-12	5/8	7/8x18	5/8	3.16	80	0.18	4,7	1.25	32	7/8	2.22	56



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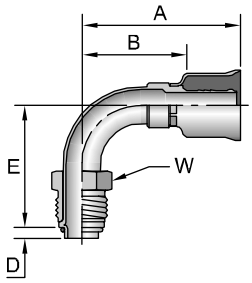
15K26

Male Tube-O - Swivel - 90° Elbow - Short Pilot

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	W inch	B inch	B mm
15K26-6-6	3/8	5/8X18	5/16	2.06	52	0.18	4,7	1.76	45	5/8	1.19	30
15K26-8-8	1/2	3/4x18	13/32	2.06	52	0.18	4,7	1.74	44	3/4	1.20	30
15K26-10-10	5/8	7/8x18	1/2	2.34	59	0.18	4,7	2.20	56	7/8	1.39	35
15K26-10-12	5/8	7/8x18	5/8	2.51	64	0.18	4,7	2.20	56	7/8	1.57	40



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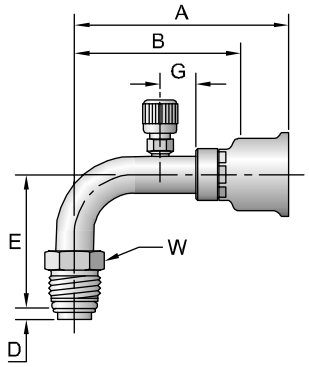
15K26-PB

Male Tube-O - Swivel - 90° Elbow - Short Pilot
with High Pressure Charge Port for R134a

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	G inch	G mm	W inch	B inch	B mm
15K26-8-8-PB	1/2	3/4x18	13/32	2.70	69	0.18	4,6	1.74	44	0.60	15	3/4	1.88	48



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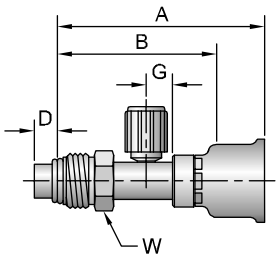
Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

14526-PT

Male Tube-O - Swivel - Long Pilot With
With Low Pressure Charge Port for R134a



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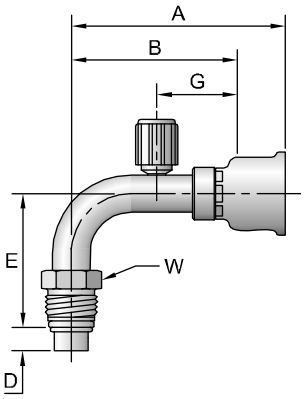
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	G inch	G mm	W inch	B inch	B mm
14526-10-12-PT	5/8	7/8x18	5/8	3.45	88	0.38	9,8	0.44	11	7/8	2.51	64

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

15M26-PT

Male Tube-O - Swivel - 90° Elbow - Long Pilot
With Low Pressure Charge Port for R134a



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	G inch	G mm	W inch	B inch	B mm
15M26-10-12-PT	5/8	7/8x18	5/8	3.25	83	0.38	9,8	2.25	57	0.60	15	7/8	2.31	59

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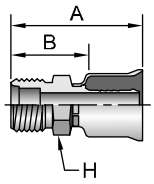
15G26

Male Tube-O - Rigid - Internal Long Pilot (3-Step)



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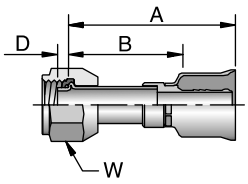
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
15G26-6-6	3/8	5/8x18	5/16	1.78	45	0.625	0.92	23
15G26-8-8	1/2	3/4x16	13/32	1.95	50	3/4	1.09	28
15G26-10-10	5/8	7/8x14	1/2	4.05	103	7/8	3.10	79
15G26-10-12	5/8	7/8x14	5/8	2.19	56	0.875	1.25	32

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

15S26

Female Tube-O - Swivel - Short Pilot



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	W inch	B inch	B mm
15S26-6-6	3/8	5/8x18	5/16	2.54	65	0.18	4,7	3/4	1.68	43
15S26-8-8	1/2	3/4x16	13/32	2.68	68	0.18	4,7	7/8	1.82	46
15S26-10-10	5/8	7/8x14	1/2	2.84	72	0.18	4,7	1-1/16	1.89	48
15S26-10-12	5/8	7/8x14	5/8	3.63	92	0.18	4,7	1-1/16	2.69	68
15S26-12-12	3/4	1-1/16x14	5/8	4.00	102	0.18	4,7	1-1/4	3.06	78

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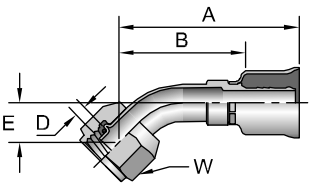
Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

15H26

Female Tube-O - Swivel 45˚ Elbow - Short Pilot

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	W inch	B inch	B mm
15H26-6-6	3/8	5/8x18	5/16	2.35	60	0.18	4,7	0.54	14	3/4	1.49	38
15H26-8-8	1/2	3/4x16	13/32	2.48	63	0.18	4,7	0.60	15	7/8	1.62	41
15H26-10-10	5/8	7/8x14	1/2	3.23	82	0.18	4,7	0.67	17	1 1/16	2.28	58
15H26-10-12	5/8	7/8x14	5/8	3.43	87	0.18	4,7	0.67	17	1-1/16	2.46	62



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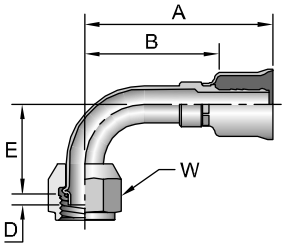
15T26

Female Tube-O - Swivel - 90˚ Elbow - Short Pilot

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	W inch	B inch	B mm
15T26-6-6	3/8	5/8x18	5/16	1.89	48	0.18	4,7	1.15	29	3/4	1.03	26
15T26-8-8	1/2	3/4x16	13/32	2.34	59	0.18	4,7	1.46	37	7/8	1.48	38
15T26-10-10	5/8	7/8x14	1/2	2.08	53	0.18	4,7	1.75	44	1-1/16	1.08	27
15T26-10-12	5/8	7/8x14	5/8	2.20	56	0.18	4,7	1.53	39	1-1/16	1.26	32
15T26-12-12	3/4	1-1/16x14	5/8	2.63	67	0.18	4,7	1.75	44	1-1/4	1.69	43



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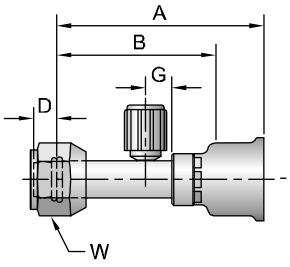
15926-PB

Female Tube-O - Swivel - Long Pilot
With High Pressure Charge Port for R134a

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	G inch	G mm	W inch	B inch	B mm
15926-6-6-PB	3/8	5/8x18	5/16	3.25	83	0.28	7,1	0.75	19	3/4	2.39	61
15926-8-8-PB	1/2	3/4x16	13/32	2.74	70	0.38	9,8	0.50	13	7/8	1.88	48



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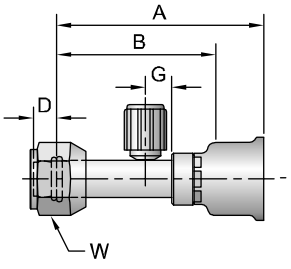
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

15926-PT

Female Tube-O - Swivel - Long Pilot
With Low Pressure Charge Port for R134a

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	G inch	G mm	W inch	B inch	B mm
15926-10-12-PT	5/8	7/8x14	5/8	3.47	88	0.38	9,8	0.60	15	1-1/16	2.53	64



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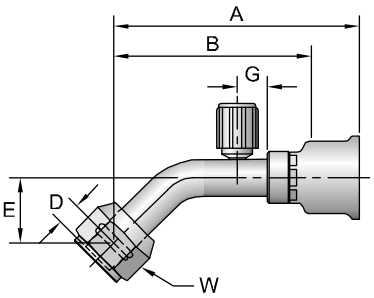
Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

15N26-PB

Female Tube-O - Swivel - 45° Elbow - Long Pilot
With High Pressure Charge Port for R134a



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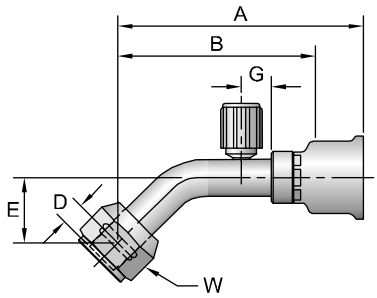
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	G inch	G mm	W inch	B inch	B mm
15N26-8-8-PB	1/2	3/4x16	13/32	3.67	93	0.38	9,8	0.90	23	0.60	15	7/8	2.81	72

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

15N26-PT

Female Tube-O - Swivel - 45° Elbow - Long Pilot
With Low Pressure Charge Port for R134a



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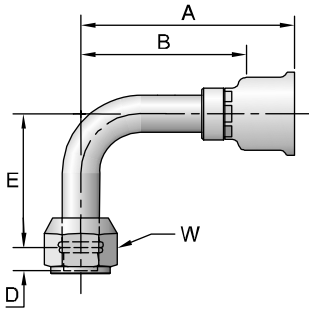
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	G inch	G mm	W inch	B inch	B mm
15N26-10-12-PT	5/8	7/8x14	5/8	3.92	100	0.38	9,8	1.21	31	0.60	15	1-1/16	2.98	76

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

15L26

Female Tube-O - Swivel - 90° Elbow - Long Pilot



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	W inch	B inch	B mm
15L26-8-8	1/2	3/4x16	13/32	2.14	54	0.38	9,8	1.46	37	7/8	1.28	33

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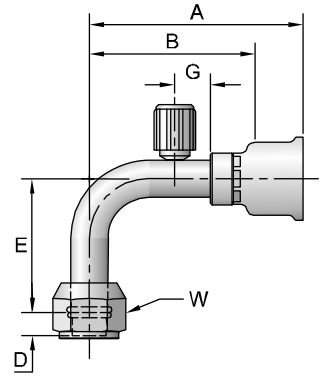
15L26-PB

Female Tube-O - Swivel - 90° Elbow - Long Pilot
With High Pressure Charge Port for R134a



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	G inch	G mm	W inch	B inch	B mm
15L26-6-6-PB	3/8	5/8x18	5/16	2.50	64	0.28	7,1	1.22	31	0.50	13	3/4	1.64	42
15L26-8-8-PB	1/2	3/4x16	13/32	2.80	71	0.38	9,8	1.46	37	0.60	15	7/8	1.94	49

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

15L26-PT

Female Tube-O - Swivel - 90° Elbow - Long Pilot
With Low Pressure Charge Port for R134a

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	G inch	G mm	W inch	B inch	B mm
15L26-10-10-PT	5/8	7/8X14	1/2	2.95	75	0.38	9,8	2.25	57	0.60	15	1-1/16	2.00	51
15L26-10-12-PT	5/8	7/8x14	5/8	3.25	83	0.38	9,8	2.25	57	0.60	15	1-1/16	2.31	59

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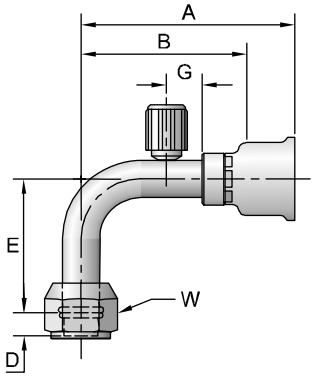

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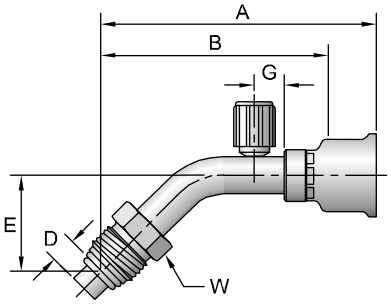
15P26-PT

Male Tube-O - Swivel - 45° Elbow - Long Pilot
With Low Pressure Charge Port for R134a

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	D inch	D mm	E inch	E mm	G inch	G mm	W inch	B inch	B mm
15P26-10-12-PT	5/8	7/8x18	5/8	3.81	97	0.38	9,8	1.21	31	0.60	15	7/8	2.87	73

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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17B26

Female Air Brake Jounce Line - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	W inch	B inch	B mm
17B26-8-6BA	1/2	3/4x20	5/16	1.75	44	11/16	0.89	23
17B26-8-8BA	1/2	3/4x20	13/32	1.75	44	11/16	0.89	23

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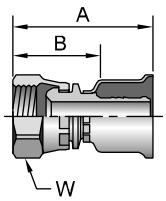

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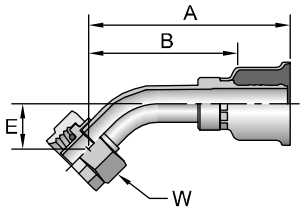
Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

15V26

Female Compressor - Swivel - 45˚ Elbow



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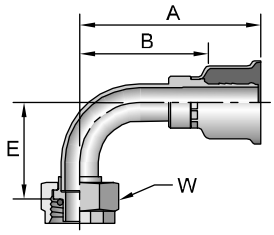
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
15V26-12-8	1x14	13/32	2.72	69	0.75	19	1-1/8	1.86	47
15V26-12-12	1x14	5/8	3.39	86	0.76	19	1-1/8	2.45	62

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

15W26

Female Compressor - Swivel - 90˚ Elbow



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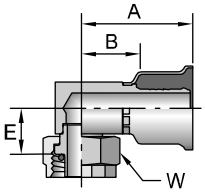
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
15W26-12-8	1x14	13/32	2.24	57	1.25	32	1.125	1.38	35
15W26-12-12	1x14	5/8	3.04	77	1.63	41	1.125	2.10	53

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

15Z26

Female Compressor - Swivel - 90˚ Elbow - Block Type



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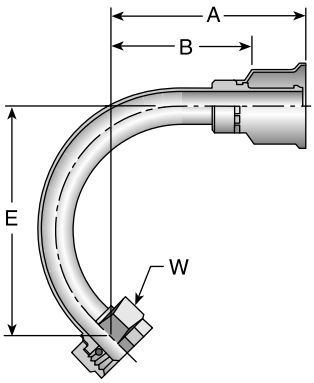
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
15Z26-12-8	1X14	13/32	1.79	45	0.80	20	1.125	0.93	24
15Z26-12-12	1X14	5/8	1.87	47	0.80	20	1.125	0.93	24

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1RV26

Female Compressor - Swivel - 135˚ Elbow



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# Part Number	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1RV26-12-8	13/32	3.24	82	3.21	82	1-1/8	2.38	60
1RV26-12-12	5/8	2.32	59	3.21	82	1-1/8	1.38	35

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

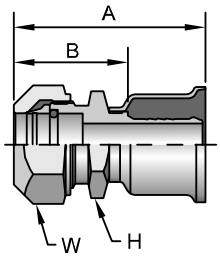
1T126

Male Refrigerant Tube Mender

(with Nut and Ferrule)

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
1T126-6-6	3/8	5/8x18	5/16	1.96	50	11/16	1.10	28
1T126-8-8	1/2	3/4x16	13/32	2.07	53	13/16	1.21	31
1T126-10-10	5/8	7/8x14	1/2	2.28	58	15/16	1.33	34
1T126-10-12	5/8	7/8x14	5/8	2.27	58	15/16	1.33	34
1T126-12-12	3/4	1-1/16x14	5/8	2.33	59	1-1/8	1.39	35

1T126 Assembly instructions below.



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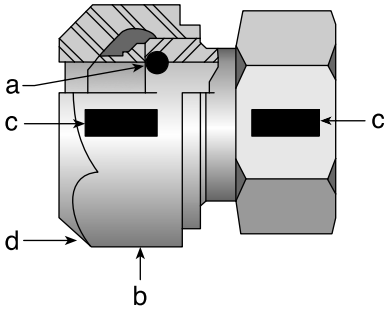
1T126

Fitting Installation Instructions



1. Cut the tube off squarely next to the hose fitting. At least 7/8" straight length is required and the outside diameter of the tube should be smooth and free from deep lengthwise scratches.

2. To prevent cutting the inside of the O-Ring, smoothly chamfer the outside diameter of the cut end 15˚ to 30˚. Deburr the inside diameter.

3. Remove the nut, compression sleeve, and O-Ring from the fitting and lubricate the O-Ring with a lubricant that is compatible with the refrigerant used in the system.

4. Place the lubricated O-Ring in the counterbore of the fitting.

5. Slip the compression sleeve, small end, into the nut and assemble the nut on the fitting finger-tight. Make sure the compression sleeve is not cocked in the nut. Back the nut off 1/6 to 1/3 turn (one to two hex flats).

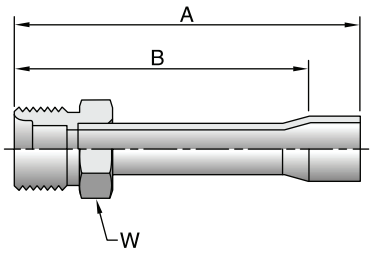
6. Insert the chamfered tube end through the nut into the fitting. If high resistance is felt when the end of the tube contacts the O-Ring, remove the tube. The end of the tube may require a large chamfer and/or the O-Ring may require more lubrication on the inside diameter. Repeat the previous steps.

7. (a) Make sure the tube is bottomed in the fitting
   (b) Tighten the nut finger tight
   (c) Mark the fitting and nut hex indicating the starting point (see illustration)
   (d) Wrench tighten the nut 1 to 1-1/6 turns (6 to 7 hex flats).

8. Later, if it is ever necessary to loosen the connection, re-assemble the nut 1/6 turn (one hex flat) after finger tight.

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

Hose Products Division prides itself on delivering exceptional quality and reliability when it comes to air conditioning components. Parker's male and female end tube connections with or without a pilot as well as our 26 series fittings for hose connections were specifically designed for the rigorous requirements of automotive, mobile, bus and transit applications. Utilizing both of these types of fittings as well as our 285 hose will give you the ability to make your own custom hose tube assembly for air conditioner applications.



14GZ

Male Insert O-ring Braze Nut

# Part Number	Thread inch		A inch	A mm	W inch	B inch	B mm
14GZ-6-6	3/8	5/8 - 18	4.0	101.6	5/8	3.62	92.0
14GZ-8-8	1/2	3/4 - 16	4.0	101.6	3/4	3.62	92.0
14GZ-10-10	5/8	7/8 - 14	4.0	101.6	7/8	3.62	92.0

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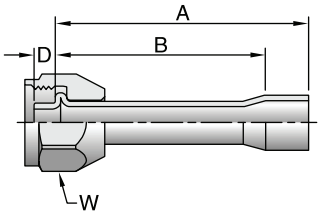

5SGZ

Female Tube-O - Swivel - Short Pilot

# Part Number	Thread inch		A inch	A mm	D inch	D mm	W inch	B inch	B mm
5SGZ-6-6	3/8	5/8 - 18	4.0	101.6	0.18	4.7	3/4	3.62	92.0
5SGZ-8-8	1/2	3/4 - 16	4.0	101.6	0.18	4.7	7/8	3.62	92.0
5SGZ-10-10	5/8	7/8 - 14	4.0	101.6	0.18	4.7	1 1/16	3.62	92.0

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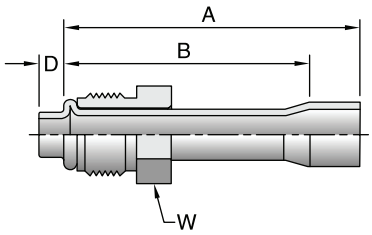

S5GZ

Male Tube-O - Swivel - Short Pilot

# Part Number	Thread inch		A inch	A mm	D inch	D mm	W inch	B inch	B mm
S5GZ-6-6	3/8	5/8 - 18	4.0	101.6	0.18	4.7	5/8	3.62	92.0
S5GZ-8-8	1/2	3/4 - 18	4.0	101.6	0.18	4.7	3/4	3.62	92.0
S5GZ-10-10	5/8	7/8 - 18	4.0	101.6	0.18	4.7	7/8	3.62	92.0

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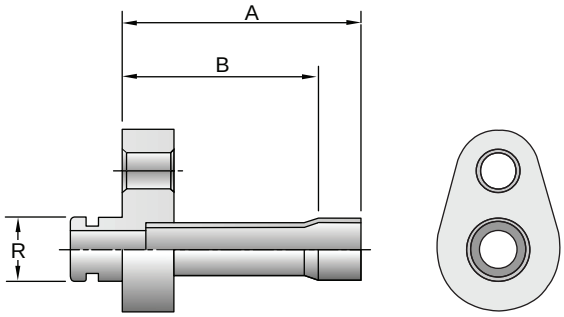
Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

ZJGZ

Male “C” Plate Seal / O-ring Block

# Part Number	A inch	A mm	R inch	R mm	B inch	B mm
ZJGZ-8-8	4.0	101.6	0.606	15.4	3.62	92.0



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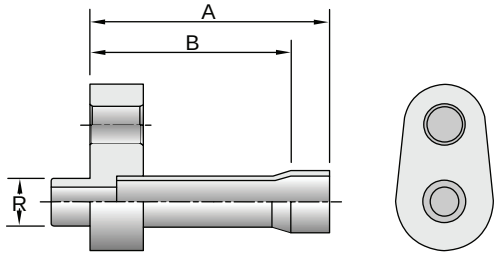
ZKGZ

Male Encapsulated Slimline Seal Block

# Part Number	A inch	A mm	R inch	R mm	B inch	B mm
ZKGZ-8-8	4.0	101.6	0.459	11.65	3.62	92.0



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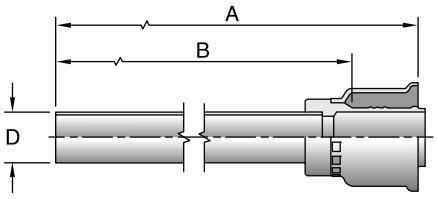
1ZG26

Tube with 26 Series Coupling

# Part Number	Hose I.D. inch		A inch	A mm	D inch	D mm	B inch	B mm
1ZG26-6-6	5/16	-6	25.8	654	3/8	9.5	24	609
1ZG26-8-8	13/32	-8	25.8	654	1/2	12.7	24	609
1ZG26-10-10	1/2	-10	25.8	654	5/8	15.9	24	609



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1ZG26-PB

Tube with High Pressure Charge Port

# Part Number	Hose I.D. inch		A inch	A mm	D inch	D mm	Charge Port	B inch	B mm
1ZG26-6-6-PB	5/16	-6	25.8	654	3/8	9.5	368014	24	609

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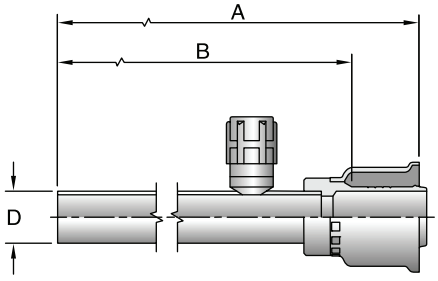
1ZG26-PT

Tube with Low Pressure Charge Port

# Part Number	Hose I.D. inch		A inch	A mm	D inch	D mm	Charge Port	B inch	B mm
1ZG26-10-10-PT	1/2	-10	25.8	654	5/8	15.9	737826	24	609



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Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

Instructions for Custom Hose Assembly Repairs

Learn how to select the appropriate fittings and couplings to properly prepare tube and hose assemblies that meet SAE J2064 requirements below.

1. **FITTING SELECTION**
   The first thing to determine when making a custom hose tube assembly are the fittings to use. Utilizing both tube couplings and hose fittings will give you the ability to make your own custom hose assembly that can be bent to fit a variety of applications.

2. **TUBE PREPARATION**
   Next you will need to cut the tube end to achieve the desired length using a Parker Kloskut or similar tubing cutter. Many times, an assembly will only be repaired due to a quality issue with the fitting and doesn't require a complete replacement. In those circumstances, simply cut the tube in a location that enables you to easily replace that particular fitting. Kloskut tube cutters feature a hardened and burnished tool-steel cutting wheel, flare cut-off grooves in rollers for removal of old flares and a swing-away reamer for removing internal burrs.

3. **BRAZING**
   The third step in the assembly process is to braze both the tube coupling and hose fitting shell to each end of the tube.

4. **CLEANING**
   After the brazed area has been cleaned and dried, it is recommended that the brazed area be spray painted to prevent rust from forming in the area where the plating on the parts was removed during the brazing process. After you've brazed the assembly, you have to clean it. To make cleaning easier, add braze cleaner to the hot water. This sudden cooling cracks the braze flux residue, making it easier to remove. Any remaining residue can be removed by careful wire brushing. Braze cleaner does not provide corrosion protection.

5. **CORROSION PROTECTION**
   This is an extremely important step following brazing and even more so following the use of a braze cleaner. The residue left on the surface by the cleaner, especially on the I.D. of the tube, can cause rusting in carbon steel tubes rather quickly if it is not neutralized. Therefore, it is important to neutralize the cleaner residue after cleaning with a solution such as Bernite 1362 (mix 4 ounces of Bernite 136 with one gallon of water).

6. **PAINTING**
   After the brazed area has been cleaned and dried, it is recommended that the brazed area be spray painted to prevent rust from forming in the area where the plating on the parts was removed during the brazing process.

7. **BENDING TUBE END**
   The tube ends can be custom cut and bent after brazing.

8. **HOSE SELECTION**
   The last step in the process is choosing the proper hose to be attached to the newly created tube assembly. Parker's 285 hose is designed specifically for the rigorous requirements automotive, mobile, bus and transit applications. This air conditioning hose has a long service life, resists moisture ingression and minimizes refrigerant permeation due to a nylon barrier. Our 285 hose is Parkrimp compatible and is available in from -4 to -12 sizes. Hoses should be cut to desired length using Parker's cut-off tool prior to crimping.

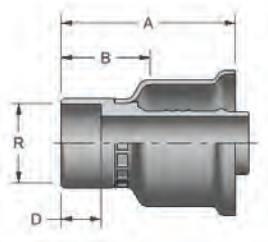
9. **HOSE CRIMPING**
   To properly attach 26 series fittings to Parker's 285 hose, please reference CrimpSource for crimping instructions. CrimpSource is Parker's exclusive online software application that supplies you with the necessary crimp specifications in order to adhere to our strict safety standards. You can access CrimpSource by visiting www.parker.com/crimpsource

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

1S926

Female Slip-Fit Counterbore for Brazing - Straight

(Inch Size Tube O.D)



view on web page

# Part Number	Tube Size and Material	Tube Diameter R	Counter Bore Depth D	Cut-Off B	End of Shell A	Maximum Working Pressure for Fitting**	Hose I.D.
1S926-6-6	3/8" OD x .035" wall SAE J525	0.375	0.34	1.20	2.06	2,250	3/8"
1S926-8-8	1/2" OD x .049" wall SAE J525	0.500	0.34	1.19	2.05	2,000	1/2"
1S926-8-10	1/2" OD x .049" wall SAE J525	0.500	0.34	1.21	2.17	1,750	5/8"
1S926-12-12	3/4" OD x .065" wall SAE J525	0.750	0.49	1.38	2.32	1,500	3/4"

ALL 1S926 FITTINGS ARE SHIPPED WITHOUT PLATING AND WILL REQUIRE PLATING OR PAINTING AFTER THE BRAZING PROCESS

Caution: Braze joint designed for silver braze only.

Fitting maximum working pressure rating has to be greater than or equal to the hose maximum working pressure.

****Pressure rating based on SAE J525 tubing and recommended wall thickness noted.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

Silver Brazing

Silver brazing is the method of attaching the '1S9' braze nipple to the tube end. This process can be accomplished by using an induction brazing unit. (Note: induction brazing units are not available through Hose Products Division). During the heating process, the pre-formed braze ring is melted between the tube O.D. and the braze nipple counter-bore I.D., creating a strong bond between the two components.

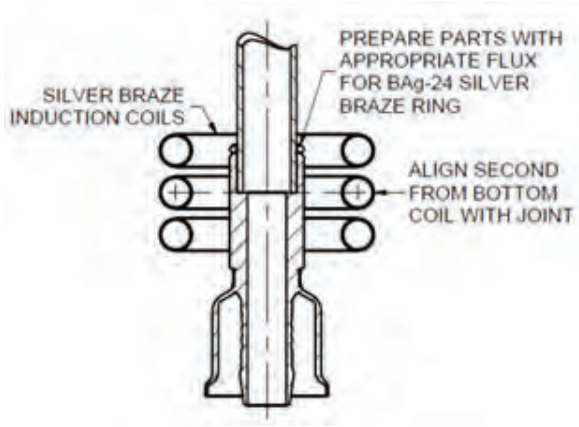
Brazing Steps:

1. **Cleaning the tube end:** All oil and oxide build-up must be removed from the tube end for at least the length of the braze joint. Oil may be removed by using an oil-free solvent. Oxide build-up may be removed by pickling or by lightly sanding with an aluminum-free emery paper.

2. **Fixturing the parts for brazing:** Care should be taken so the braze fixture allows the tube to settle and seat on the bottom of the counter-bore completely during heating. Since the braze nipple counter-bore is designed for a slip fit, this should happen easily. Short tubes can be brazed in the vertical position. On longer tubes, the joint may need to be in the horizontal position, requiring a slight nudge to seat the tube at the bottom of the counter-bore on the braze nipple.

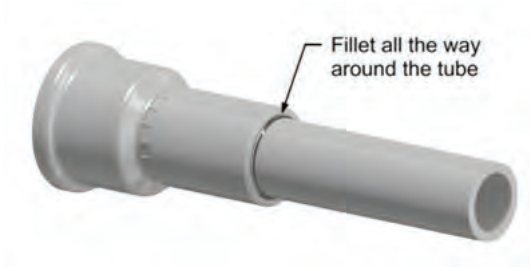
3. **Applying flux:** Apply proper flux on to the tube end, braze nipple face and outside surface. Slide appropriate braze ring on tube and seat tube at bottom of counter-bore on braze nipple. The flux helps protect the parts from oxidizing and promotes braze flow.

5. **Heating the part:** Apply heat uniformly to the joint by using an induction braze unit. Proper brazing involves heating the assembly to brazing temperature and flowing the filler metal through the joint. Heat should be applied broadly and uniformly to the tube as well as the upper body of the braze nipple. Thicker fitting and tubing sections take longer to heat. The tube and upper body of the braze nipple should heat to brazing temperature at about the same time. The braze alloy will always flow towards the area of higher temperature. In the drawing shown, the pre-formed BAg-24 silver braze ring has been placed on the tube at the top of the braze nipple counter-bore. The braze material will flow to the bottom of the counter-bore.



6. **Cleaning the brazed joint:** After stopping heat application, allow the product to air cool. Any remaining residue can be removed by careful wire brushing or standard cleaning procedures to remove traces of discoloration and excess flux residue.

7. **Corrosion protection after brazing:** This is an extremely important step following brazing. If the brazed parts are not to be plated or painted soon after brazing, a coating of rust inhibitors such as WD-403 or SP-3504 is recommended for the braze and heat affected area.



Inspection of Brazing

Inspect the braze for a fillet all the way around the tube at the top of the counter-bore on the braze nipple.

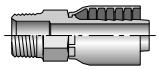
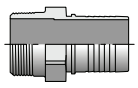
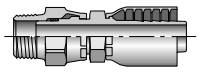
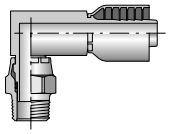
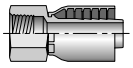
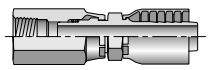
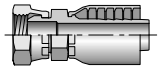
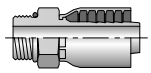
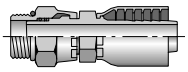
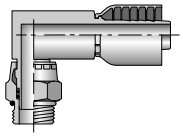
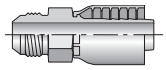
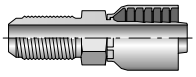
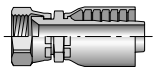
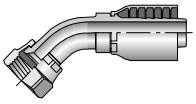
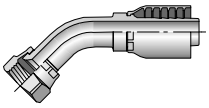
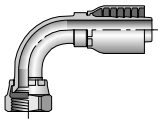
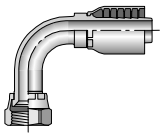
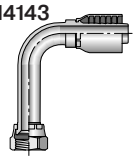
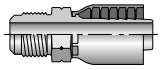
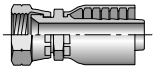
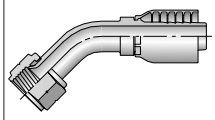
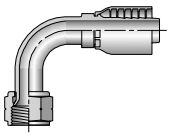
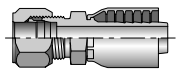
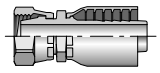
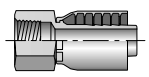
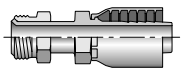
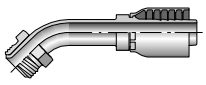
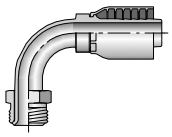
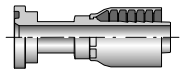
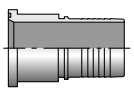
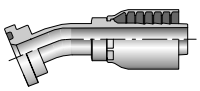
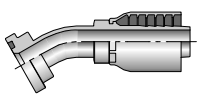
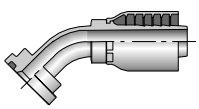
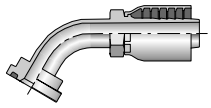
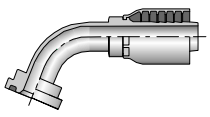
Caution: If there are gaps in the fillet, the joint may not be sound. In this case, re-brazing is recommended. Remove the braze nipple and re-braze a new one in its place.

3) A product of WD-40 Company, San Diego, CA 92220.
4) A product of CRC Chemicals, USA, Warminister, PA 18974 (215) 674-4300

NOTE: All S9 fittings are shipped WITHOUT PLATING and will need to be plated or painted once the brazing process is completed.

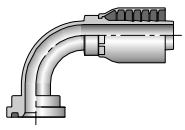
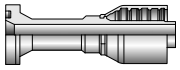
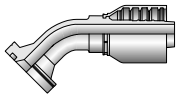
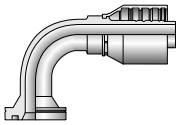
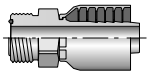
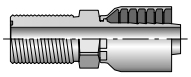
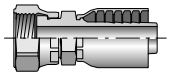
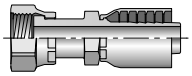
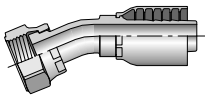
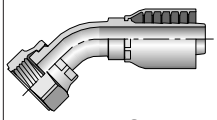
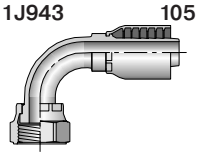
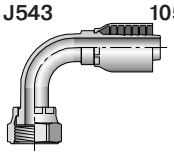
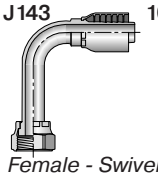
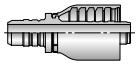
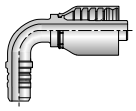
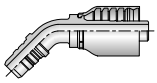
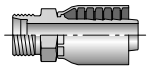
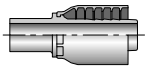
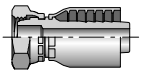
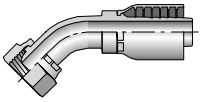
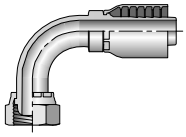
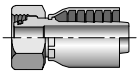
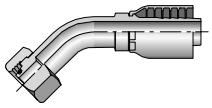
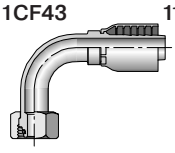
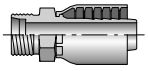
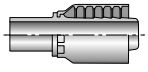
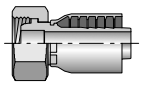
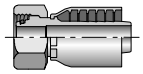
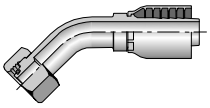
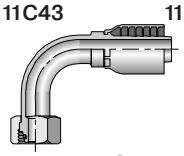
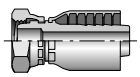
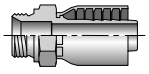
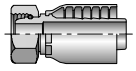
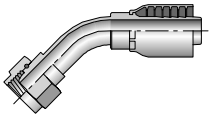
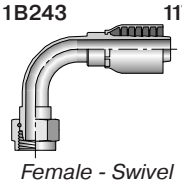
Use with hoses: 201, 206, 213, 221FR, 244, 266, 285, 293, SS25UL, SS25UL-AGA

43 Series Fittings

NPTF/ NPSM Pipe	10143 86  Male - Rigid	0143 86  Flange Head	11343 87  Male - Swivel	11L43 87  Male - Swivel 90˚ Elbow	10243 88  Female - Rigid
1S243 88  Female - Swivel	10743 88  Female - Swivel	**Straight Thread O-Ring**	10543 89  Male - Rigid	10G43 89  Male - Swivel	10L43 90  Male - Swivel 90˚ Elbow
JIC 37˚	10343 90  Male - Rigid	1LB43 91  Male - Bulkhead	10643 91  Female - Swivel	13743 92  Female - Swivel 45˚ Elbow - Short	1L743 92  Female - Swivel 45˚ Elbow - Medium
13943 93  Female - Swivel 90˚ Elbow - Short	1L943 93  Female - Swivel 90˚ Elbow - Medium	14143 94  Female - Swivel 90˚ Elbow - Long	**SAE 45˚**	10443 94  Male - Rigid	10843 94  Female - Swivel
17743 95  Female - Swivel 45˚ Elbow	17943 95  Female - Swivel 90˚ Elbow	**Flareless**	11143 95  Male - Rigid	11243 96  Female - Swivel	1GJ43 96  Female - Rigid
Inverted Flare	12843 96  Male - Swivel	16743 96  Male - Swivel 45˚ Elbow	16943 97  Male - Swivel 90˚ Elbow	**Code 61 Flange**	11543 97  Flange Head
1543 97  Flange Head	11643 98  22-1/2˚ Elbow	12643 98  30˚ Elbow	11743 98  45˚ Elbow	12743 99  60˚ Elbow	11843 99  67-1/2˚ Elbow

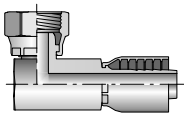
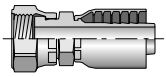
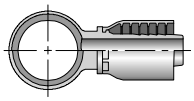
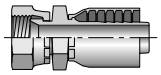
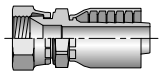
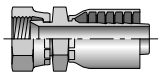
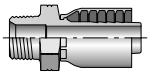
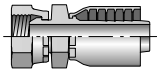
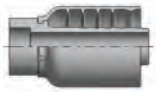
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

43 Series Fittings

11943 99  90˚ Elbow	**Code 62 Flange**	16A43 100  Flange Head	16F43 100  45˚ Elbow	16N43 100  90˚ Elbow	**Seal-Lok® (O-Ring Face Seal)**
1J043 101  Male - Rigid w/O-Ring	1JB43 101  Male - Bulkhead w/O-Ring	1JC43 102  Female - Swivel Short	1JS43 103  Female - Swivel Long	1J643 103  Female - Swivel 22-1/2˚ Elbow	1J743 104  Female - Swivel 45˚ Elbow
1J943 105  Female - Swivel 90˚ Elbow - Short	1J543 105  Female - Swivel 90˚ Elbow - Medium	1J143 106  Female - Swivel 90˚ Elbow - Long	**UPTC**	1EN43 108  Male	1ET43 108  Male 90˚ Elbow
1EU43 108  Male 45˚ Elbow	**DIN “L” Series & DIN “L” w/O-Ring**	1D043 109  Male - Rigid	11D43 109  Male Standpipe Rigid	1C343 110  Female - Swivel	1C443 110  Female - Swivel 45˚ Elbow
1C543 110  Female - Swivel 90˚ Elbow	1CA43 111  Female - Swivel	1CE43 111  Female - Swivel 45˚ Elbow	1CF43 112  Female - Swivel 90˚ Elbow	**DIN “S” Series & DIN “S” w/O-Ring**	1D243 112  Male - Rigid
13D43 113  Male Standpipe Rigid	1C643 113  Female - Swivel	1C943 114  Female - Swivel	10C43 115  Female - Swivel 45˚ Elbow	11C43 115  Female - Swivel 90˚ Elbow	**DIN 60˚ Cone**
1C043 114  Female - Swivel	**BSP**	1D943 116  Male - Rigid	19243 116  Female - Swivel	1B143 117  Female - Swivel 45˚ Elbow	1B243 117  Female - Swivel 90˚ Elbow

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

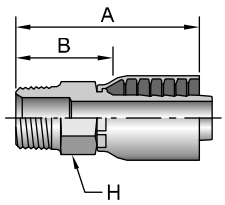
43 Series Fittings

1B443 117  *Female - Swivel 90˚ Elbow - Block Type*	**1B543** 118  *Female - Swivel Flat Seat*	***Banjo***	**14943** 118  *Metric Banjo*	***Metric 30˚ Flare***	**1MU43** 119  *Female - Swivel*
1XU43 119  *Female - Swivel*	***JIS***	**1FU43** 119  *Female - Swivel*	**1UT43** 120  *Male - Rigid*	**1GU43** 120  *Female - Swivel*	***43 Series Crimp Shell***
10043 120 *43 Series Crimp Shell (for -40 only)*	***Brazable***	**1S943** 121  *Female Slip-Fit Counterbore - Straight*			

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

10143

Male NPTF Pipe - Rigid



view on web page

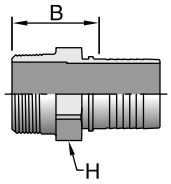
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm	Additional Material Stainless Steel (C)
10143-2-4	1/8x27	1/4	1.80	46	9/16	1.05	27	
10143-4-4	1/4x18	1/4	2.01	51	9/16	1.26	32	•
10143-4-5	1/4x18	5/16	1.94	49	11/16	1.19	30	
10143-4-6	1/4x18	3/8	2.28	58	3/4	1.25	32	
10143-6-4	3/8x18	1/4	1.86	47	11/16	1.11	28	
10143-6-5	3/8x18	5/16	1.94	49	11/16	1.19	30	
10143-6-6	3/8x18	3/8	2.37	60	3/4	1.34	34	•
10143-6-8	3/8x18	1/2	2.59	66	7/8	1.33	34	
10143-6-10	3/8x18	5/8	2.61	66	15/16	1.17	30	
10143-8-4	1/2x14	1/4	2.13	54	7/8	1.38	35	
10143-8-6	1/2x14	3/8	2.39	61	7/8	1.36	35	
10143-8-8	1/2x14	1/2	2.84	72	7/8	1.58	40	•
10143-8-10	1/2x14	5/8	3.04	77	15/16	1.59	40	
10143-8-12	1/2x14	3/4	3.04	77	1-1/16	1.60	41	
10143-12-8	3/4x14	1/2	2.68	68	1-1/16	1.42	36	
10143-12-10	3/4x14	5/8	2.87	73	1-1/16	1.43	36	
10143-12-12	3/4x14	3/4	3.09	78	1-1/16	1.65	42	•
10143-12-16	3/4x14	1	3.40	86	1-3/8	1.78	45	
10143-16-12	1x11-1/2	3/4	3.09	78	1-3/8	1.65	42	
10143-16-16	1x11-1/2	1	3.59	66	1-3/8	1.97	50	•
10143-20-20	1-1/4x11-1/2	1-1/4	4.08	104	1-3/4	2.39	61	•
10143-24-24	1-1/2x11-1/2	1-1/2	3.50	89	2	2.13	54	
10143-32-32	2x11-1/2	2	4.05	103	2-1/2	2.27	58	

Stainless steel fittings must be assembled with Karrykrimp 2, PHastkrimp, Superkrimp or Parkrimp 2.
See CrimpSource for more information.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

0143

Male NPTF Pipe - Rigid



view on web page

# Part Number	Thread inch	Hose I.D. inch	H inch	B inch	B mm
0143-40-40	2-1/2x8	2-1/2	3	3.09	78,4
0143-48-48	3x8	3	3-5/8	3.13	79,6

-40 size sold as a two piece fitting. See page B-64 for -40 shell.
Approved for 187 Hose only.

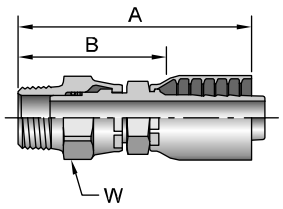
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

11343

Male NPTF Pipe - Swivel

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	W inch	B inch	B mm
11343-2-4	1/8x27	1/4	2.94	75	5/8	2.19	56
11343-4-4	1/4x18	1/4	2.68	68	5/8	1.93	49
11343-4-6	1/4x18	3/8	3.01	76	5/8	1.98	50
11343-6-4	3/8x18	1/4	2.81	71	3/4	2.06	52
11343-6-6	3/8x18	3/8	3.08	78	3/4	2.05	52
11343-6-8	3/8x18	1/2	3.30	84	3/4	2.04	52
11343-8-6	1/2x14	3/8	3.30	84	7/8	2.27	58
11343-8-8	1/2x14	1/2	3.52	89	7/8	2.26	57
11343-12-12	3/4x14	3/4	3.93	100	1-1/4	2.49	63
11343-16-16	1x11-1/2	1	4.52	115	1-1/2	2.90	74



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O-Ring not compatible with Phosphate Ester fluids.

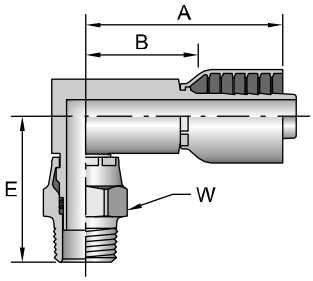
Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on continuous or extensive swiveling.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11L43

Male NPTF Pipe - Swivel - 90° Elbow

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
11L43-4-4	1/4x18	1/4	2.23	57	1.79	45	5/8	1.48	38
11L43-4-6	1/4x18	3/8	2.53	64	1.85	47	5/8	1.50	38
11L43-6-6	3/8x18	3/8	2.53	64	1.94	49	3/4	1.50	38
11L43-8-6	1/2x14	3/8	2.66	68	2.17	55	7/8	1.63	41
11L43-8-8	1/2x14	1/2	2.96	75	2.17	55	7/8	1.70	43
11L43-12-12	3/4x14	3/4	3.32	84	2.46	62	1-1/4	1.88	48



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O-Ring not compatible with Phosphate Ester fluids.

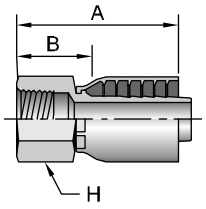
Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on continuous or extensive swiveling.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

10243

Female NPTF Pipe - Rigid



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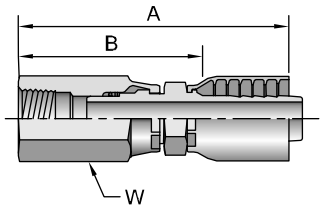
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10243-2-4	1/8x27	1/4	1.68	43	5/8	0.93	24
10243-4-4	1/4x18	1/4	1.78	45	11/16	1.03	26
10243-4-6	1/4x18	3/8	2.05	52	3/4	1.02	26
10243-6-4	3/8x18	1/4	2.05	52	7/8	1.30	33
10243-6-6	3/8x18	3/8	2.32	59	7/8	1.29	33
10243-8-6	1/2x14	3/8	2.40	61	1-1/8	1.37	35
10243-8-8	1/2x14	1/2	2.62	67	1-1/8	1.36	35
10243-12-12	3/4x14	3/4	2.72	69	1-1/4	1.28	33

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1S243

Female NPTF Pipe - Swivel



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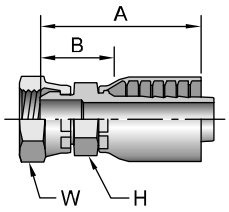
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	W inch	B inch	B mm
1S243-4-4	1/4x18	1/4	3.33	85	3/4	2.58	66

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10743

Female NPSM Pipe - Swivel - (60° Cone)



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
10743-2-4	1/8x27	1/4	1.69	43	9/16	9/16	0.94	24
10743-4-4	1/4x18	1/4	1.74	44	9/16	11/16	0.99	25
10743-6-6	3/8x18	3/8	2.09	53	11/16	7/8	1.06	27
10743-8-8	1/2x14	1/2	2.32	59	15/16	1	1.06	27
10743-12-12	3/4x14	3/4	2.70	69	1-1/16	1-1/4	1.47	37
10743-16-16	1x11-1/2	1	3.09	78	1-3/8	1-1/2	1.47	37
10743-20-20	1-1/4x11-1/2	1-1/4	3.28	83	1-7/8	1-7/8	1.59	40

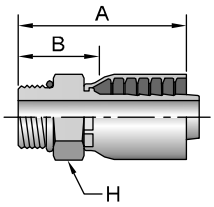
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

10543

Male SAE Straight Thread with O-Ring - Rigid

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10543-4-4	1/4	7/16x20	1/4	1.64	42	9/16	0.89	23
10543-5-4	5/16	1/2x20	1/4	1.80	46	5/8	1.05	27
10543-6-4	3/8	9/16x18	1/4	1.67	42	11/16	0.92	23
10543-6-6	3/8	9/16x18	3/8	2.10	53	11/16	1.07	27
10543-6-8	3/8	9/16x18	1/2	2.32	59	13/16	1.06	27
10543-8-6	1/2	3/4x16	3/8	2.11	54	7/8	1.08	27
10543-8-8	1/2	3/4x16	1/2	2.46	62	7/8	1.20	30
10543-8-10	1/2	3/4x16	5/8	2.63	67	1	1.19	30
10543-10-6	5/8	7/8x14	3/8	2.13	54	1	1.10	28
10543-10-8	5/8	7/8x14	1/2	2.35	60	1	1.09	28
10543-10-10	5/8	7/8x14	5/8	2.77	70	1	1.33	34
10543-12-8	3/4	1-1/16x12	1/2	2.61	66	1-1/4	1.35	34
10543-12-10	3/4	1-1/16x12	5/8	2.80	71	1-1/4	1.36	35
10543-12-12	3/4	1-1/16x12	3/4	2.81	71	1-1/4	1.37	35
10543-16-12	1	1-5/16x12	3/4	2.81	71	1-1/2	1.37	35
10543-16-16	1	1-5/16x12	1	3.37	86	1-1/2	1.75	44
10543-20-20	1-1/4	1-5/8x12	1-1/4	3.69	94	1-7/8	2.00	51



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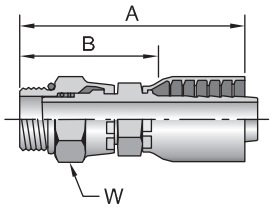
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10G43

Male SAE Straight Thread with O-Ring - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	W inch	B inch	B mm
10G43-5-4	5/16	1/2x20	1/4	2.98	76	3/4	2.23	57
10G43-6-4	3/8	9/16x18	1/4	2.98	76	3/4	2.23	57
10G43-6-6	3/8	9/16x18	3/8	3.25	83	3/4	2.22	56
10G43-8-6	1/2	3/4x16	3/8	3.06	78	7/8	2.06	52
10G43-8-8	1/2	3/4x16	1/2	3.21	82	7/8	1.95	50
10G43-10-6	5/8	7/8x14	3/8	3.01	76	1	2.01	51
10G43-10-8	5/8	7/8x14	1/2	3.27	83	1	2.01	51
10G43-12-12	3/4	1-1/16x12	3/4	3.78	96	1-1/4	2.34	59



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O-Ring not compatible with Phosphate Ester fluids.

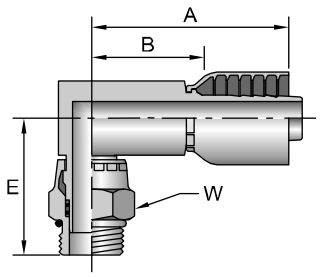
Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on continuous or extensive swiveling.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

10L43

Male SAE Straight Thread with O-Ring - Swivel - 90° Elbow



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
10L43-6-6	3/8	9/16x18	3/8	2.53	64	2.10	53	3/4	1.50	38
10L43-8-6	1/2	3/4x16	3/8	2.66	68	1.86	47	7/8	1.63	41
10L43-8-8	1/2	3/4x16	1/2	2.96	75	1.87	47	7/8	1.70	43
10L43-10-8	5/8	7/8x14	1/2	2.96	75	1.92	49	1	1.70	43
10L43-12-12	3/4	1-1/16x12	3/4	3.22	82	2.30	58	1-1/4	1.88	48

O-Ring not compatible with Phosphate Ester fluids.

See Technical Section for pressure limitations.

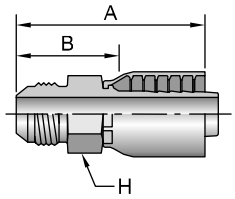
Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on continuous or extensive swiveling.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10343

Male JIC 37° - Rigid

ISO 12151-5



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10343-4-4	1/4	7/16x20	1/4	1.99	51	9/16	1.24	31
10343-5-4	5/16	1/2x20	1/4	1.83	46	9/16	1.08	27
10343-5-6	5/16	1/2x20	3/8	2.26	57	3/4	1.23	31
10343-6-4	3/8	9/16x18	1/4	1.84	47	11/16	1.09	28
10343-6-6	3/8	9/16x18	3/8	2.36	60	3/4	1.33	34
10343-8-6	1/2	3/4x16	3/8	2.30	58	7/8	1.27	32
10343-8-8	1/2	3/4x16	1/2	2.68	68	7/8	1.42	36
10343-8-10	1/2	3/4x16	5/8	2.85	72	7/8	1.41	36
10343-10-6	5/8	7/8x14	3/8	2.40	61	15/16	1.37	35
10343-10-8	5/8	7/8x14	1/2	2.62	67	15/16	1.36	35
10343-10-10	5/8	7/8x14	5/8	3.03	77	15/16	1.59	40
10343-12-8	3/4	1-1/16x12	1/2	2.76	70	1-1/8	1.50	38
10343-12-10	3/4	1-1/16x12	5/8	3.07	78	1-1/8	1.63	41
10343-12-12	3/4	1-1/16x12	3/4	3.19	81	1-1/8	1.75	44
10343-14-12	7/8	1-3/16x12	3/4	3.11	79	1-1/4	1.67	42
10343-16-12	1	1-5/16x12	3/4	3.04	77	1-3/8	1.60	41
10343-16-16	1	1-5/16x12	1	3.63	92	1-3/8	2.01	51
10343-20-20	1-1/4	1-5/8x12	1-1/4	3.96	101	1-7/8	2.27	58
10343-24-20	1-1/2	1-7/8x12	1-1/4	3.71	94	2	2.02	51

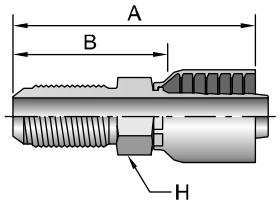
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1LB43

Male JIC 37° - Bulkhead without Locknut

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
1LB43-4-4	1/4	7/16x20	1/4	2.64	67	9/16	1.89	48
1LB43-6-6	3/8	9/16x18	3/8	3.08	78	3/4	2.05	52
1LB43-8-8	1/2	3/4x16	1/2	3.46	88	7/8	2.20	56



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Fittings are stocked less locknut (part no. WLN). Locknuts are manufactured by the Parker Tube Fittings Division and must be ordered separately.

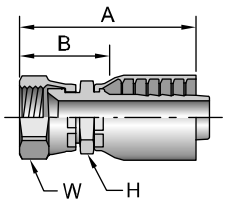
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10643

Female JIC 37° - Swivel

ISO 12151-5

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm	Additional Material Stainless Steel (C)
10643-4-4	1/4	7/16x20	1/4	1.94	49,0	9/16	9/16	1.19	30,0	•
10643-4-6	1/4	7/16x20	3/8	2.20	56,0	11/16	9/16	1.17	30,0	
10643-5-4	5/16	1/2x20	1/4	2.03	52,0	9/16	5/8	1.28	33,0	
10643-5-5	5/16	1/2x20	5/16	2.08	53,0	11/16	5/8	1.33	34,0	
10643-5-6	5/16	1/2x20	3/8	2.26	57,0	11/16	5/8	1.23	31,0	
10643-6-4	3/8	9/16x18	1/4	2.05	52,0	9/16	11/16	1.30	33,0	
10643-6-5	3/8	9/16x18	5/16	2.10	53,0	11/16	11/16	1.35	34,0	
10643-6-6	3/8	9/16x18	3/8	2.44	62,0	11/16	11/16	1.41	36,0	•
10643-6-8	3/8	9/16x18	1/2	2.51	64,0	13/16	11/16	1.25	32,0	
10643-8-6	1/2	3/4x16	3/8	2.49	63,0	11/16	7/8	1.46	37,0	•
10643-8-8	1/2	3/4x16	1/2	2.77	67,0	13/16	7/8	1.51	35,0	•
10643-8-10	1/2	3/4x16	5/8	2.82	72,0	15/16	7/8	1.38	35,0	
10643-8-12	1/2	3/4x16	3/4	2.83	72,0	1-1/16	7/8	1.39	35,0	
10643-10-6	5/8	7/8x14	3/8	2.51	64,0	7/8	1	1.48	38,0	
10643-10-8	5/8	7/8x14	1/2	2.85	72,0	7/8	1	1.59	40,0	
10643-10-10	5/8	7/8x14	5/8	3.21	81,5	15/16	1	1.76	45,0	•
10643-10-12	5/8	7/8x14	3/4	2.93	74,0	1-1/16	1	1.49	38,0	
10643-12-8	3/4	1-1/16x12	1/2	2.78	71,0	1-1/16	1-1/4	1.52	39,0	
10643-12-10	3/4	1-1/16x12	5/8	3.10	79,0	1-1/16	1-1/4	1.66	42,0	
10643-12-12	3/4	1-1/16x12	3/4	3.43	87,0	1-1/16	1-1/4	2.00	51,0	•
10643-12-16	3/4	1-1/16x12	1	3.29	84,0	1-3/8	1-1/4	1.67	42,0	
10643-14-12	7/8	1-3/16x12	3/4	3.18	81,0	1-1/4	1-3/8	1.74	44,0	
10643-16-12	1	1-5/16x12	3/4	3.31	84,0	1-1/4	1-1/2	1.87	47,0	
10643-16-16	1	1-5/16x12	1	3.88	98,6	1-3/8	1-1/2	2.26	57,5	•
10643-20-16	1-1/4	1-5/8x12	1	3.81	97,0	1-5/8	2	2.19	56,0	
10643-20-20	1-1/4	1-5/8x12	1-1/4	3.94	100,0	1-7/8	2	2.25	57,0	•
10643-24-24	1-1/2	1-7/8x12	1-1/2	3.84	98,0	2-1/8	2-1/4	2.47	63,0	
10643-32-32	2	2-1/2x12	2	4.73	120,0	2-1/2	2-7/8	2.95	75,0	



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Stainless steel fittings must be assembled with Karrykrimp 2, PHastkrimp, Superkrimp or Parkrimp 2.
See CrimpSource for more information.

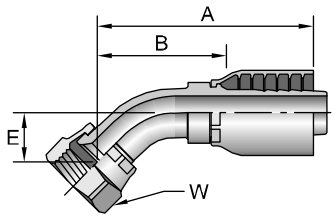
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

13743

Female JIC 37° - Swivel - 45° Elbow - Short Drop

ISO 12151-5



view on web page

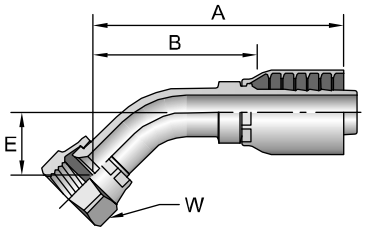
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
13743-4-4	1/4	7/16x20	1/4	1.96	50.0	0.39	10	9/16	1.21	31.0
13743-5-4	5/16	1/2x20	1/4	2.19	56.0	0.39	10	5/8	1.26	37.0
13743-6-4	3/8	9/16x18	1/4	2.23	57.0	0.39	10	11/16	1.48	38.0
13743-6-6	3/8	9/16x18	3/8	2.76	70.0	0.43	11	11/16	1.73	43.9
13743-8-6	1/2	3/4x16	3/8	2.74	70.0	0.55	14	7/8	1.74	44.0
13743-8-8	1/2	3/4x16	1/2	3.20	81.2	0.59	15	7/8	1.94	49.3
13743-10-8	5/8	7/8x14	1/2	3.75	95.0	0.63	16	1	2.50	63.5
13743-10-10	5/8	7/8x14	5/8	3.73	94.7	0.63	16	1	2.29	58.17
13743-12-10	3/4	1-1/16x12	5/8	3.62	92.0	0.83	21	1-1/4	2.08	53.0
13743-12-12	3/4	1-1/16x12	3/4	4.55	115.57	0.83	21	1-1/4	3.11	79.0
13743-16-16	1	1-5/16x12	1	4.38	111.0	0.95	24	1-1/2	2.76	70.0
13743-20-20	1-1/4	1-5/8x12	1-1/4	4.59	117.0	1.19	30	2	2.82	72.0
13743-24-24	1-1/2	1-7/8x12	1-1/2	5.50	140.0	1.47	37	2-1/4	4.18	106.0

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1L743

Female JIC 37° - Swivel - 45° Elbow - Medium Drop

ISO 12151-5



view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1L743-6-6	3/8	9/16x18	3/8	2.66	62	0.59	15	11/16	1.63	41
1L743-8-8	1/2	3/4x16	1/2	3.17	80	0.72	18	7/8	1.91	49
1L743-12-12	3/4	1-1/16x12	3/4	4.23	107	1.06	27	1-1/4	2.79	71
1L743-16-16	1	1-5/16x12	1	5.42	138	1.07	27	1-1/2	3.80	96

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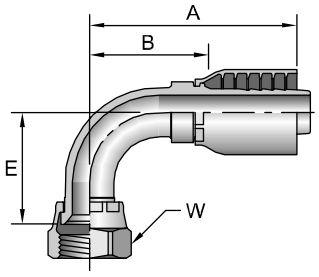
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

13943

Female JIC 37° - Swivel - 90° Elbow - Short Drop

ISO 12151-5

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
13943-4-4	1/4	7/16x20	1/4	1.78	45	0.83	21	9/16	1.03	26
13943-4-6	1/4	7/16x20	3/8	2.05	52	0.83	21	9/16	1.02	26
13943-5-4	5/16	1/2x20	1/4	1.88	48	0.83	21	5/8	1.13	29
13943-5-5	5/16	1/2x20	5/16	2.26	60	0.77	20	5/8	1.51	38
13943-6-4	3/8	9/16x18	1/4	2.03	52	0.91	23	11/16	1.28	33
13943-6-6	3/8	9/16x18	3/8	2.25	57	0.91	23	11/16	1.22	31
13943-6-8	3/8	9/16x18	1/2	2.50	64	0.91	23	11/16	1.25	32
13943-8-6	1/2	3/4x16	3/8	2.28	58	1.14	29	7/8	1.25	32
13943-8-8	1/2	3/4x16	1/2	2.48	63	1.14	29	7/8	1.24	32
13943-10-8	5/8	7/8x14	1/2	2.96	75	1.26	32	1	1.26	32
13943-10-10	5/8	7/8x14	5/8	3.00	76	1.26	32	1	1.56	40
13943-12-8	3/4	1-1/16x12	1/2	3.25	83	1.89	48	1-1/4	1.99	51
13943-12-10	3/4	1-1/16x12	5/8	3.38	86	1.89	48	1-1/4	1.93	49
13943-12-12	3/4	1-1/16x12	3/4	3.49	89	1.89	48	1-1/4	2.05	52
13943-16-12	1	1-5/16x12	3/4	3.74	95	2.20	56	1-1/2	2.30	58
13943-16-16	1	1-5/16x12	1	4.31	109	2.20	56	1-1/2	2.69	68
13943-20-20	1-1/4	1-5/8x12	1-1/4	5.06	129	2.58	66	2	3.37	86
13943-24-24	1-1/2	1-7/8x12	1-1/2	5.84	148	3.38	86	2-1/4	4.47	114
13943-32-32	2	2-1/2x12	2	6.75	171,4	4.62	117	2-7/8	4.97	126,2



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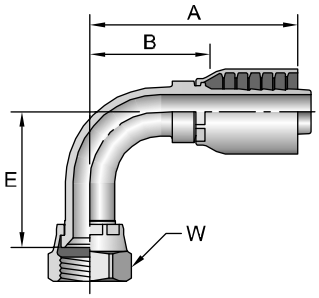
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1L943

Female JIC 37° - Swivel - 90° Elbow - Medium Drop

ISO 12151-5

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1L943-4-4	1/4	7/16x20	1/4	2.00	51	1.26	32	9/16	1.25	32
1L943-6-4	3/8	9/16x18	1/4	2.12	54	1.50	38	11/16	1.37	35
1L943-6-6	3/8	9/16x18	3/8	2.30	57	1.50	38	11/16	1.27	31
1L943-8-6	1/2	3/4x16	3/8	2.67	68	1.61	41	7/8	1.64	42
1L943-8-8	1/2	3/4x16	1/2	2.64	67	1.61	41	7/8	1.38	35
1L943-10-8	5/8	7/8x14	1/2	3.23	82	1.85	47	1	1.97	50
1L943-10-10	5/8	7/8X14	5/8	3.43	87	1.76	45	1	1.99	50.5
1L943-12-12	3/4	1-1/16x12	3/4	3.49	89	2.28	58	1-1/4	2.05	52
1L943-16-16	1	1-5/16x12	1	4.31	109	2.80	71	1-1/2	2.69	68



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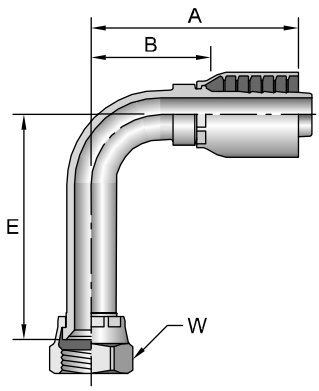
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

14143

Female JIC 37° - Swivel - 90° Elbow - Long Drop

ISO 12151-5



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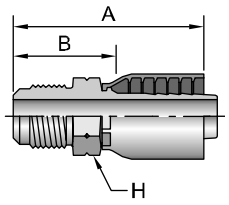
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
14143-4-4	1/4	7/16x20	1/4	1.96	50	1.81	46	9/16	1.21	31
14143-5-4	5/16	1/2x20	1/4	1.93	49	1.80	46	5/8	1.18	30
14143-6-6	3/8	9/16x18	3/8	2.39	61	2.13	54	11/16	1.37	35
14143-8-6	1/2	3/4x16	3/8	2.56	65	2.43	62	7/8	1.56	40
14143-8-8	1/2	3/4x16	1/2	2.55	65	2.76	64	7/8	1.29	33
14143-10-8	5/8	7/8x14	1/2	2.96	75	2.76	70	1	1.71	43
14143-10-10	5/8	7/8x14	5/8	3.10	79	3.78	70	1	1.66	42
14143-12-12	3/4	1-1/16x12	3/4	3.49	89	3.74	96	1-1/4	2.05	52
14143-14-12	7/8	1-3/16x12	3/4	3.38	86	3.93	100	1-3/8	1.95	50
14143-16-16	1	1-5/16x12	1	4.31	109	4.49	114	1-1/2	2.69	68
14143-20-20	1-1/4	1-5/8x12	1-1/4	4.39	112	5.28	134	2	2.73	69

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10443

Male SAE 45° - Rigid



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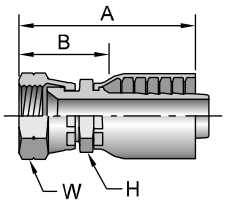
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10443-6-6	3/8	5/8x18	3/8	2.21	56	3/4	1.21	31
10443-12-12	3/4	1-1/16x14	3/4	3.20	81	1-1/8	1.77	45

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10843

Female SAE 45° - Swivel



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
10843-6-4	3/8	5/8x18	1/4	2.11	54	3/4	3/4	1.36	35
10843-6-6	3/8	5/8x18	3/8	2.38	60	3/4	3/4	1.35	34
10843-12-12	3/4	1-1/16x14	3/4	3.17	81	1-1/16	1-1/4	1.73	44

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

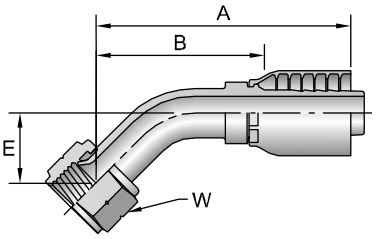
Notch on nut signifies SAE 45° flare.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

17743

Female SAE 45° - Swivel - 45° Elbow

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
17743-4-6	1/4	7/16x20	3/8	2.28	58	0.33	8	9/16	1.25	32



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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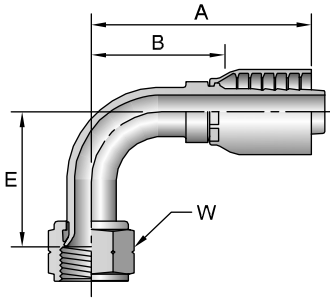
17943

Female SAE 45° - Swivel - 90° Elbow

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
17943-6-6	3/8	5/8x18	3/8	2.13	54	0.85	22	3/4	1.13	29



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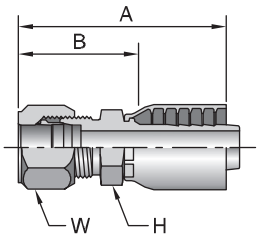
11143

Male Ferulok Flareless - Rigid

(24° Cone with Nut and Ferrule)

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
11143-4-4	1/4	7/16x20	1/4	2.13	54	9/16	9/16	1.40	36
11143-4-6	1/4	7/16x20	3/8	2.44	62	3/4	9/16	1.44	37
11143-5-4	5/16	1/2x20	1/4	2.13	54	9/16	5/8	1.40	36
11143-5-6	5/16	1/2x20	3/8	2.44	62	3/4	5/8	1.44	37
11143-6-6	3/8	9/16x18	3/8	2.50	64	3/4	11/16	1.50	38
11143-8-8	1/2	3/4x16	1/2	2.93	74	7/8	7/8	1.68	43
11143-10-8	5/8	7/8x14	1/2	3.07	78	15/16	1	1.82	46
11143-12-12	3/4	1-1/16x12	3/4	3.39	86	1-1/8	1-1/4	1.96	50
11143-16-16	1	1-5/16x12	1	3.80	97	1-3/8	1-1/2	2.18	55



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The Parker Ferrul-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy on-the-job repairs. For additional information see Ferrule-Fix installation instructions in the Technical Section.

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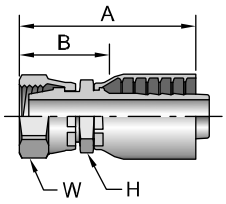
Notch on nut signifies SAE 45° flare.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

11243

Female Ferulok Flareless - Swivel - (24° Cone)



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
11243-6-6	3/8	9/16x18	3/8	2.51	64	11/16	11/16	1.48	38
11243-8-6	1/2	3/4x16	3/8	2.67	68	7/8	7/8	1.64	42
11243-8-8	1/2	3/4x16	1/2	2.89	73	7/8	7/8	1.63	41

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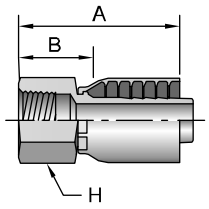
1GJ43

Female Grease Connection - SPL - PTF Taper Thread Rigid - 1/2 x 27



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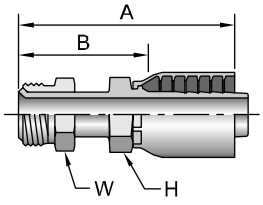
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
1GJ43-4-4	1/2x27	1/4	1.79	45	3/4	1.04	26

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

12843

Male Inverted SAE 45° - Swivel



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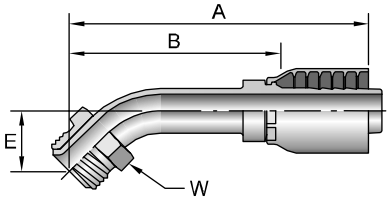
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
12843-4-4	1/4	7/16x24	1/4	2.32	59	9/16	7/16	1.57	40
12843-4-6	1/4	7/16x24	3/8	2.65	67	11/16	7/16	1.62	41
12843-5-4	5/16	1/2x20	1/4	2.60	66	9/16	1/2	1.85	47
12843-5-6	5/16	1/2x20	3/8	2.74	70	11/16	1/2	1.71	43
12843-6-6	3/8	5/8x18	3/8	2.86	73	11/16	5/8	1.83	46
12843-8-8	1/2	3/4x18	1/2	3.11	79	13/16	3/4	1.85	47
12843-10-10	5/8	7/8x18	5/8	3.55	90	3/4	7/8	2.11	54

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

16743

Male Inverted SAE 45° - Swivel - 45° Elbow



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
16743-4-4	1/4	7/16x24	1/4	2.09	53	0.63	16	7/16	1.34	34
16743-5-4	5/16	1/2x20	1/4	2.34	59	0.70	18	1/2	1.59	40
16743-5-6	5/16	1/2x20	3/8	2.48	63	0.70	18	1/2	1.45	37
16743-6-6	3/8	5/8x18	3/8	2.93	74	0.94	24	5/8	1.90	48
16743-8-8	1/2	3/4x18	1/2	3.23	82	1.09	28	3/4	1.97	50

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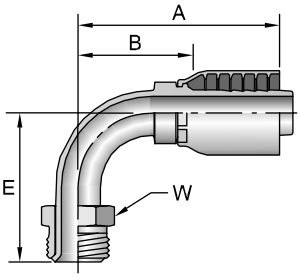
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

16943

Male Inverted SAE 45° - Swivel - 90° Elbow

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
16943-4-4	1/4	7/16x24	1/4	2.16	55	1.56	40	7/16	1.41	36
16943-4-6	1/4	7/16x24	3/8	2.49	63	1.56	40	7/16	1.46	37
16943-5-4	5/16	1/2x20	1/4	2.41	61	1.65	42	1/2	1.66	42
16943-5-6	5/16	1/2x20	3/8	2.59	66	1.65	42	1/2	1.56	40
16943-6-6	3/8	5/8x18	3/8	2.61	66	1.69	43	5/8	1.58	40
16943-8-8	1/2	3/4x18	1/2	2.81	71	1.88	48	3/4	1.55	39



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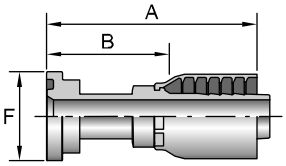
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11543

SAE Code 61 Flange Head

ISO 12151-3 - S - L

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm
11543-8-8	1/2	1/2	3.48	88	1-3/16	2.22	56
11543-10-10	5/8	5/8	3.78	96,0	1-11/32	2.34	59,4
11543-12-8	3/4	1/2	2.46	62,5	1-1/2	1.20	30,5
11543-12-12	3/4	3/4	3.54	90	1-1/2	2.42	61,5
11543-16-12	1	3/4	2.74	70	1-3/4	1.30	33
11543-16-16	1	1	4.25	108	1-3/4	2.63	67
11543-20-16	1-1/4	1	3.19	81	2	1.57	40
11543-20-20	1-1/4	1-1/4	4.70	119	2	3.01	76
11543-24-20	1-1/2	1-1/4	3.22	82	2-3/8	1.53	39
11543-24-24	1-1/2	1-1/2	4.59	117	2-3/8	3.22	82
11543-24-32	1-1/2	2	5.65	144	2-7/8	3.87	98
11543-32-20	2	1-1/4	4.29	109	2-13/16	2.60	66
11543-32-24	2	1-1/2	3.14	80	2-7/8	1.77	45
11543-32-32	2	2	4.99	127	2-13/16	3.21	82



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

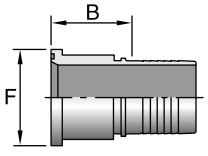
1543

SAE Code 61 Flange Head

ISO 12151-3 - S - L

# Part Number	Flange inch	Hose I.D. inch	F inch	B inch	B mm
1543-40-40	2-1/2x8	2-1/2	3-15/16	2.73	69,2
1543-48-48	3	3	4	3.54	90,0

-40 size sold as a two piece fitting. See page B-66 for -40 shell. Approved for 187 Hose only.



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

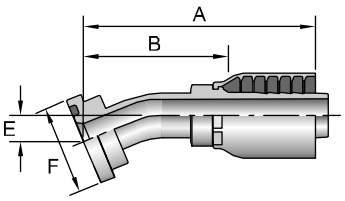
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

11643

SAE Code 61 Flange Head - 22-1/2° Elbow

ISO 12151-3 - E22M - L



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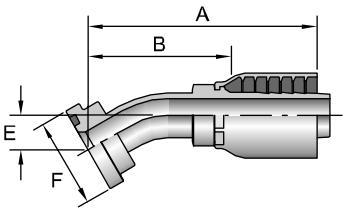
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11643-12-12	3/4	3/4	3.90	99	0.44	11	1-1/2	2.47	63
11643-16-12	1	3/4	3.89	99	0.44	11	1-3/4	2.46	62
11643-16-16	1	1	4.25	108	0.44	11	1-3/4	2.66	68
11643-20-16	1-1/4	1	4.25	108	0.44	11	2	2.66	68
11643-20-20	1-1/4	1-1/4	4.65	118	0.50	13	2	3.00	76
11643-24-20	1-1/2	1-1/4	4.66	118	0.51	13	2-3/8	3.01	76

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

12643

SAE Code 61 Flange Head - 30° Elbow

ISO 12151-3 - E30S - L (1 Piece: ISO 12151-3 - E30M - L)



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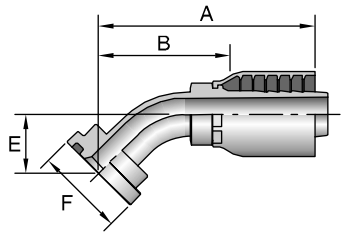
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
12643-12-12	3/4	3/4	3.90	99	0.59	15	1-1/2	2.46	62
12643-16-16	1	1	4.38	111	0.62	16	1-3/4	2.76	70
12643-20-16	1-1/4	1	4.38	111	0.62	16	2	2.76	70
12643-20-20	1-1/4	1-1/4	4.39	112	0.72	18	2	2.70	69

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11743

SAE Code 61 Flange Head - 45° Elbow

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11743-8-8	1/2	1/2	2.99	76	0.75	19	1-3/16	1.73	44
11743-10-10	5/8	5/8	4.63	118	0.94	24	1-11/32	3.19	81
11743-12-8	3/4	1/2	3.30	84	0.87	22	1-1/2	2.04	52
11743-12-12	3/4	3/4	3.85	98	1.02	26	1-1/2	2.41	61
11743-16-12	1	3/4	3.85	98	1.02	26	1-3/4	2.41	61
11743-16-16	1	1	4.76	121	1.26	32	1-3/4	3.14	80
11743-20-16	1-1/4	1	4.76	121	1.26	32	2	3.14	80
11743-20-20	1-1/4	1-1/4	5.61	142	1.50	38	2	3.92	100
11743-20-24	1-1/4	1-1/2	5.45	138	1.38	35	2	4.08	104
11743-24-20	1-1/2	1-1/4	5.55	141	1.50	38	2-3/8	3.86	98
11743-24-24	1-1/2	1-1/2	5.50	140	1.42	36	2-3/8	4.13	105
11743-32-24	2	1-1/2	5.49	139	1.42	36	2-13/16	4.12	105
11743-32-32	2	2	7.67	195	2.21	56	2-13/16	5.89	150

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See Accessories Section for O-Rings and Flange Kits.

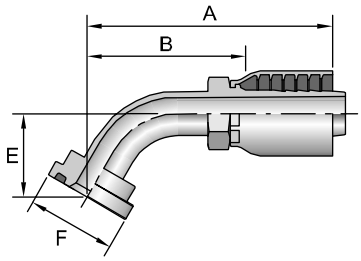
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

12743

SAE Code 61 Flange Head - 60° Elbow

ISO 12151-3 - E60S - L (1 Piece: ISO 12151-3 - E60M - L)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
12743-12-12	3/4	3/4	4.16	105	1.43	36	1-1/2	2.72	69
12743-16-12	1	3/4	4.15	105	1.39	35	1-3/4	2.71	69
12743-16-16	1	1	4.45	113	1.50	38	1-3/4	2.83	72
12743-20-20	1-1/4	1-1/4	5.09	129	1.69	43	2	3.40	86



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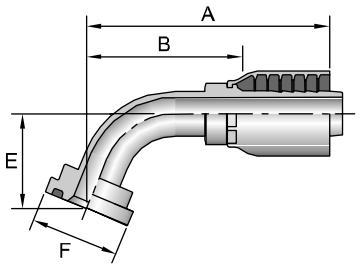
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11843

SAE Code 61 Flange Head - 67-1/2° Elbow

ISO 12151-3 - E67S - L (1 Piece: ISO 12151-3 - E67M - L)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11843-12-12	3/4	3/4	4.09	104	1.60	41	1-1/2	2.66	68
11843-16-16	1	1	4.66	118	1.75	44	1-3/4	3.07	78
11843-20-20	1-1/4	1-1/4	5.04	128	1.94	49	2	3.37	86



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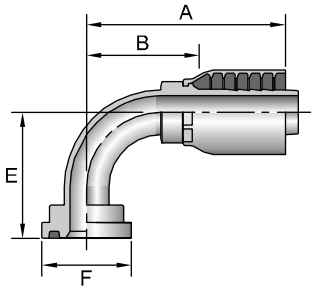
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11943

SAE Code 61 Flange Head - 90° Elbow

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11943-8-8	1/2	1/2	2.93	74	1.60	41	1-3/16	1.67	42
11943-10-10	5/8	5/8	3.71	94	2.10	53	1-11/32	2.27	58
11943-12-8	3/4	1/2	2.93	74	1.66	42	1-1/2	1.67	42
11943-12-10	3/4	5/8	3.71	94	2.10	53	1-1/2	2.27	58
11943-12-12	3/4	3/4	3.51	89	2.28	58	1-1/2	2.07	53
11943-16-12	1	3/4	3.59	91	2.24	57	1-3/4	2.15	55
11943-16-16	1	1	4.28	109	2.78	71	1-3/4	2.66	68
11943-20-16	1-1/4	1	4.25	108	2.76	70	2	2.63	67
11943-20-20	1-1/4	1-1/4	5.12	130	3.54	90	2	3.43	87
11943-20-24	1-1/4	1-1/2	4.19	106	2.49	63	2	2.82	72
11943-24-20	1-1/2	1-1/4	5.09	129	3.54	90	2-3/8	3.40	86
11943-24-24	1-1/2	1-1/2	5.50	140	4.09	79	2-3/8	4.13	105
11943-32-24	2	1-1/2	5.48	139	3.10	79	2-13/16	4.11	104
11943-32-32	2	2	6.75	171	5.43	114	2-13/16	4.97	126



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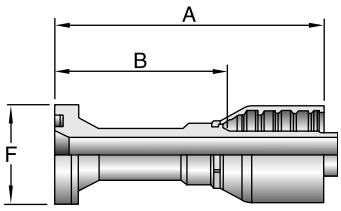
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

16A43

SAE Code 62 Flange Head

ISO 12151-3 - S - S



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	B inch	B mm	F inch
16A43-12-12	3/4	3/4	4.12	104,6	2.68	68,0	1-5/8
16A43-16-12	1	3/4	3.10	78,7	1.66	42,2	1-7/8
16A43-16-16	1	1	4.81	122,2	3.19	81,0	1-7/8
16A43-20-16	1-1/4	1	3.61	91,7	1.99	50,5	2-1/8
16A43-20-20	1-1/4	1-1/4	5.01	127,3	3.32	84,3	2-1/8

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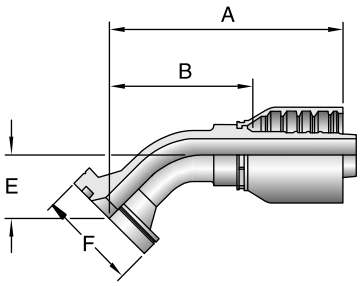
16F43

SAE Code 62 Flange Head - 45˚ Elbow

ISO 12151-3 - E45S - S (1 Piece 12151-3-E45M-S)



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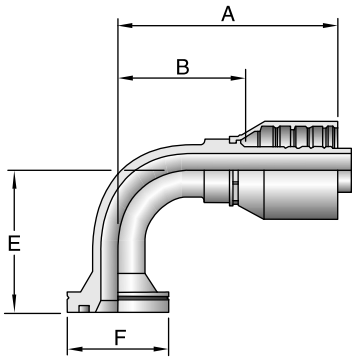
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	B inch	B mm	F inch	E inch	E mm
16F43-12-12	3/4	3/4	3.82	97,0	2.38	60,5	1-5/8	1.02	25,9
16F43-16-16	1	1	4.66	118,4	3.04	77,2	1-7/8	1.26	32,0
16F43-20-16	1-1/4	1	4.57	116,1	2.95	74,9	2-1/8	1.06	26,9

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

16N43

SAE Code 62 Flange Head - 90˚ Elbow

ISO 12151-3 - E90S - S (1 Piece 12151-3-E90M-S)



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	B inch	B mm	F inch	E inch	E mm
16N43-12-12	3/4	3/4	3.51	89,2	2.07	52,6	1-5/8	2.28	57,9
16N43-16-12	1	3/4	3.49	88,6	2.05	52,1	1-7/8	2.28	57,9
16N43-16-16	1	1	4.28	108,7	2.66	67,6	1-7/8	2.76	70,1
16N43-20-16	1-1/4	1	4.28	108,7	2.66	67,6	2-1/8	2.76	70,1
16N43-20-20	1-1/4	1-1/4	5.09	129,3	3.40	86,4	2-1/8	3.54	90,0

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

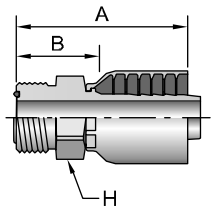
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1J043

Male Seal-Lok® - Rigid - (with O-Ring)

SAE J516 (Apr 2016)

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
1J043-4-4	1/4	9/16x18	1/4	1.73	44	5/8	0.98	25
1J043-6-6	3/8	11/16x16	3/8	2.08	53	3/4	1.05	27
1J043-8-6	1/2	13/16x16	3/8	2.20	56	7/8	1.17	30
1J043-8-8	1/2	13/16x16	1/2	2.42	61	7/8	1.17	30
1J043-10-8	5/8	1x14	1/2	2.61	66	1-1/16	1.35	34
1J043-10-10	5/8	1x14	5/8	2.73	69	1-1/16	1.34	34
1J043-12-10	3/4	1-3/16x12	5/8	2.89	73	1-1/4	1.45	37
1J043-12-12	3/4	1-3/16x12	3/4	2.90	74	1-1/4	1.46	37
1J043-16-12	1	1-7/16x12	3/4	2.93	74	1-1/2	1.49	38
1J043-16-16	1	1-7/16x12	1	3.29	84	1-1/2	1.67	42
1J043-20-20	1-1/4	1-11/16x12	1-1/4	3.32	84	1-3/4	1.63	41



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Supplied with Parker's exclusive Trap-Seal™, which leads to improved retention within Seal-Lok's™ ORFS groove and virtually eliminates costly leakage and/or time consuming pre-assembly handling.

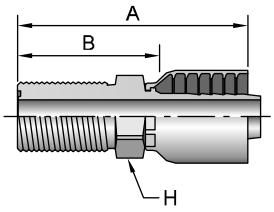
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1JB43

Male Seal-Lok® - Bulkhead without Locknut - (with O-Ring)

End Connection per SAE J516 (Apr2016)

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1JB43-4-4	1/4	9/16x18	1/4	2.67	68	22	1.92	49
1JB43-6-6	3/8	11/16x16	3/8	3.08	78	27	2.05	52
1JB43-8-8	1/2	13/16x16	1/2	3.44	87	30	2.18	55
1JB43-10-8	5/8	1x14	1/2	3.69	94	36	2.43	62
1JB43-10-10	5/8	1x14	5/8	3.88	99	36	2.44	62
1JB43-12-12	3/4	1-3/16x12	3/4	3.95	100	41	2.51	64



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Fittings are stocked less locknut (part no. WLNL). Locknuts are manufactured by the Parker Tube Fittings Division and must be ordered separately.

Supplied with Parker's exclusive Trap-Seal™, which leads to improved retention within Seal-Lok's™ ORFS groove and virtually eliminates costly leakage and/or time consuming pre-assembly handling.

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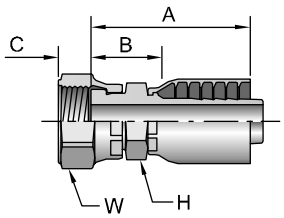
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1JC43

Female Seal-Lok® - Swivel - Short

ISO 12151-1 - SWSA



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	C inch	C mm	H inch	W inch	B inch	B mm	Additional Material Stainless Steel (C)
1JC43-4-4	1/4	9/16x18	1/4	1.63	41	0.32	8	9/16	11/16	0.88	22	•
1JC43-4-4-SM	1/4	9/16x18	1/4	1.63	41	0.32	8	17 mm	17 mm	0.88	22	
1JC43-4-6	1/4	9/16x18	3/8	1.90	48	0.32	8	11/16	11/16	0.87	22	
1JC43-6-4	3/8	11/16x16	1/4	1.67	42	0.32	8	11/16	13/16	0.92	23	
1JC43-6-4-SM	3/8	11/16x16	1/4	1.67	42	0.32	8	17 mm	22 mm	0.92	23	
1JC43-6-5	3/8	11/16x16	5/16	1.65	42	0.32	8	11/16	13/16	0.90	23	
1JC43-6-6	3/8	11/16x16	3/8	1.94	49	0.32	8	11/16	13/16	0.91	23	•
1JC43-6-6-SM	3/8	11/16x16	3/8	1.94	49	0.32	8	19 mm	22 mm	0.91	23	
1JC43-8-6	1/2	13/16x16	3/8	2.00	51	0.43	11	13/16	15/16	0.97	25	
1JC43-8-6-SM	1/2	13/16x16	3/8	2.00	51	0.43	11	19 mm	24 mm	0.97	25	
1JC43-8-8	1/2	13/16x16	1/2	2.22	56	0.43	11	13/16	15/16	0.96	24	•
1JC43-8-8-SM	1/2	13/16x16	1/2	2.22	56	0.43	11	22 mm	24 mm	0.96	24	
1JC43-10-8	5/8	1x14	1/2	2.30	58	0.53	13	15/16	1-1/8	1.04	26	
1JC43-10-10	5/8	1x14	5/8	2.49	63	0.53	13	15/16	1-1/8	1.05	27	•
1JC43-10-10-SM	5/8	1x14	5/8	2.49	63	0.53	13	24 mm	30 mm	1.05	27	
1JC43-12-8	3/4	1-3/16x12	1/2	2.48	63	0.57	14	1-1/8	1-3/8	1.22	31	
1JC43-12-10	3/4	1-3/16x12	5/8	2.67	68	0.57	14	1-1/8	1-3/8	1.23	31	
1JC43-12-12	3/4	1-3/16x12	3/4	2.68	68	0.57	14	1-1/8	1-3/8	1.24	31	•
1JC43-12-12-SM	3/4	1-3/16x12	3/4	2.68	68	0.57	14	32 mm	36 mm	1.24	31	
1JC43-12-16	3/4	1-3/16x12	1	2.99	76	0.57	14	1-5/16	1-3/8	1.37	35	
1JC43-16-12	1	1-7/16x12	3/4	2.83	72	0.58	15	1-3/8	1-5/8	1.39	35	
1JC43-16-16	1	1-7/16x12	1	3.14	80	0.58	15	1-3/8	1-5/8	1.52	39	•
1JC43-20-20	1-1/4	1-11/16x12	1-1/4	3.27	83	0.59	15	1-7/8	1-7/8	1.58	40	•

When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.
Stainless steel fittings must be assembled with Karrykrimp 2, PHastkrimp, Superkrimp or Parkrimp 2.
See CrimpSource for more information.

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See Accessories Section for O-Rings.

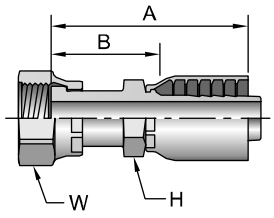
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1JS43

Female Seal-Lok® - Swivel - Long

ISO 12151-1 SWSB

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
1JS43-4-4	1/4	9/16x18	1/4	2.07	53	9/16	11/16	1.32	34
1JS43-4-6	1/4	9/16x18	3/8	2.21	56	11/16	11/16	1.18	30
1JS43-6-4	3/8	11/16x16	1/4	2.14	54	9/16	13/16	1.39	35
1JS43-6-6	3/8	11/16x16	3/8	2.28	58	11/16	13/16	1.25	32
1JS43-6-8	3/8	11/16x16	1/2	2.50	64	13/16	13/16	1.24	31
1JS43-8-4	1/2	13/16x16	1/4	2.26	57	11/16	15/16	1.51	38
1JS43-8-6	1/2	13/16x16	3/8	2.53	64	11/16	15/16	1.50	38
1JS43-8-8	1/2	13/16x16	1/2	2.65	67	13/16	15/16	1.39	35
1JS43-8-10	1/2	13/16x16	5/8	2.82	72	15/16	15/16	1.38	35
1JS43-10-6	5/8	1x14	3/8	2.63	67	11/16	1-1/8	1.62	41
1JS43-10-8	5/8	1x14	1/2	2.89	73	13/16	1-1/8	1.63	41
1JS43-10-10	5/8	1x14	5/8	3.09	78	15/16	1-1/8	1.65	42
1JS43-10-12	5/8	1x14	3/4	3.08	78	1-1/16	1-1/8	1.64	42
1JS43-12-8	3/4	1-3/16x12	1/2	2.90	74	15/16	1-3/8	1.64	42
1JS43-12-10	3/4	1-3/16x12	5/8	3.19	81	1-1/8	1-3/8	1.75	44
1JS43-12-12	3/4	1-3/16x12	3/4	3.31	84	1-1/16	1-3/8	1.87	47
1JS43-12-16	3/4	1-3/16x12	1	3.53	90	1-5/16	1-3/8	1.91	49
1JS43-16-12	1	1-7/16x12	3/4	3.37	86	1-3/8	1-5/8	1.93	49
1JS43-16-16	1	1-7/16x12	1	3.62	92	1-3/8	1-5/8	2.00	51
1JS43-16-20	1	1-7/16x12	1-1/4	3.77	96	1-3/4	1-5/8	2.08	53
1JS43-20-16	1-1/4	1-11/16x12	1	3.64	92	1-3/8	1-7/8	2.02	51
1JS43-20-20	1-1/4	1-11/16x12	1-1/4	3.77	96	1-3/4	1-7/8	2.15	53
1JS43-24-20	1-1/2	2x12	1-1/4	3.88	99	1-3/4	2-1/4	2.23	57
1JS43-24-24	1-1/2	2x12	1-1/2	3.91	99	1-7/8	2-1/4	2.26	65



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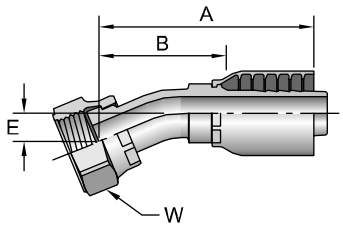
1J643

Female Seal-Lok® - Swivel - 22-1/2° Elbow

End Connection per ISO 8434-3-SWE

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J643-6-6	3/8	11/16x16	3/8	2.55	65	0.30	7.6	13/16	1.52	39
1J643-8-8	1/2	13/16x16	1/2	2.88	73	0.39	10	15/16	1.63	42



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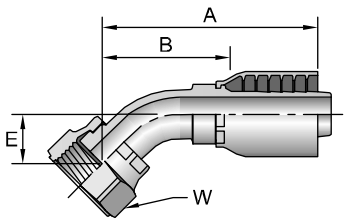
See Accessories Section for O-Rings.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1J743

Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J743-4-4	1/4	9/16x18	1/4	1.97	50.0	0.39	10	11/16	1.22	31.0
1J743-4-4-SM	1/4	9/16x18	1/4	1.97	50.0	0.39	10	17 mm	1.22	31.0
1J743-4-6	1/4	9/16x18	3/8	2.23	57.0	0.39	10	11/16	1.20	30.0
1J743-6-4	3/8	11/16x16	1/4	2.08	53.0	0.43	11	13/16	1.33	34.0
1J743-6-4-SM	3/8	11/16x16	1/4	2.08	53.0	0.43	11	22 mm	1.33	34.0
1J743-6-5	3/8	11/16x16	5/16	2.37	60.0	0.43	11	13/16	1.62	41.0
1J743-6-6	3/8	11/16x16	3/8	2.76	70.0	0.43	11	13/16	1.73	44.0
1J743-6-8	3/8	11/16x16	1/2	2.66	68.0	0.43	11	13/16	1.41	36.0
1J743-8-4	1/2	13/16x16	1/4	2.56	65.0	0.59	15	15/16	1.81	46.0
1J743-8-6	1/2	13/16x16	3/8	2.53	64.0	0.59	15	15/16	1.50	38.0
1J743-8-6-SM	1/2	13/16x16	3/8	2.53	64.0	0.59	15	24 mm	1.50	38.0
1J743-8-8	1/2	13/16x16	1/2	3.19	81.0	0.59	15	15/16	1.93	49.0
1J743-8-8-SM	1/2	13/16x16	1/2	3.19	81.0	0.59	15	24 mm	1.93	49.0
1J743-8-10	1/2	13/16x16	5/8	3.09	78.0	0.59	15	15/16	1.65	42.0
1J743-10-8	5/8	1x14	1/2	3.75	95.0	0.63	16	1-1/8	2.50	63.0
1J743-10-10	5/8	1x14	5/8	3.73	94.7	0.63	16	1-1/8	2.29	58.2
1J743-10-12	5/8	1x14	3/4	3.36	85.0	0.65	16	1-1/8	1.93	49.0
1J743-12-8	3/4	1-3/16x12	1/2	3.57	91.0	0.82	21	1-3/8	2.31	59.0
1J743-12-10	3/4	1-3/16x12	5/8	3.62	92.0	0.83	21	1-3/8	2.18	55.0
1J743-12-12	3/4	1-3/16x12	3/4	4.55	115.57	0.83	21	1-3/8	3.11	79.0
1J743-12-16	3/4	1-3/16x12	1	3.67	93.0	0.81	21	1-3/8	2.05	52.0
1J743-16-12	1	1-7/16x12	3/4	4.02	102.0	0.94	24	1-5/8	2.59	66.0
1J743-16-16	1	1-7/16x12	1	4.38	111.0	0.94	24	1-5/8	2.76	70.0
1J743-16-20	1	1-7/16x12	1-1/4	4.59	117.0	0.94	24	1-5/8	2.94	75.0
1J743-20-16	1-1/4	1-11/16x12	1	4.52	115.0	1.00	25	1-7/8	2.93	74.0
1J743-20-20	1-1/4	1-11/16x12	1-1/4	4.78	121.0	1.00	25	1-7/8	3.09	78.0
1J743-24-20	1-1/2	2x12	1-1/4	4.99	127.0	1.11	28	2-1/4	3.30	84.0
1J743-24-24	1-1/2	2x12	1-1/2	4.70	119.0	1.07	27	2-1/4	3.33	85.0

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See Accessories Section for O-Rings.

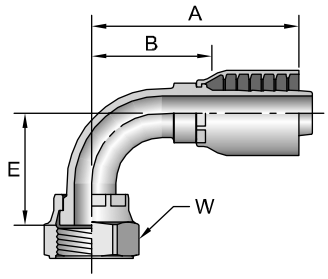
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1J943

Female Seal-Lok® - Swivel - 90° Elbow - Short Drop

ISO 12151-1 - SWES90

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J943-4-4	1/4	9/16x18	1/4	1.78	45	0.83	21	11/16	1.03	26
1J943-4-6	1/4	9/16x18	3/8	2.05	52	0.83	21	11/16	1.02	26
1J943-6-4	3/8	11/16x16	1/4	1.93	49	0.91	23	13/16	1.18	30
1J943-6-6	3/8	11/16x16	3/8	2.24	57	0.91	23	13/16	1.22	31
1J943-6-8	3/8	11/16x16	1/2	2.53	64	0.90	23	13/16	1.27	32
1J943-8-4	1/2	13/16x16	1/4	2.28	58	1.15	29	15/16	1.53	39
1J943-8-6	1/2	13/16x16	3/8	2.28	58	1.14	29	15/16	1.25	32
1J943-8-8	1/2	13/16x16	1/2	2.50	63	1.14	29	15/16	1.24	32
1J943-8-8-SM	1/2	13/16x16	1/2	2.50	63	1.14	29	24 mm	1.24	32
1J943-8-10	1/2	13/16x16	5/8	2.81	71	1.15	29	15/16	1.37	35
1J943-10-8	5/8	1x14	1/2	2.97	75	1.26	32	1-1/8	1.71	43
1J943-10-10	5/8	1x14	5/8	3.01	76	1.26	32	1-1/8	1.56	40
1J943-10-10-SM	5/8	1x14	5/8	3.01	76	1.26	32	30 mm	1.56	40
1J943-10-12	5/8	1x14	3/4	3.08	78	1.27	32	1-1/8	1.64	42
1J943-12-8	3/4	1-3/16x12	1/2	3.21	82	1.89	48	1-3/8	1.95	50
1J943-12-10	3/4	1-3/16x12	5/8	3.49	89	1.89	48	1-3/8	2.05	52
1J943-12-12	3/4	1-3/16x12	3/4	3.49	89	1.89	48	1-3/8	2.05	52
1J943-12-16	3/4	1-3/16x12	1	3.88	99	1.89	48	1-3/8	2.26	57
1J943-16-12	1	1-7/16x12	3/4	4.06	103	2.22	56	1-5/8	2.62	67
1J943-16-16	1	1-7/16x12	1	4.31	109	2.20	56	1-5/8	2.69	68
1J943-16-20	1	1-7/16x12	1-1/4	4.56	116	2.21	56	1-5/8	2.87	73
1J943-20-16	1-1/4	1-11/16x12	1	4.64	118	2.54	65	1-7/8	3.02	80
1J943-20-20	1-1/4	1-11/16x12	1-1/4	4.88	124	2.51	64	1-7/8	3.19	81
1J943-24-24	1-1/2	2x12	1-1/2	5.50	140	2.68	68	2-1/4	4.13	105



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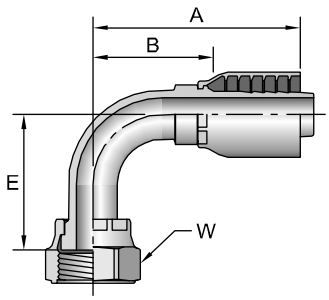
1J543

Female Seal-Lok® - Swivel - 90° Elbow - Medium Drop

ISO 12151-1 - SWEM90

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J543-4-4	1/4	9/16x18	1/4	2.07	53	1.26	32	11/16	1.32	34
1J543-6-4	3/8	11/16x16	1/4	2.12	54	1.50	38	13/16	1.41	36
1J543-6-6	3/8	11/16x16	3/8	2.40	61	1.50	38	13/16	1.37	35
1J543-8-6	1/2	13/16x16	3/8	2.48	63	1.61	41	15/16	1.45	37
1J543-8-8	1/2	13/16x16	1/2	2.55	65	1.61	41	15/16	1.29	33
1J543-10-8	5/8	1x14	1/2	2.97	75	1.85	47	1-1/8	1.71	43
1J543-10-10	5/8	1x14	5/8	3.10	79	1.85	47	1-1/8	1.66	42
1J543-10-12	5/8	1x14	3/4	3.28	83	1.88	48	1-1/8	1.84	47
1J543-12-12	3/4	1-3/16x12	3/4	3.49	89	2.28	58	1-3/8	2.05	52
1J543-16-16	1	1-7/16x12	1	4.31	110	2.78	71	1-5/8	2.69	68
1J543-20-20	1-1/4	1-11/16x12	1-1/4	4.89	124	3.09	78	1-7/8	3.20	81



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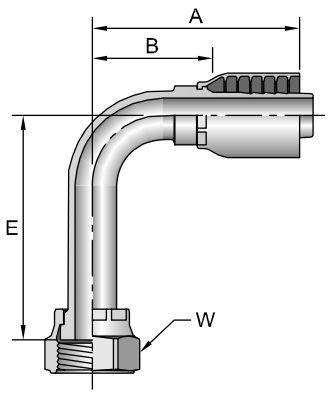
See Accessories Section for O-Rings.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1J143

Female Seal-Lok® - Swivel - 90° Elbow - Long Drop

ISO 12151-1 - SWEL90



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J143-4-4	1/4	9/16x18	1/4	2.02	51	1.81	46	11/16	1.27	32
1J143-6-4	3/8	11/16x16	1/4	2.26	57	2.13	54	13/16	1.51	38
1J143-6-6	3/8	11/16x16	3/8	2.39	61	2.13	54	13/16	1.36	35
1J143-8-6	1/2	13/16x16	3/8	2.45	62	2.52	64	15/16	1.42	36
1J143-8-8	1/2	13/16x16	1/2	2.55	65	2.52	64	15/16	1.29	33
1J143-10-8	5/8	1x14	1/2	2.97	75	2.76	70	1-1/8	1.71	43
1J143-10-10	5/8	1x14	5/8	3.10	79	2.76	70	1-1/8	1.66	42
1J143-10-12	5/8	1x14	3/4	3.15	80	2.76	70	1-1/8	1.73	44
1J143-12-12	3/4	1-3/16x12	3/4	3.49	89	3.78	96	1-3/8	2.05	52
1J143-16-16	1	1-7/16x12	1	4.31	109	4.49	114	1-5/8	2.69	68
1J143-20-20	1-1/4	1-11/16x12	1-1/4	4.84	123	5.09	129	1-7/8	3.15	80
1J143-24-20	1-1/2	2x12	1-1/4	4.77	121	5.54	141	2-1/4	3.12	79

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

Universal Push-to-Connect (UPTC) Introduction

Traditionally, the fluid power industry has used threaded connectors to make a leak free connection. The speed of making connections is slow and the reliability of the connection is dependent on proper assembly procedures. Parker's UPTC connectors rely on a mechanical retaining mechanism (other than threads) to create a seal.

Tools are not required for assembly, and the reliability and speed of making connections with the UPTC design is greatly improved compared to traditional threaded connections.

Features

- Available in sizes 1/4", 3/8", 1/2", 5/8", and 3/4"
- Uses standard Seal-Lok adapters for a wide variety of configurations, as well as excellent field serviceability
- Meets or exceeds SAE 100R2 pressure ratings (see Fig. 2)
- Includes visual and tactile installation indicators
- Seal-aligning nipple eliminates hose twist during assembly
- No special tooling required for disassembly
- Uses elastomeric seals, including Parker's patented Trap-Seal

Design and Construction

UPTC Seal-Lok consists of a base Seal-Lok ORFS fitting, a UPTC nut (including internal sealing and retaining elements), a dust O-Ring, and a UPTC hose assembly or rigid tube, as shown in figure 1. The base ORFS fitting is a highly reliable and widely available off-the-shelf standard SAE J1453 adapter. The sealing O-Ring is supported by a pressure energized anti-extrusion ring that prevents O-Ring extrusion and ensures tight sealing even under high pressure.

Once fully engaged, the retaining element is positively trapped between the male and UPTC nut. The dust O-Ring keeps contamination out and serves as a full engagement visual indicator. A clear tactile feeling at the end of the push indicates a proper connection. Once a proper connection is made, the dust O-Ring is covered by the UPTC nut. This also serves as a positive visual indicator of full engagement for easy inspection and quality control.

Once connected, the UPTC nut is permanently attached to the UPTC hose end similar to a traditional swivel nut. To disconnect, just use a wrench to unscrew the UPTC nut from the base adapter. Re-connect is possible by tightening the UPTC nut back to the base adapter, if the connection is not damaged. If the hose or tube is damaged, they can be replaced by installing a new UPTC assembly or a readily available standard Seal-Lok ORFS hose or tube assembly.

Fig. 1a Fig. 1b

Fig. 1a — This is a Tube Fittings Division part. Information can be found in Catalog 4300.

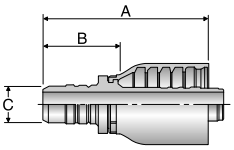
UPTC Pressure Ratings

Size	Pressure (psi)	Pressure (Bar)
-4	5800	400
-6	5000	345
-8	4250	293
-10	4000	276
-12	3125	216

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1EN43

UPTC Male



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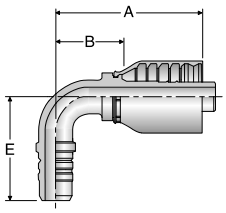
# Part Number	Hose End Size inch	A inch	B inch	C Nominal Connection Size inch	C Nominal Connection Size mm
1EN43-8-4	1/4	1.83	1.08	0.31	8
1EN43-12-6	3/8	2.15	1.12	0.47	12
1EN43-15-8	1/2	2.51	1.25	0.59	15
1EN43-18-10	5/8	2.78	1.34	0.71	18
1EN43-22-12	3/4	2.81	1.37	0.87	22

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1ET43

UPTC Male 90° Elbow



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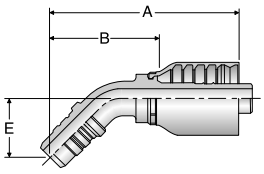
# Part Number	Hose End Size inch	A inch	B inch	C Nominal Connection Size inch	C Nominal Connection Size mm	E inch
1ET43-8-4	1/4	1.78	1.03	0.31	8	1.54
1ET43-12-6	3/8	2.21	1.18	0.47	12	1.54
1ET43-15-8	1/2	2.51	1.25	0.59	15	1.77
1ET43-18-10	5/8	2.97	1.53	0.71	18	2.24
1ET43-22-12	3/4	3.43	1.99	0.87	22	2.50

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1EU43

UPTC Male 45° Elbow



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# Part Number	Hose End Size inch	A inch	B inch	C Nominal Connection Size inch	C Nominal Connection Size mm	E inch
1EU43-8-4	1/4	2.48	1.73	0.31	8	0.91
1EU43-12-6	3/8	2.83	1.80	0.47	12	0.91
1EU43-15-8	1/2	3.17	1.91	0.59	15	0.99
1EU43-18-10	5/8	3.68	2.24	0.71	18	1.26
1EU43-22-12	3/4	3.76	2.32	0.87	22	1.30

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

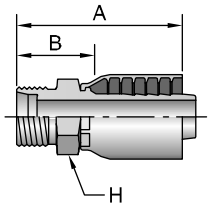
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1D043

Male Metric L - Rigid - (24° Cone)

ISO 12151-2

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1D043-6-4	6	M12x1,5	1/4	1.73	44	14	0.93	24
1D043-8-4	8	M14x1,5	1/4	1.61	41	14	0.93	24
1D043-10-5	10	M16x1,5	5/16	1.97	50	19	0.83	21
1D043-10-6	10	M16x1,5	3/8	1.97	50	19	0.83	21
1D043-12-6	12	M18x1,5	3/8	1.97	50	19	0.83	21
1D043-15-6	15	M22x1,5	3/8	1.93	49	22	1.02	26
1D043-15-8	15	M22x1,5	1/2	2.28	58	22	0.94	24
1D043-18-10	18	M26x1,5	5/8	2.68	68	27	1.14	29
1D043-18-12	18	M26x1,5	3/4	2.68	68	27	1.14	29
1D043-22-12	22	M30x2	3/4	2.72	69	30	1.22	31
1D043-28-16	28	M36x2	1	3.11	79	36	1.30	33
1D043-35-20	35	M45x2	1-1/4	3.35	85	46	1.50	38



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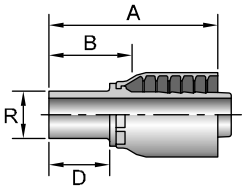
11D43

Male Standpipe Metric L - Rigid

End Connection per ISO 8434-1-SDS

# Part Number	R mm	Hose I.D. inch	A inch	A mm	D inch	D mm	B inch	B mm
11D43-6-4	6	1/4	2.03	52	0.87	22	1.28	33
11D43-10-5	10	5/16	2.36	60	0.91	23	1.45	37
11D43-10-6	10	3/8	2.28	58	0.91	23	1.14	29
11D43-15-8	15	1/2	2.56	65	0.98	25	1.22	31
11D43-18-10	18	5/8	2.99	76	1.02	26	1.48	38
11D43-18-12	18	3/4	2.80	71	1.02	26	1.22	31
11D43-22-12	22	3/4	2.87	73	1.10	28	1.26	32
11D43-28-16	28	1	3.31	84	1.18	30	1.46	37



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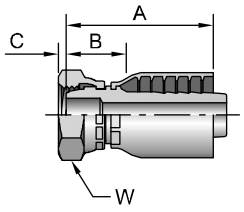
Metric L: Mates with EO "L" Series Fittings.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1C343

Female Metric L - Swivel - (Ball Nose)



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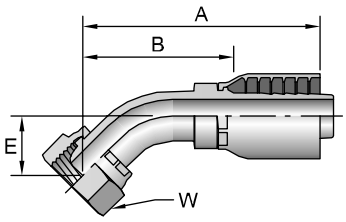
# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm
1C343-6-4	6	M12x1,5	1/4	1.75	44	0.09	2	14	1.16	29
1C343-8-4	8	M14x1,5	1/4	1.77	45	0.11	3	17	1.16	29
1C343-10-5	10	M16x1,5	5/16	2.01	51	0.06	2	19	1.20	30
1C343-10-6	10	M16x1,5	3/8	2.06	52	0.06	2	19	1.10	28
1C343-12-5	12	M18x1,5	5/16	1.87	47	0.10	3	22	0.70	18
1C343-12-6	12	M18x1,5	3/8	2.23	57	0.10	3	22	1.18	30
1C343-15-6	6	M22x1,5	3/8	1.85	47	0.16	4	27	0.71	18
1C343-15-8	15	M22x1,5	1/2	2.42	61	0.17	4	27	1.29	33
1C343-18-10	18	M26x1,5	5/8	2.65	67	0.10	3	32	1.23	31
1C343-18-12	18	M26x1,5	3/4	2.80	71	0.10	3	32	1.37	35
1C343-22-12	22	M30x2	3/4	2.87	73	0.18	5	36	1.42	36
1C343-28-16	28	M36x2	1	3.35	85	0.22	6	46	1.76	45

When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1C443

Female Metric L - Swivel - 45° Elbow - (Ball Nose)



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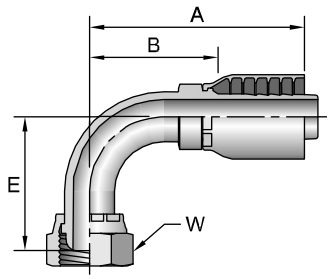
# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1C443-8-4	8	M14x1,5	1/4	2.40	61	0.59	15	17	1.50	38
1C443-10-5	10	M16x1,5	5/16	2.60	66	0.67	17	19	1.61	41
1C443-10-6	10	M16x1,5	3/8	2.76	70	0.67	17	19	1.61	41
1C443-12-6	12	M18x1,5	3/8	2.76	70	0.67	17	22	1.61	41
1C443-15-8	15	M22x1,5	1/2	3.35	85	0.79	20	27	1.97	50
1C443-18-10	18	M26x1,5	5/8	4.09	104	1.14	29	32	2.52	64
1C443-22-12	22	M30x2	3/4	3.78	96	0.91	23	36	2.20	56
1C443-28-16	28	M36x2	1	4.53	115	1.10	28	46	2.81	71

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1C543

Female Metric L - Swivel - 90° Elbow - (Ball Nose)



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# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1C543-8-4	8	M14x1,5	1/4	2.05	52	1.10	28	17	1.18	30
1C543-10-5	10	M16x1,5	5/16	2.20	56	1.18	30	19	1.22	31
1C543-10-6	10	M16x1,5	3/8	2.40	61	1.18	30	19	1.40	36
1C543-12-6	12	M18x1,5	3/8	2.40	61	1.22	31	22	1.40	36
1C543-15-8	15	M22x1,5	1/2	2.95	75	1.57	40	27	1.57	40
1C543-18-10	18	M26x1,5	5/8	3.58	91	2.36	60	32	2.05	52
1C543-22-12	22	M30x2	3/4	3.58	91	1.97	50	36	2.00	51
1C543-28-16	28	M36x2	1	4.33	110	2.48	63	46	2.56	65

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Metric L: Mates with EO "L" Series Fittings.

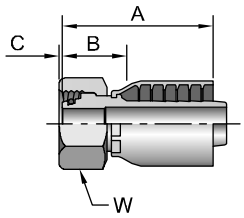
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1CA43

Female Metric L - Swivel - (24° Cone with O-Ring)

ISO 12151-2 - SWS

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	C inch	W mm	B inch	B mm
1CA43-6-4	6	M12x1,5	1/4	1.73	44	-0.02	14	0.88	22
1CA43-8-4	8	M14x1,5	1/4	1.73	44	-0.01	17	0.88	22
1CA43-8-5	8	M14x1,5	5/16	1.97	50	0.00	17	1.02	26
1CA43-10-4	10	M16x1,5	1/4	1.81	46	0.04	19	0.87	22
1CA43-10-5	10	M16x1,5	5/16	1.81	46	0.04	19	0.87	22
1CA43-10-6	10	M16x1,5	3/8	2.08	53	0.02	19	1.05	27
1CA43-12-5	12	M18x1,5	5/16	1.81	46	0.04	22	0.91	23
1CA43-12-6	12	M18x1,5	3/8	1.89	48	0.03	22	0.75	19
1CA43-15-8	15	M22x1,5	1/2	2.20	56	0.07	27	0.82	21
1CA43-18-10	18	M26x1,5	5/8	2.44	62	0.02	32	0.87	22
1CA43-18-12	18	M26x1,5	3/4	2.56	65	0.02	32	1.02	26
1CA43-22-12	22	M30x2	3/4	2.48	63	0.13	36	1.05	24
1CA43-28-16	28	M36x2	1	3.07	78	0.14	41	1.30	33
1CA43-35-20	35	M45x2	1-1/4	3.23	82	0.00	50	1.38	35
1CA43-42-24	42	M52x2	1-1/2	3.02	77	0.07	60	1.65	42



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When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

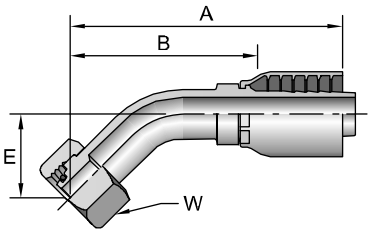
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1CE43

Female Metric L - Swivel - 45° Elbow - (24° Cone with O-Ring)

ISO 12151-2 - SWE45

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1CE43-6-4	6	M12x1,5	1/4	2.68	68	0.75	19	14	1.77	45
1CE43-8-4	8	M14x1,5	1/4	2.32	59	0.63	16	17	1.38	35
1CE43-10-5	10	M16x1,5	5/16	2.64	67	0.59	15	19	1.69	43
1CE43-10-6	10	M16x1,5	3/8	2.95	75	0.75	19	19	1.85	47
1CE43-12-6	12	M18x1,5	3/8	2.72	69	0.75	19	22	1.53	39
1CE43-15-8	15	M22x1,5	1/2	3.19	81	0.87	22	27	1.81	46
1CE43-18-10	18	M26x1,5	5/8	3.50	89	0.91	23	32	1.93	49
1CE43-22-12	22	M30x2	3/4	3.86	98	1.02	26	36	2.28	58
1CE43-28-16	28	M36x2	1	4.92	125	1.34	34	41	3.30	84



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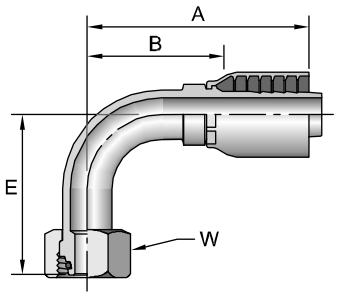
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1CF43

Female Metric L - Swivel - 90° Elbow - (24° Cone with O-Ring)

ISO 12151-2 - SWE



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# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1CF43-8-4	8	M14x1,5	1/4	2.01	51	1.14	29	17	1.10	28
1CF43-10-4	10	M16x1,5	1/4	2.05	52	1.14	29	19	1.10	28
1CF43-10-5	10	M16x1,5	5/16	2.40	61	1.16	29	19	1.46	37
1CF43-10-6	10	M16x1,5	3/8	2.56	65	1.38	35	19	1.46	37
1CF43-12-6	12	M18x1,5	3/8	2.52	64	1.42	36	22	1.38	35
1CF43-15-8	15	M22x1,5	1/2	2.80	71	1.69	43	27	1.46	37
1CF43-18-10	18	M26x1.5	5/8	3.17	81	1.77	45	32	1.61	41
1CF43-22-12	22	M30x2	3/4	3.50	89	2.17	55	36	1.93	49
1CF43-28-16	28	M36x2	1	4.44	113	3.07	78	41	2.82	72
1CF43-35-20	35	M45x2	1-1/4	5.12	130	3.11	79	50	3.27	83

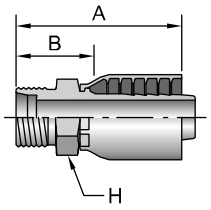
Metric L: Mates with EO "L" Series Fittings.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1D243

Male Metric S - Rigid - (24° Cone)

ISO 12151-2



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# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1D243-8-4	8	M16x1,5	1/4	1.73	44	17	0.87	22
1D243-10-4	10	M18x1,5	1/4	1.73	44	19	0.87	22
1D243-12-5	12	M20x1,5	5/16	2.20	56	22	1.29	33
1D243-12-6	12	M20x1,5	3/8	1.97	50	22	1.02	26
1D243-14-6	14	M22x1,5	3/8	2.17	55	22	0.98	25
1D243-16-8	16	M24x1,5	1/2	2.36	60	24	1.17	30
1D243-20-10	20	M30x2	5/8	2.95	75	30	1.44	37
1D243-25-12	25	M36x2	3/4	2.87	73	36	1.30	33
1D243-30-16	30	M42x2	1	3.39	86	46	1.54	39

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

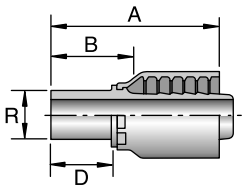
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

13D43

Male Standpipe Metric S - Rigid

End Connection per ISO 8434-1-SDS

# Part Number	R		Hose I.D.	A		D		B	
	mm		inch	inch	mm	inch	mm	inch	mm
13D43-10-4	10		1/4	2.13	54	1.02	26	1.26	32
13D43-16-8	16		1/2	2.68	68	1.18	30	1.42	36
13D43-20-10	20		5/8	3.39	86	1.42	36	1.88	48
13D43-20-12	20		3/4	3.19	81	1.42	36	1.57	40
13D43-25-12	25		3/4	3.35	85	1.57	40	1.73	44



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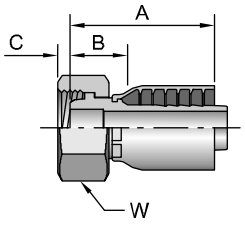
Light Series 11D43-6-4, 11D43-8-4 and 11D43-12-6 are used in place of their Heavy Series equivalent size and accept the EO Heavy "S" Series ferrules and nuts.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1C643

Female Metric S - Swivel - (Ball Nose)

# Part Number	Thread		Hose I.D.	A		C		W	B	
	mm		inch	inch	mm	inch	mm	mm	inch	mm
1C643-8-4	8	M16x1,5	1/4	1.57	40	0.15	4	19	1.20	30
1C643-10-4	10	M18x1,5	1/4	1.63	41	0.10	3	22	1.20	30
1C643-12-6	12	M20x1,5	3/8	1.76	45	0.08	2	24	1.32	34
1C643-12-8	12	M20x1,5	1/2	2.18	55	0.08	2	24	1.30	33
1C643-14-6	14	M22x1,5	3/8	1.94	49	0.17	4	27	1.32	34
1C643-16-8	16	M24x1,5	1/2	2.13	54	0.19	5	30	1.39	35
1C643-20-10	20	M30x2	5/8	2.38	60	0.21	5	36	1.39	35
1C643-20-12	20	M30x2	3/4	2.46	62	0.21	5	40	1.03	37
1C643-25-12	25	M36x2	3/4	2.48	63	0.28	7	46	1.56	40
1C643-30-16	30	M42x2	1	2.89	73	0.37	9	50	1.95	50



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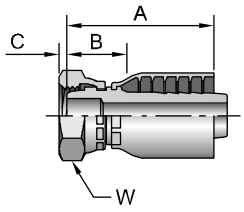
Metric L: Mates with EO "L" Series Fittings.
Metric S: Mates with EO "S" Series Fittings.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1C043

Female Metric - Swivel - (Ball Nose)



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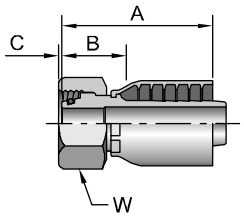
# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm
1C043-20-12	20	M30x1,5	3/4	2.48	63	0.21	5	36	0.94	24
1C043-25-16	25	M38x1,5	1	2.99	76	0.28	7	46	1.14	29

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1C943

Female Metric S - Swivel - (24˚ Cone with O-Ring)

ISO 12151-2 - SWS



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# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm
1C943-6-4	6	M14x1,5	1/4	1.89	48	0.01	0	17	1.02	26
1C943-8-4	8	M16x1,5	1/4	1.77	45	0.01	0	19	0.91	23
1C943-10-4	10	M18x1,5	1/4	1.81	46	0.01	0	22	0.87	22
1C943-10-6	10	M18x1,5	3/8	1.97	50	0.01	0	22	0.83	21
1C943-12-5	12	M20x1,5	5/16	1.89	48	0.03	1	24	0.94	24
1C943-12-6	12	M20x1,5	3/8	2.05	52	0.03	1	24	0.87	22
1C943-14-6	14	M22x1,5	3/8	1.97	50	0.03	1	27	0.83	21
1C943-16-8	16	M24x1,5	1/2	2.33	59	0.09	2	30	0.94	24
1C943-20-10	20	M30x2	5/8	2.59	66	0.05	1	36	1.06	27
1C943-20-12	20	M30x2	3/4	2.59	66	0.05	1	36	1.06	27
1C943-25-12	25	M36x2	3/4	2.67	68	0.10	3	46	1.10	28
1C943-25-16	25	M36x2	1	3.07	78	0.08	2	46	1.30	33
1C943-30-16	30	M42x2	1	3.03	77	0.19	5	50	1.26	32
1C943-38-20	38	M52x2	1-1/4	3.15	80	0.23	6	60	1.30	33

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

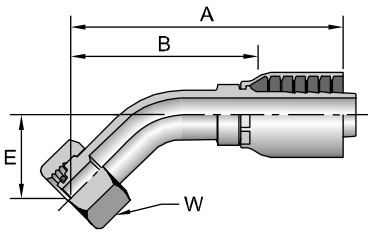
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

10C43

Female Metric S - Swivel - 45˚ Elbow - (24˚ Cone with O-Ring)

ISO 12151-2 - SWE45

# Part Number	Thread		Hose I.D.	A		E		W	B	
	mm		inch	inch	mm	inch	mm	mm	inch	mm
10C43-8-4	8	M16x1,5	1/4	2.32	59	0.63	16	19	1.38	35
10C43-12-6	12	M20x1,5	3/8	2.72	69	0.79	20	24	1.57	40
10C43-14-6	14	M22x1,5	3/8	2.99	76	0.79	20	27	1.96	50
10C43-16-8	16	M24x1,5	1/2	3.23	82	0.94	24	30	1.89	48
10C43-20-10	20	M30x2	5/8	3.58	91	0.98	25	36	2.05	52
10C43-20-12	20	M30x2	3/4	3.94	100	1.14	29	36	2.36	60
10C43-25-12	25	M36x2	3/4	3.97	101	1.18	30	46	2.40	61
10C43-30-16	30	M42x2	1	4.96	126	1.42	36	50	3.11	79
10C43-38-20^^	38	M52x2	1-1/4	5.59	142	1.50	38	60	3.74	95



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^^Must be assembled with Die Part No. 83C-A20H in a Superkrimp or Parkrimp 2.

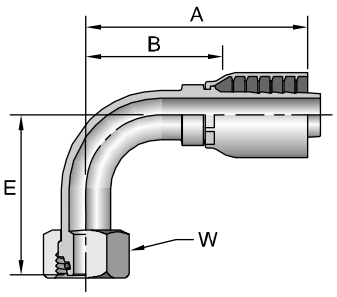
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11C43

Female Metric S - Swivel - 90˚ Elbow - (24˚ Cone with O-Ring)

ISO 12151-2 - SWE

# Part Number	Thread		Hose I.D.	A		E		W	B	
	mm		inch	inch	mm	inch	mm	mm	inch	mm
11C43-8-4	8	M16x1,5	1/4	1.89	48	1.14	29	19	1.02	26
11C43-10-4	10	M18x1,5	1/4	1.97	50	1.14	29	22	1.02	26
11C43-12-5	12	M20x1,5	5/16	2.36	60	1.26	32	24	1.42	36
11C43-12-6	12	M20x1,5	3/8	2.56	65	1.46	37	24	1.38	35
11C43-14-6	14	M22x1,5	3/8	2.56	65	1.46	37	27	1.38	35
11C43-16-8	16	M24x1,5	1/2	2.83	72	1.77	45	30	1.46	37
11C43-20-10	20	M30x2	5/8	3.11	79	1.89	48	36	1.57	40
11C43-20-12	20	M30x2	3/4	3.52	89	2.26	58	36	2.08	53
11C43-25-12	25	M36x2	3/4	3.50	89	2.32	59	46	1.93	49
11C43-25-16	25	M36x2	1	4.29	109	2.72	69	46	2.67	68
11C43-30-16	30	M42x2	1	4.53	115	2.99	76	50	2.68	68
11C43-38-20^^	38	M52x2	1-1/4	5.12	130	3.15	80	60	3.27	83



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^^Must be assembled with Die Part No. 83C-A20H in a Superkrimp or Parkrimp 2.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

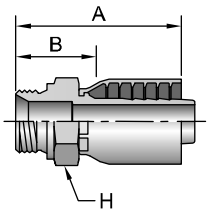
When used in a port, a bonded seal must be used.
See Accessories Section for more information.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1D943

Male BSP Parallel Pipe - Rigid - (60° Cone)

ISO 12151-6



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1D943-4-4	1/4x19	1/4	1.77	45	19	0.91	23
1D943-6-5	3/8x19	5/16	2.13	54	22	1.22	31
1D943-6-6	3/8x19	3/8	2.13	54	22	1.22	31
1D943-8-6	1/2x14	3/8	2.36	60	27	1.22	31
1D943-8-8	1/2x14	1/2	2.44	62	27	1.10	28
1D943-12-12	3/4x14	3/4	2.76	70	32	1.18	30
1D943-16-16	1x11	1	3.23	82	41	1.38	35

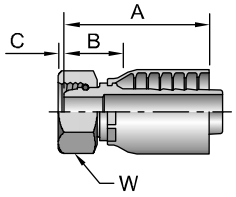
When used in a port, a bonded seal must be used.
See Accessories Section for more information.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

19243

Female BSP Parallel Pipe - Swivel - (60° Cone)

ISO 12151-6



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm
19243-2-4	1/8x28	1/4	1.61	41	0.20	5	14	0.67	17
19243-4-4	1/4x19	1/4	1.95	50	0.22	6	19	1.20	30
19243-6-4	3/8x19	1/4	1.73	44	0.26	7	22	0.79	20
19243-6-6	3/8x19	3/8	2.35	60	0.26	7	22	1.32	34
19243-6-8	3/8x19	1/2	2.17	55	0.26	7	22	0.79	20
19243-8-6	1/2x14	3/8	2.01	51	0.28	7	27	0.87	22
19243-8-8	1/2x14	1/2	2.72	69	0.28	7	27	1.46	37
19243-10-8	5/8x14	1/2	2.80	71	0.37	9	30	1.54	39
19243-10-10	5/8x14	5/8	2.99	76	0.37	9	30	1.55	39
19243-12-10	3/4x14	5/8	3.11	79	0.35	9	36	1.67	42
19243-12-12	3/4x14	3/4	3.19	81	0.35	9	36	1.75	44
19243-16-16	1x11	1	3.67	93	0.44	11	41	2.05	52
19243-20-20	1-1/4x11	1-1/4	3.11	79	0.41	11	50	1.26	32

When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

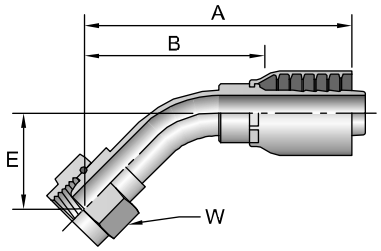
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1B143

Female BSP Parallel Pipe - Swivel - 45° Elbow - (60° Cone)

ISO 12151-6

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1B143-4-4	1/4x19	1/4	2.26	57	0.61	15	19	1.51	38
1B143-6-6	3/8x19	3/8	2.61	66	0.67	17	22	1.59	40
1B143-8-8	1/2x14	1/2	3.10	78	0.79	20	27	1.85	46
1B143-10-10	5/8x14	5/8	3.53	89	0.91	23	30	2.08	52
1B143-12-10	3/4x14	5/8	3.47	88	0.87	22	32	2.02	51
1B143-12-12	3/4x14	3/4	3.77	95	0.98	24	32	2.34	59
1B143-16-16	1x11	1	4.72	119	1.22	30	41	3.10	78



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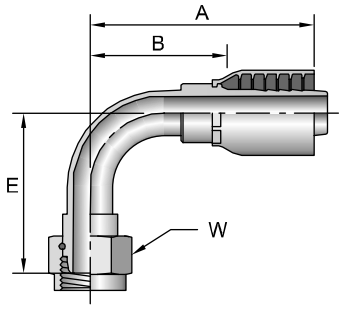
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1B243

Female BSP Parallel Pipe - Swivel - 90° Elbow - (60° Cone)

ISO 12151-6

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1B243-2-4	1/8x28	1/4	1.97	50	1.10	28	14	1.02	26
1B243-4-4	1/4x19	1/4	1.83	46	1.12	28	19	1.08	27
1B243-6-6	3/8x19	3/8	2.32	59	1.46	37	22	1.32	34
1B243-8-8	1/2x14	1/2	2.95	75	1.57	40	27	1.57	40
1B243-10-8	5/8x14	1/2	2.91	74	1.57	40	30	1.54	39
1B243-10-10	5/8x14	5/8	3.13	80	1.57	40	30	1.72	44
1B243-12-10	3/4x14	5/8	3.62	92	2.32	59	32	2.05	52
1B243-12-12	3/4x14	3/4	3.58	91	2.32	59	32	2.00	51
1B243-16-16	1x11	1	4.33	110	2.48	63	41	2.56	65
1B243-20-20	1-1/4x11	1-1/4	4.72	120	2.99	76	50	2.87	73



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Metric S: Mates with EO "S" Series Fittings.
When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

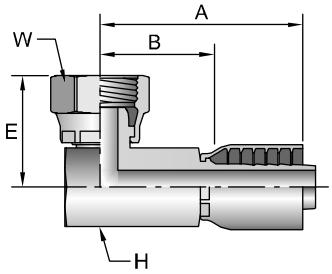
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1B443

Female BSP Parallel Pipe - Swivel - 90° Elbow - Block Type - (60° Cone)

ISO 228-1

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	H mm	W mm	B inch	B mm
1B443-4-4	1/4x19	1/4	2.40	61	1.14	29	17	19	1.40	36
1B443-6-6	3/8x19	3/8	2.76	70	1.02	26	19	22	1.42	36
1B443-8-8	1/2x14	1/2	3.19	81	1.02	26	22	27	1.57	40



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

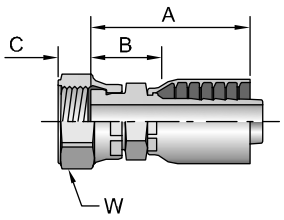
Metric S: Mates with EO "S" Series Fittings.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1B543

Female BSP Parallel Pipe - Swivel - (Flat Seat)

ISO 228-1



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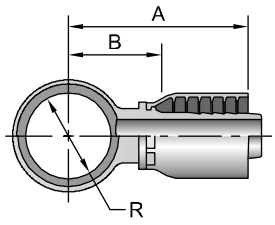
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm
1B543-8-6	1/2x14	3/8	1.89	48	0.43	11	27	0.75	19
1B543-8-8	1/2x14	1/2	2.28	58	0.43	11	27	0.94	24

When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

14943

DIN Metric Banjo



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# Part Number	R mm	Hose I.D. inch	A inch	A mm	B inch	B mm
14943-10-4	10	1/4	1.85	47	0.94	24
14943-12-4	12	1/4	1.85	47	0.98	25
14943-14-5	14	5/16	2.01	51	1.06	27
14943-16-6	16	3/8	2.28	58	1.14	29
14943-18-8	18	1/2	2.60	66	1.22	31
14943-22-10	22	5/8	2.91	74	1.38	35
14943-26-12	26	3/4	3.07	78	1.54	39

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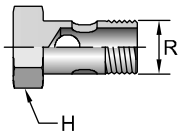
AM Banjo Bolt w/DIN Metric Thread



# Part Number	R Thread mm		H mm	Copper Washer 2
AM-03	8	M8x1	12	853009-8
AM-04	10	M10x1	14	853009-10
AM-06	12	M12x1,5	17	853009-12
AM-08	14	M14x1,5	19	853009-14
AM-10	16	M16x1,5	22	853009-16
AM-13	18	M18x1,5	24	853009-18
AM-16	22	M22x1,5	27	853009-22
AM-20	26	M26x1,5	32	853009-26
AM-30	30	M30x1,5	36	853009-30

Two (2) copper washers per bolt must be ordered separately.

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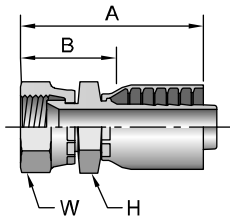
Metric S: Mates with EO "S" Series Fittings.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1MU43

Female Metric - Swivel - (30˚ Flare)

# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1MU43-4-4	M14x1,5	1/4	2.07	53	19	19	1.32	34
1MU43-6-4	M18x1,5	1/4	2.18	55	24	24	1.43	36
1MU43-6-6	M18x1,5	3/8	2.45	62	24	24	1.42	36
1MU43-8-8	M22x1,5	1/2	2.84	72	27	27	1.58	40



Japanese Fittings - Female Swivel 30˚ Flare with Metric Threads. All 30˚ flared fitting sizes are available by combining the 1MU43 fittings in sizes up to -8 with the 1XU43 fittings in sizes -10 and larger.

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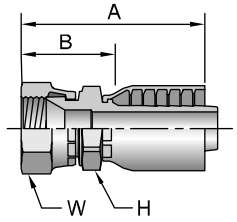
1XU43

Female Metric - Swivel - (30˚ Flare)

# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1XU43-10-10	M24x1,5	5/8	3.25	83	30	32	1.81	46
1XU43-12-12	M30x1,5	3/4	3.40	86	32	36	1.96	50
1XU43-16-16	M33x1,5	1	4.03	102	36	41	2.41	61



Japanese Fittings - Female Swivel 30˚ Flare with Metric Threads. All 30˚ flared fitting sizes are available by combining the 1MU43 fittings in sizes up to -8 with the 1XU43 fittings in sizes -10 and larger.

view on web page

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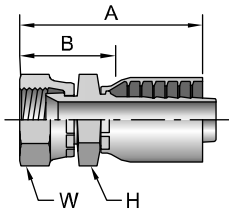
1FU43

Female BSP Parallel Pipe - Swivel - (30˚ Flare)

B8363 Code F

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1FU43-4-4	1/4x19	1/4	1.90	48	19	19	1.15	29
1FU43-6-6	3/8x19	3/8	2.32	59	22	22	1.29	33
1FU43-8-8	1/2x14	1/2	2.66	68	27	27	1.40	36
1FU43-12-12	3/4x14	3/4	3.06	78	36	36	1.62	41
1FU43-16-16	1x11	1	3.53	90	41	41	1.91	49
1FU43-20-20	1-1/4x11	1-1/4	3.87	98	50	50	2.18	55



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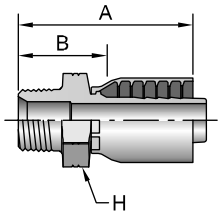
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1UT43

Male BSP Taper Pipe - Rigid - (60° Cone)

B8363 Code R



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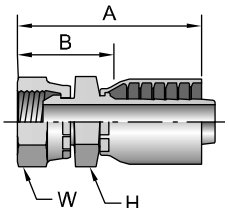
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1UT43-4-4	1/4x19	1/4	1.92	49	19	1.17	30
1UT43-6-6	3/8x19	3/8	2.25	57	22	1.22	31
1UT43-8-8	1/2x14	1/2	2.68	68	27	1.42	36
1UT43-12-12	3/4x14	3/4	2.96	75	36	1.53	39
1UT43-16-16	1x11	1	3.48	88	41	1.86	47
1UT43-20-20	1-1/4x11	1-1/4	3.75	95	50	2.10	53

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1GU43

Female BSP Parallel Pipe - Swivel - (60° Cone)

B8363 Code C



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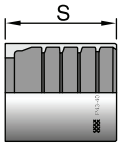
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1GU43-4-4	1/4x19	1/4	2.08	53	19	19	1.33	34
1GU43-6-6	3/8x19	3/8	2.45	62	22	22	1.42	36
1GU43-8-8	1/2x14	1/2	2.81	71	27	27	1.56	40
1GU43-12-12	3/4x14	3/4	3.24	82	36	36	1.81	46
1GU43-16-16	1x11	1	3.74	95	41	41	2.12	54
1GU43-20-20	1-1/4x11	1-1/4	4.07	103	50	50	2.38	60

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10043

43 Series Crimp Shell



# Part Number	Hose I.D. inch	S inch	S mm
10043-40	2-1/2	2.63	66,8
10043-48	3	2.95	75,0

-40 size sold as a two piece fitting. Approved for 187 Hose only.

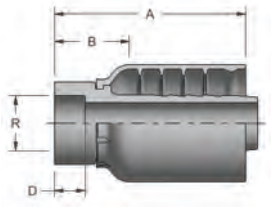
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

1S943

Female Slip-Fit Counterbore for Brazing - Straight

(Inch Size Tube O.D)



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# Part Number	Tube Size and Material	Tube Diameter R	Counter Bore Depth D	Cut-Off B	End of Shell A	Maximum Working Pressure for Fitting**	Hose I.D.
1S943-4-4	1/4" OD x .049" wall SAE J525	0.250	0.34	0.67	1.42	4,000	1/4"
1S943-6-6	3/8" OD x .065" wall SAE J525	0.375	0.34	0.65	1.67	4,000	3/8"
1S943-8-6	1/2" OD x .083" wall SAE J525	0.500	0.34	0.71	1.74	4,000	3/8"
1S943-8-8	1/2" OD x .083" wall SAE J525	0.500	0.34	0.62	1.88	4,000	1/2"
1S943-10-8	5/8" OD x .095" wall SAE J525	0.625	0.35	0.73	1.99	4,000	1/2"
1S943-10-10	5/8" OD x .095" wall SAE J525	0.625	0.35	0.75	2.19	4,000	5/8"
1S943-12-12	3/4" OD x .120" wall SAE J525	0.750	0.49	0.90	2.34	4,000	3/4"
1S943-16-16	1.0" OD x .120" wall SAE J525	1.000	0.55	1.14	2.76	3,000	1"
1S943-20-20	1.25" OD x .148" wall SAE J525	1.250	0.55	1.28	2.97	3,000	1-1/4"
1S943-20-20C	1.25" OD x .095" wall 316 Stainless Steel	1.250	0.55	1.28	2.97	3,000	1-1/4"

ALL 1S943 FITTINGS ARE SHIPPED WITHOUT PLATING AND WILL REQUIRE PLATING OR PAINTING AFTER THE BRAZING PROCESS

Caution: Braze joint designed for silver braze only.

Fitting maximum working pressure rating has to be greater than or equal to the hose maximum working pressure.

****Pressure rating based on SAE J525 tubing and recommended wall thickness noted.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

Silver Brazing

Silver brazing is the method of attaching the '1S9' braze nipple to the tube end. This process can be accomplished by using an induction brazing unit. (Note: induction brazing units are not available through Hose Products Division). During the heating process, the pre-formed braze ring is melted between the tube O.D. and the braze nipple counter-bore I.D., creating a strong bond between the two components.

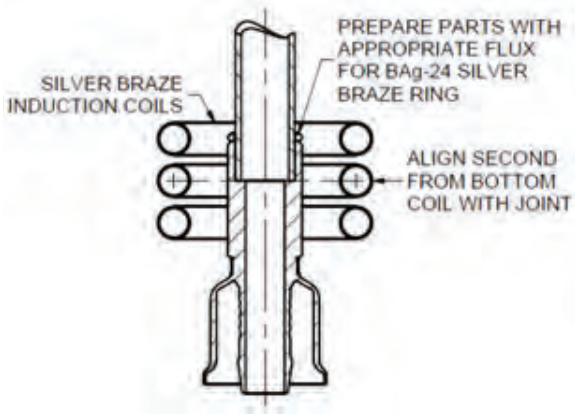
Brazing Steps:

1. **Cleaning the tube end:** All oil and oxide build-up must be removed from the tube end for at least the length of the braze joint. Oil may be removed by using an oil-free solvent. Oxide build-up may be removed by pickling or by lightly sanding with an aluminum-free emery paper.

2. **Fixturing the parts for brazing:** Care should be taken so the braze fixture allows the tube to settle and seat on the bottom of the counter-bore completely during heating. Since the braze nipple counter-bore is designed for a slip fit, this should happen easily. Short tubes can be brazed in the vertical position. On longer tubes, the joint may need to be in the horizontal position, requiring a slight nudge to seat the tube at the bottom of the counter-bore on the braze nipple.

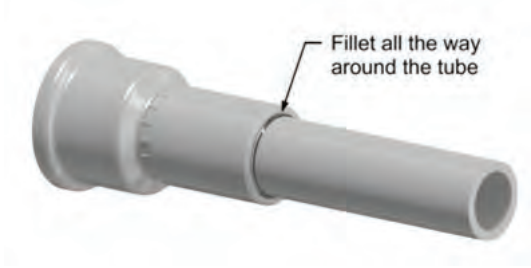
3. **Applying flux:** Apply proper flux on to the tube end, braze nipple face and outside surface. Slide appropriate braze ring on tube and seat tube at bottom of counter-bore on braze nipple. The flux helps protect the parts from oxidizing and promotes braze flow.

5. **Heating the part:** Apply heat uniformly to the joint by using an induction braze unit. Proper brazing involves heating the assembly to brazing temperature and flowing the filler metal through the joint. Heat should be applied broadly and uniformly to the tube as well as the upper body of the braze nipple. Thicker fitting and tubing sections take longer to heat. The tube and upper body of the braze nipple should heat to brazing temperature at about the same time. The braze alloy will always flow towards the area of higher temperature. In the drawing shown, the pre-formed BAg-24 silver braze ring has been placed on the tube at the top of the braze nipple counter-bore. The braze material will flow to the bottom of the counter-bore.



6. **Cleaning the brazed joint:** After stopping heat application, allow the product to air cool. Any remaining residue can be removed by careful wire brushing or standard cleaning procedures to remove traces of discoloration and excess flux residue.

7. **Corrosion protection after brazing:** This is an extremely important step following brazing. If the brazed parts are not to be plated or painted soon after brazing, a coating of rust inhibitors such as WD-403 or SP-3504 is recommended for the braze and heat affected area.



Inspection of Brazing

Inspect the braze for a fillet all the way around the tube at the top of the counter-bore on the braze nipple.

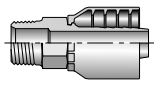
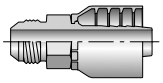
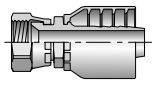
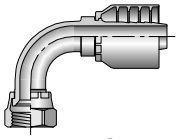
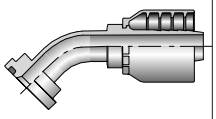
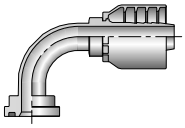
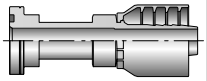
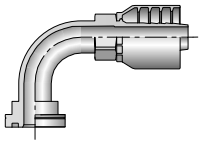
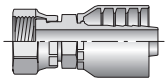
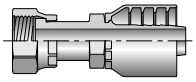
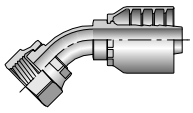
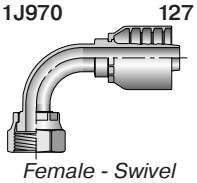
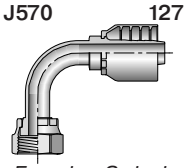
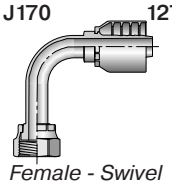
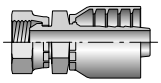
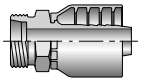
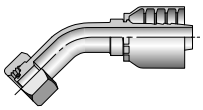
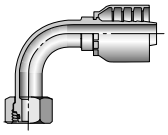
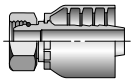
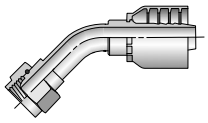
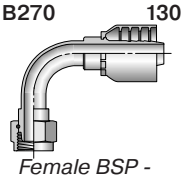
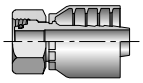
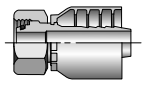
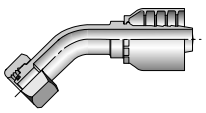
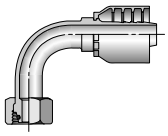
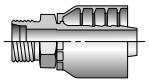
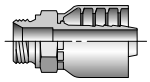
Caution: If there are gaps in the fillet, the joint may not be sound. In this case, re-brazing is recommended. Remove the braze nipple and re-braze a new one in its place.

3) A product of WD-40 Company, San Diego, CA 92220.
4) A product of CRC Chemicals, USA, Warminister, PA 18974 (215) 674-4300

NOTE: All S9 fittings are shipped WITHOUT PLATING and will need to be plated or painted once the brazing process is completed.

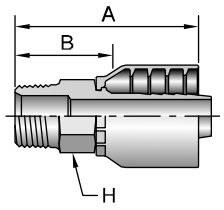
Use with hoses: 187/TC/ST, 302, 304, 387/TC/ST, 422, 424, 426, 436, 471TC, 471ST, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 881

70 Series Fittings

NPTF Pipe	10170 124  *Male - Rigid*	**JIC 37˚**	10370 124  *Male - Rigid*	10670 124  *Female - Swivel*	13970 124  *Female - Swivel 90˚ Elbow - Short*
Code 61 Flange	11770 125  *45˚ Elbow*	11970 125  *90˚ Elbow*	**Code 62 Flange**	16A70 125  *Flange Head*	16N70 126  *90˚ Elbow*
Seal-Lok® (O-Ring Face Seal)	1JC70 126  *Female - Swivel Short*	1JS70 126  *Female - Swivel Long*	1J770 127  *Female - Swivel 45˚ Elbow*	1J970 127  *Female - Swivel 90˚ Elbow - Short*	1J570 127  *Female - Swivel 90˚ Elbow - Medium*
1J170 127  *Female - Swivel 90˚ Elbow - Long*	**BSP 60˚ Cone**	1GU70 128  *Female - Swivel*	**French Gaz**	1FG70 128  *Male - Rigid*	**Metric**
10C70 128  *Female Metric S - Swivel - 45˚ Elbow*	11C70 129  *Female Metric S - Swivel - 90˚ Elbow*	19270 129  *Female BSP - Swivel - 60˚ Cone*	1B170 129  *Female BSP - Swivel - 45˚ Elbow*	1B270 130  *Female BSP - Swivel - 90˚ Elbow*	1C970 130  *Female - Swivel*
1CA70 130  *Female Metric L - Swivel - 24˚ Cone*	1CE70 131  *Female Metric L - Swivel - 45˚ Elbow*	1CF70 131  *Female Metric L - Swivel - 90˚ Elbow*	1D270 131  *Male Metric S - Rigid*	1D970 131  *Male - BSP - Rigid*	

10170

Male NPTF Pipe - Rigid



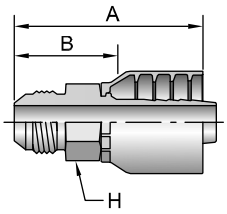
view on web page

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10170-6-6	3/8x18	3/8	2.37	60	3/4	1.47	37
10170-8-8	1/2x14	1/2	2.84	72	7/8	1.40	36

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10370

Male JIC 37˚ - Rigid



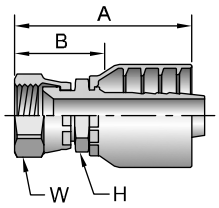
view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10370-8-8	1/2	3/4x16	1/2	2.68	68	7/8	1.47	37
10370-10-8	5/8	7/8x14	1/2	2.62	66	15/16	1.41	36

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10670

Female JIC 37° - Swivel



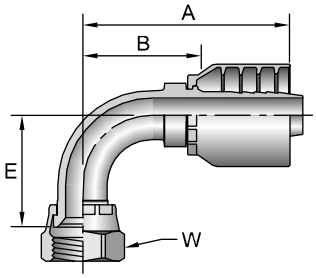
view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
10670-6-6	3/8	9/16x18	3/8	2.29	58	11/16	11/16	1.39	35
10670-8-8	1/2	3/4x16	1/2	2.62	67	13/16	7/8	1.41	36
10670-10-8	5/8	7/8x14	1/2	2.85	72	7/8	1	1.64	42
10670-10-10	5/8	7/8x14	5/8	2.84	72	15/16	1	1.59	40

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

13970

Female JIC 37° - Swivel - 90° Elbow - Short Drop



view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
13970-8-8	1/2	3/4x16	1/2	2.62	67	1.14	29	7/8	1.41	36

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

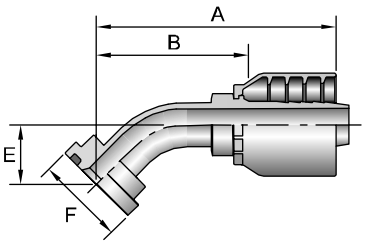
Use with hoses: F42

11770

SAE Code 61 Flange Head - 45˚ Elbow

ISO 12151-3 - 45S - L

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11770-8-8	1/2	1/2	3.28	83	0.77	20	1-3/16	2.07	53



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

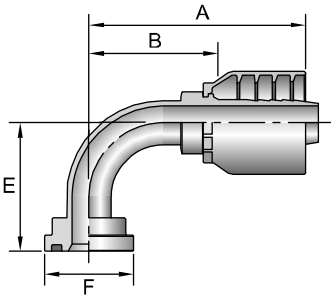
view on web page

11970

SAE Code 61 Flange Head - 90˚ Elbow

ISO 12151-3 - E90S - L

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11970-8-8	1/2	1/2	2.93	74	1.60	41	1-3/16	1.72	44
11970-12-10	3/4	5/8	3.54	90	2.02	51	1-1/2	2.29	58



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

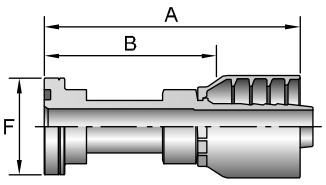
view on web page

16A70

SAE Code 62 Flange Head

ISO 12151-3 - S - S

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm
16A70-8-8	1/2	1/2	3.50	88,9	1-1/4	2.29	56,9



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

view on web page

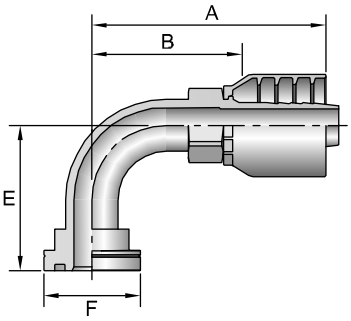
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: F42

16N70

SAE Code 62 Flange Head - 90˚ Elbow

ISO 12151-3 - E90S - S (1 Piece: ISO 12151-3 - E90M - S)



view on web page

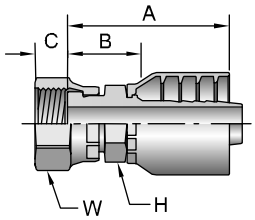
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
16N70-8-8	1/2	1/2	2.60	66	1.61	41	1-1/4	1.34	34

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1JC70

Female Seal-Lok® - Swivel - Short

ISO 12151- 1 - SWSA



view on web page

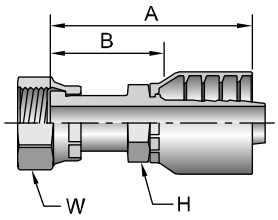
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	C inch	C mm	H inch	W inch	B inch	B mm
1JC70-6-6	3/8	11/16x16	3/8	1.94	49	0.34	9	11/16	13/16	1.04	26
1JC70-8-6	1/2	13/16x16	3/8	2.00	51	0.43	11	13/16	15/16	1.10	28
1JC70-8-8	1/2	13/16x16	1/2	2.22	56	0.43	11	13/16	15/16	1.01	26
1JC70-10-10	5/8	1x14	5/8	2.40	61	0.53	13	15/16	1-1/8	1.15	29

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1JS70

Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB



view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
1JS70-6-6	3/8	11/16x16	3/8	2.28	58	11/16	13/16	1.38	35
1JS70-8-8	1/2	13/16x16	1/2	2.65	67	13/16	15/16	1.44	37
1JS70-12-8	3/4	1-3/16x12	1/2	2.90	74	1-1/8	1-3/8	1.69	43
1JS70-12-10	3/4	1-3/16x12	5/8	3.10	79	1-1/8	1-3/8	1.85	47

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

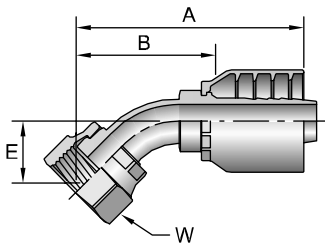
Use with hoses: F42

1J770

Female Seal-Lok® - Swivel - 45° Elbow

ISO 12151-1 - SWE45

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J770-10-10	5/8	1x14	5/8	3.08	78	0.63	16	1-1/8	1.83	46



view on web page

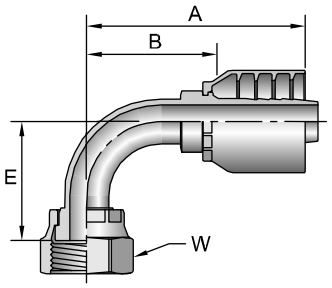
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J970

Female Seal-Lok® - Swivel - 90° Elbow - Short Drop

ISO 12151-1 - SWES90

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J970-8-8	1/2	13/16x16	1/2	2.59	66	1.14	29	15/16	1.38	35
1J970-12-8	3/4	1-3/16x12	1/2	3.21	82	1.88	48	1-3/8	2.00	51



view on web page

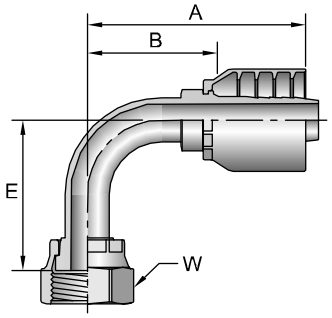
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J570

Female Seal-Lok® - Swivel - 90° Elbow - Medium Drop

ISO 12151-1 - SWEM90

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E Inch	E mm	W inch	B inch	B mm
1J570-10-10	5/8	1x14	5/8	2.88	73	1.85	47	1-1/8	1.63	41



view on web page

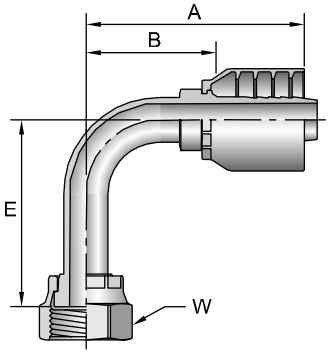
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J170

Female Seal-Lok® - Swivel - 90° Elbow - Long Drop

ISO 12151-1 - SWEL90

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E Inch	E mm	W inch	B inch	B mm
1J170-10-10	5/8	1x14	5/8	2.88	73	2.76	70	1-1/8	1.63	41



view on web page

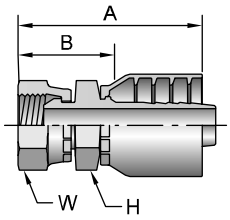
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Use with hoses: F42

1GU70

Female BSP Parallel Pipe - Swivel - (60˚ Cone)



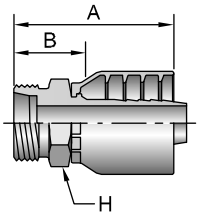
view on web page

# Part Number	Thread Inch	Hose I.D. inch	A inch	A mm	H mm	W inch	B inch	B mm
1GU70-8-8	1/2x14	1/2	2.82	72	27	NA	1.61	41

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1FG70

Male French Gaz Series - Rigid - (24˚ Cone)



view on web page

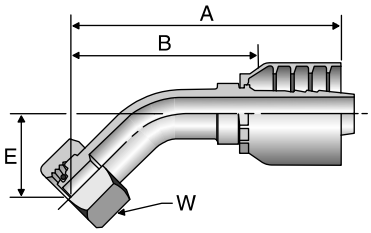
# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	H inch	H mm	B inch	B mm
1FG70-21-10	21	M30x1,5	5/8	2.87	73	1.18	30	1.62	41

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10C70

Female Metric S - Swivel - 45˚ Elbow - (24˚ Cone with O-Ring)

ISO 12151-2 - SWE45



view on web page

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
10C70-12-6	12	M20x1,5	3/8	2.72	69	0.79	20	24	1.57	40
10C70-16-8	16	M24x1,5	1/2	3.27	83	0.94	24	30	1.89	48
10C70-20-10	20	M30x2	5/8	3.58	91	0.98	25	36	2.05	52

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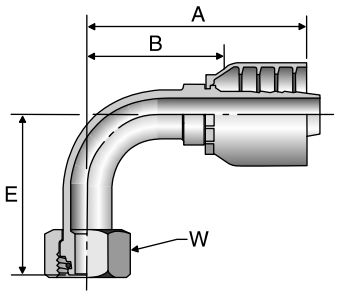
11C70

Female Metric S - Swivel - 90˚ Elbow - (24˚ Cone with O-Ring)

ISO 12151-2 - SWE

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
11C70-12-6	12	M20X1,5	3/8	2.64	67	1.46	37	24	1.50	38
11C70-20-10	20	M30X2	5/8	3.11	79	1.89	48	36	1.57	40



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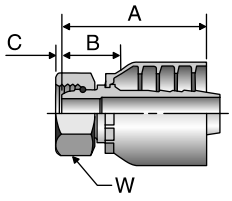
19270

Female BSP Parallel Pipe - Swivel - (60˚ Cone)

ISO 228-1

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm
19270-8-8	1/2x14	1/2	2.24	57	0.28	7	27	0.87	22
19270-10-10	5/8x14	5/8	2.24	57	0.35	9	30	0.83	21
19270-12-10	3/4x14	5/8	2.40	61	0.35	9	32	0.87	22



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

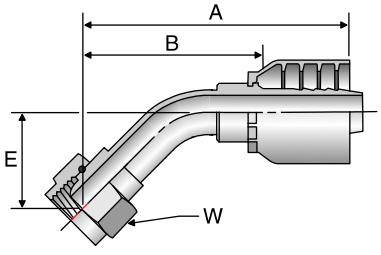
view on web page

1B170

Female BSP Parallel pipe - Swivel- 45˚ Elbow - (60˚ Cone)

ISO 228-1

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1B170-8-8	1/2x14	1/2	3.11	79	0.79	20	27	1.77	45



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

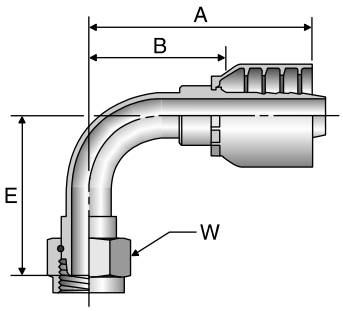
view on web page

Use with hoses: F42

1B270

Female BSP Parallel Pipe - Swivel - 90° Elbow - (60° Cone)

ISO 228-1



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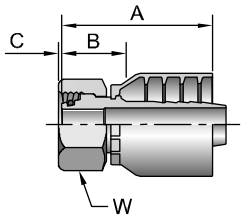
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1B270-8-8	1/2x14	1/2	2.76	70	1.54	39	27	1.38	35
1B270-10-10	5/8x14	5/8	3.07	78	1.81	46	30	1.61	41
1B270-12-10	3/4x14	5/8	3.19	81	1.65	42	32	1.61	41

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1C970

Female Metric S - Swivel - (24° Cone with O-Ring)



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# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm
1C970-12-6	12	M20x1,5	3/8	2.03	52	0.03	1	24	1.13	29
1C970-16-8	16	M24x1,5	1/2	2.31	59	0.09	2	30	1.10	28
1C970-20-10	20	M30x2	5/8	2.51	64	0.05	1	36	1.26	32

When measuring overall length to end of nut, B + C dimensions must be used to calculate cut-off allowance.

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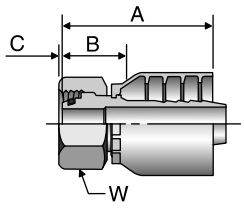
1CA70

Female Metric L - Swivel - (24° Cone with O-Ring)

ISO 12151-2 - SWS



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# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm
1CA70-12-6	12	M18x1,5	3/8	2.09	53	0.04	1	22	0.94	24
1CA70-15-8	15	M22x1,5	1/2	2.09	62	0.07	2	22	0.94	27
1CA70-18-10	18	M26x1,5	5/8	2.44	62	0.02	0.5	32	1.02	26

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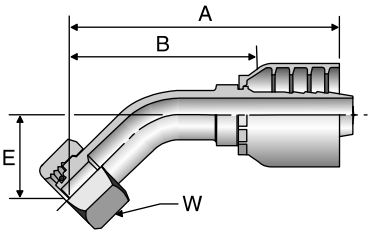
1CE70

Female Metric L - Swivel - 45° Elbow - (24° Cone with O-Ring)

ISO 12151-2 - SWE45

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1CE70-18-10	18	M26x1,5	5/8	3.58	91	0.98	25	32	2.05	52



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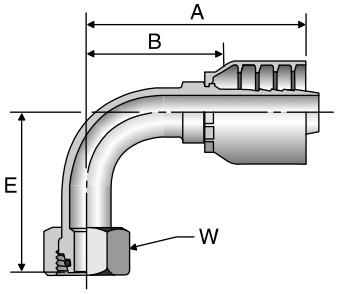
1CF70

Female Metric L - Swivel - 90° Elbow - (24° Cone with O-Ring)

ISO 12151-2 - SWE

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1CF70-15-8	15	M22x1,5	1/2	2.91	74	1.77	45	27	1.54	39
1CF70-18-10	18	M26x1,5	5/8	3.11	79	1.93	49	32	1.65	42



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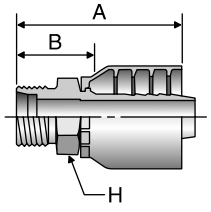
1D270

Male Metric S - Rigid - (24° Cone)

ISO 12151-2

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1D270-16-8	16	M24x1,5	1/2	2.44	62	24	1.10	28
1D270-20-10	20	M30x2	5/8	2.95	75	30	1.26	32



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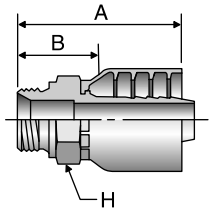
1D970

Male BSP Parellel Pipe - Rigid - (60° Cone)

ISO 228-1

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1D970-8-8	1/2x14	1/2	2.44	62	27	1.10	28



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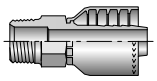
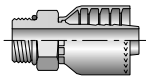
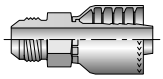
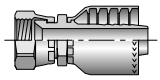
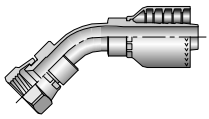
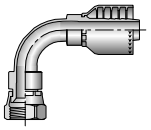
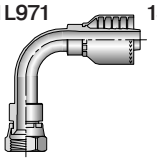
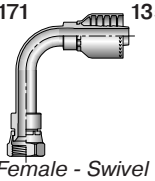
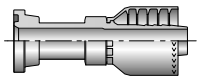
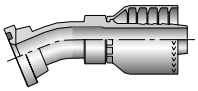
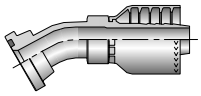
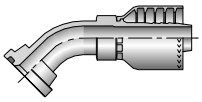
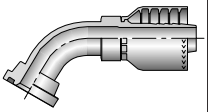
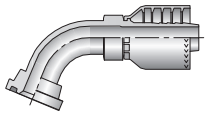
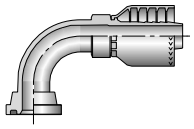
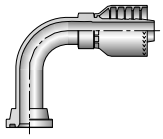
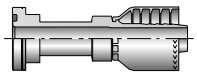
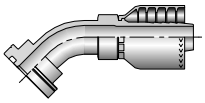
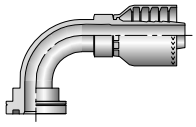
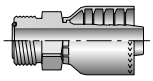
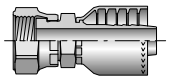
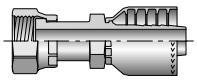
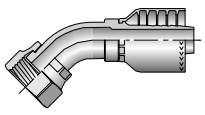
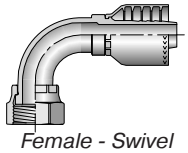
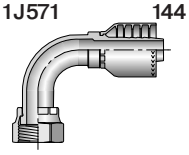
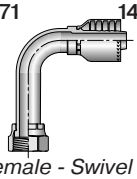
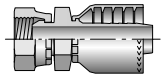
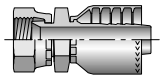
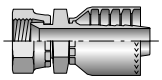
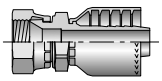
Use with hoses: F42

71 Series Fittings

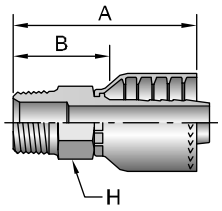
NPTF Pipe	10171 133  *Male - Rigid*	**SAE**	10571 133  *Male - Rigid*	**JIC**	10371 133  *Male - Rigid*
10671 134  *Female - Swivel*	13771 134  *Female - Swivel 45˚ Elbow - Short*	13971 135  *Female - Swivel 90˚ Elbow - Short*	1L971 135  *Female - Swivel 90˚ Elbow - Medium*	14171 135  *Female - Swivel 90˚ Elbow - Long*	**Code 61 Flange**
11571 136  *Flange*	11671 136  *22-1/2˚ Elbow*	12671 137  *30˚ Elbow*	11771 137  *45˚ Elbow*	12771 138  *60˚ Elbow*	11871 138  *67-1/2˚ Elbow*
11971 139  *90˚ Elbow*	18971 140  *90˚ Elbow-Long*	**Code 62 Flange**	16A71 140  *Flange*	16F71 141  *45˚ Elbow*	16N71 141  *90˚ Elbow*
Seal-Lok® (O-Ring Face Seal)	1J071 141  *Male - Rigid*	1JC71 142  *Female - Swivel Short*	1JS71 142  *Female - Swivel Long*	1J771 143  *Female - Swivel 45˚ Elbow*	1J971 143  *Female - Swivel 90˚ Elbow - Short*
1J571 144  *Female - Swivel 90˚ Elbow - Medium*	1J171 144  *Female - Swivel 90˚ Elbow - Long*	**BSP**	1GU71 145  *Female - Swivel*	1FU71 145  *Female - Swivel*	**Metric**
1MU71 145  *Female - Swivel*	1XU71 146  *Female - Swivel*				

Use with hoses: 722TC, 774

10171

Male NPTF Pipe - Rigid

# Part Number	Thread inch	Hose I.D inch	A inch	A mm	H inch	B inch	B mm
10171-6-6	3/8x18	3/8	2.36	60	3/4	1.47	37
10171-8-8	1/2x14	1/2	2.82	72	7/8	1.63	41
10171-12-8	3/4x14	1/2	2.67	68	1-1/16	1.47	37
10171-12-12	3/4x14	3/4	3.08	78	1-1/16	1.71	43
10171-16-12	1x11-1/2	3/4	3.08	78	1-3/8	1.72	44
10171-16-16	1x11-1/2	1	3.63	92	1-3/8	2.04	52
10171-20-16	1-1/4x11-1/2	1	3.49	89	1-11/16	1.90	48
10171-20-20	1-1/4x11-1/2	1-1/4	4.06	103	1-3/4	2.39	61
10171-24-24	1-1/2x11-1/2	1-1/2	4.32	110	2	2.19	56
10171-32-32	2x11-1/2	2	4.72	118	2-1/2	2.52	64



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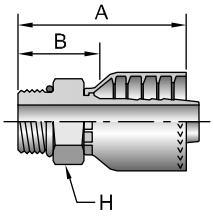
10571

Male SAE Straight Thread with O-Ring - Rigid

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10571-8-8	1/2	3/4x16	1/2	2.44	62	7/8	1.25	32
10571-12-12	3/4	1-1/16x12	3/4	2.79	71	1-1/4	1.43	36
10571-16-16	1	1-5/16x12	1	3.42	87	1-1/2	1.77	45
10571-20-20	1-1/4	1-5/8x12	1-1/4	3.67	93	1-7/8	2.00	51



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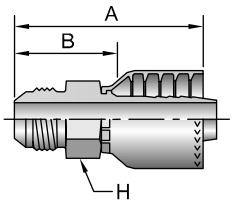
10371

Male JIC 37˚ - Rigid

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
10371-6-6	3/8	9/16x18	3/8	2.44	62	3/4	1.55	39
10371-8-6	1/2	3/4x16	3/8	2.29	58	7/8	1.40	36
10371-8-8	1/2	3/4x16	1/2	2.66	68	7/8	1.41	36
10371-10-8	5/8	7/8x14	1/2	2.60	66	15/16	1.41	36
10371-10-10	5/8	7/8x14	5/8	2.93	74	15/16	1.69	43
10371-12-12	3/4	1-1/16x12	3/4	3.17	80	1-1/8	1.81	46
10371-14-12	7/8	1-3/16x12	3/4	3.09	78	1-1/4	1.73	44
10371-16-12	1	1-5/16x12	3/4	3.02	77	1-3/8	1.66	42
10371-16-16	1	1-5/16x12	1	3.68	93	1-3/8	2.03	52
10371-20-16	1-1/4	1-5/8x12	1	3.43	87	1-7/8	1.84	47
10371-20-20	1-1/4	1-5/8x12	1-1/4	3.94	100	1-7/8	2.27	58



view on web page

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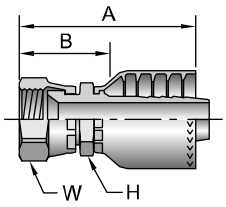
Use with hoses: 722TC, 774

10671

Female JIC 37˚ - Swivel



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm	Additional Material Stainless Steel (C)
10671-6-6	3/8	9/16x18	3/8	2.28	58	11/16	11/16	1.39	35	
10671-8-6	1/2	3/4x16	3/8	2.47	63	11/16	7/8	1.58	40	
10671-8-8	1/2	3/4x16	1/2	2.61	66	13/16	7/8	1.41	36	
10671-10-8	5/8	7/8x14	1/2	2.84	72	7/8	1	1.64	42	
10671-10-10	5/8	7/8x14	5/8	2.83	72	15/16	1	1.58	40	
10671-10-12	5/8	7/8x14	3/4	2.92	74	1-1/16	1	1.54	39	
10671-12-8	3/4	1-1/16x12	1/2	2.75	70	1-1/16	1-1/4	1.58	40	
10671-12-12	3/4	1-1/16x12	3/4	2.96	75	1-1/16	1-1/4	1.60	41	•
10671-12-16	3/4	1-1/16x12	1	3.37	86	1-3/8	1-1/4	1.67	42	
10671-16-12	1	1-5/16x12	3/4	3.28	83	1-1/4	1-1/2	1.92	49	
10671-16-16	1	1-5/16x12	1	3.60	91	1-3/8	1-1/2	2.01	51	•
10671-20-16	1-1/4	1-5/8x12	1	3.80	97	1-5/8	2	2.21	56	
10671-20-20	1-1/4	1-5/8x12	1-1/4	3.92	100	1-7/8	2	2.25	57	
10671-24-20	1-1/2	1-7/8x12	1-1/4	4.10	104	2-1/8	2-1/4	2.43	62	
10671-24-24	1-1/2	1-7/8x12	1-1/2	4.69	119	2-1/8	2-1/4	2.50	64	•
10671-32-32	2	2-1/2x12	2	5.39	137	2-1/2	2-7/8	3.19	81	•

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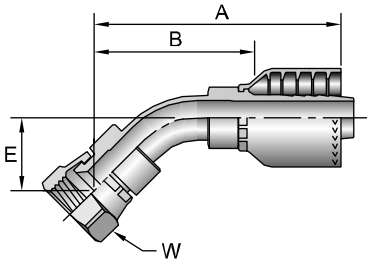
13771

Female JIC 37˚ - Swivel - 45˚ Elbow - Short Drop



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
13771-6-6	3/8	9/16x18	3/8	2.34	59.0	0.43	11	11/16	1.44	37.0
13771-8-8	1/2	3/4x16	1/2	3.20	81.2	0.59	15	7/8	1.99	50.6
13771-10-8	5/8	7/8x14	1/2	2.93	74.0	0.63	16	1	1.72	44.0
13771-10-10	5/8	7/8x14	5/8	3.08	78.0	0.63	16	1	1.83	46.0
13771-12-12	3/4	1-1/16x12	3/4	3.64	92.0	0.83	21	1-1/4	2.26	57.0
13771-16-16	1	1-5/16x12	1	4.20	107.0	0.90	23	1-1/2	2.61	66.0
13771-20-20	1-1/4	1-5/8x12	1-1/4	5.22	133.0	1.69	43	2	3.53	90.0

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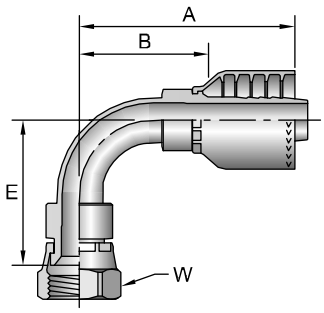
Stainless steel fittings must be assembled with Karrykrimp 2, PHastkrimp, Superkrimp or Parkrimp 2. See CrimpSource for more information.

Use with hoses: 722TC, 774

13971

Female JIC 37˚ - Swivel - 90˚ Elbow - Short Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
13971-6-6	3/8	9/16x18	3/8	2.21	56	0.91	23	11/16	1.31	33
13971-8-8	1/2	3/4x16	1/2	2.62	67	1.14	29	7/8	1.41	36
13971-10-8	5/8	7/8x14	1/2	2.74	70	1.26	32	1	1.53	39
13971-10-10	5/8	7/8x14	5/8	2.88	73	1.26	32	1	1.63	41
13971-12-12	3/4	1-1/16x12	3/4	3.50	89	1.89	48	1-1/4	2.11	54
13971-16-16	1	1-5/16x12	1	4.36	111	2.20	56	1-1/2	2.58	66
13971-20-20	1-1/4	1-5/8x12	1-1/4	4.78	121	3.33	85	2	3.11	79
13971-24-24	1-1/2	1-7/8x12	1-1/2	6.33	161	3.98	101	2-1/4	4.14	105



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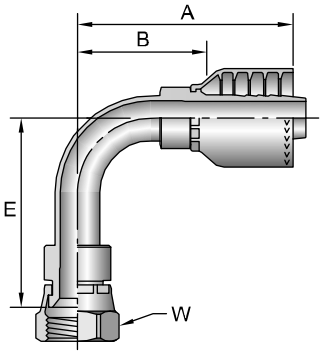
1L971

Female JIC 37˚ - Swivel - 90˚ Elbow - Medium Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1L971-10-8	5/8	7/8x14	1/2	3.24	82	1.75	44	1	2.04	52



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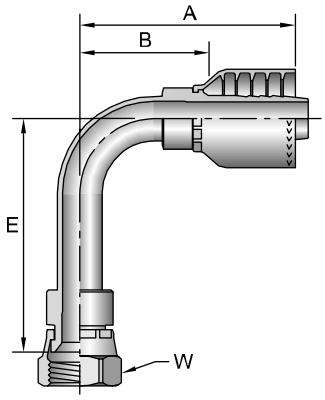
14171

Female JIC 37˚ - Swivel - 90˚ Elbow - Long Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
14171-6-6	3/8	9/16x18	3/8	2.34	59	2.13	54	11/16	1.44	37
14171-8-8	1/2	3/4x16	1/2	2.58	66	2.52	64	7/8	1.37	35
14171-12-12	3/4	1-1/16x14	3/4	3.49	89	3.78	96	1-1/4	2.11	54
14171-16-16	1	1-5/16x12	1	4.36	111	4.32	110	1-1/2	2.58	66



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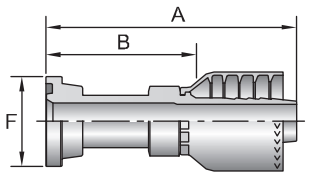
Use with hoses: 722TC, 774

11571

SAE Code 61 Flange Head

ISO 12151-3 - S - L



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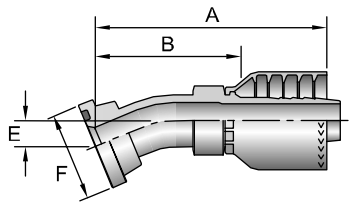
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm
11571-8-8	1/2	1/2	3.48	88	1-3/16	2.27	58
11571-10-10	5/8	5/8	3.69	93,7	1-11/32	2.44	62,0
11571-12-8	3/4	1/2	2.46	62,5	1-1/2	1.26	32,0
11571-12-12	3/4	3/4	3.86	98	1-1/2	2.48	63
11571-16-12	1	3/4	2.74	70	1-3/4	1.36	35
11571-16-16	1	1	4.32	110	1-3/4	2.55	65
11571-20-12	1-1/4	3/4	3.90	99	2	2.54	65
11571-20-16	1-1/4	1	3.27	83	2	1.58	40
11571-20-20	1-1/4	1-1/4	4.70	119	2	3.01	76
11571-20-24	1-1/4	1-1/2	5.41	137	2	3.22	82
11571-24-16	1-1/2	1	3.41	86,6	2-3/8	1.63	41,4
11571-24-20	1-1/2	1-1/4	3.48	104	2-3/8	1.36	61
11571-24-24	1-1/2	1-1/2	5.46	139	2-3/8	3.27	83
11571-32-24	2	1-1/2	4.01	102	2-13/16	1.82	46
11571-32-32	2	2	5.65	144	2-13/16	3.45	88
11571-40-32	2-1/2	2	4.51	115	3-5/16	2.31	59

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11671

SAE Code 61 Flange Head - 22-1/2˚ Elbow

ISO 12151-3 - E22M - L



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11671-12-12	3/4	3/4	3.90	99	0.44	11	1-1/2	2.54	65
11671-16-12	1	3/4	3.89	99	0.44	11	1-3/4	2.53	64
11671-16-16	1	1	4.26	108	0.44	11	1-3/4	2.67	68
11671-20-20	1-1/4	1-1/4	4.67	119	0.50	13	2	3.00	76
11671-24-20	1-1/2	1-1/4	4.68	119	0.53	13	2-3/8	3.01	76
11671-24-24	1-1/2	1-1/2	5.88	149	0.63	16	2-3/8	3.69	94
11671-32-32	2	2	7.37	187	0.88	22	2-13/16	5.22	133

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

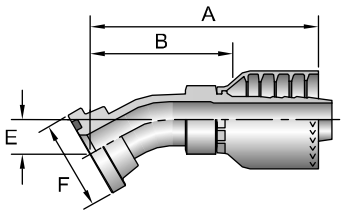
Use with hoses: 722TC, 774

12671

SAE Code 61 Flange Head - 30˚ Elbow

ISO 12151-3 - E30S - L (1 Piece: ISO 12151-3 - E30M - L)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
12671-16-16	1	1	4.46	113	0.62	16	1-3/4	2.68	68
12671-24-24	1-1/2	1-1/2	6.01	153	0.88	22	2-3/8	3.82	97
12671-32-32	2	2	7.60	193	1.25	32	2-13/16	5.40	137



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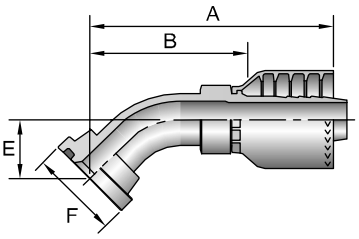
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11771

SAE Code 61 Flange Head - 45˚ Elbow

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11771-12-8	3/4	1/2	3.27	83	0.84	21	1-1/2	2.07	53
11771-12-12	3/4	3/4	3.85	98	1.02	26	1-1/2	2.47	63
11771-16-12	1	3/4	3.85	98	1.02	26	1-3/4	2.47	63
11771-16-16	1	1	4.84	123	1.26	32	1-3/4	3.06	78
11771-20-16	1-1/4	1	4.84	123	1.02	26	2	3.06	78
11771-20-20	1-1/4	1-1/4	5.61	142	1.50	38	2	3.92	100
11771-24-20	1-1/2	1-1/4	5.55	141	1.50	38	2-3/8	3.86	98
11771-24-24	1-1/2	1-1/2	6.22	158	1.41	36	2-3/8	4.03	102
11771-32-24	2	1-1/2	6.19	157	1.41	36	2-13/16	4.00	102
11771-32-32	2	2	7.94	202	2.03	52	2-13/16	5.74	146



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

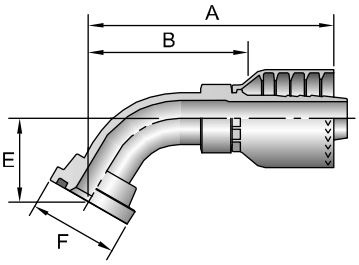
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 722TC, 774

12771

SAE Code 61 Flange Head - 60˚ Elbow

ISO 12151-3 - E60S - L (1 Piece: ISO 12151-3 - E60M - L)



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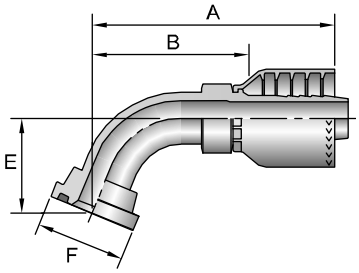
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
12771-12-12	3/4	3/4	4.16	106	1.43	36	1-1/2	2.78	71
12771-16-16	1	1	4.74	120	1.49	38	1-3/4	3.36	85
12771-20-20	1-1/4	1-1/4	5.10	130	1.69	43	2	3.41	87
12771-24-24	1-1/2	1-1/2	6.25	159	2.03	52	2-3/8	4.06	103
12771-32-32	2	2	7.93	201	2.88	73	2-13/16	5.73	146

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11871

SAE Code 61 Flange Head - 67-1/2˚ Elbow

ISO 12151-3 - E67S - L (1 Piece: ISO 12151-3 - E67M - L)



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11871-12-12	3/4	3/4	4.12	105	1.62	41	1-1/2	2.74	70
11871-16-16	1	1	4.76	121	1.75	44	1-3/4	2.98	76
11871-24-20	1-1/2	1-1/4	5.07	129	1.95	50	2-3/8	3.38	86
11871-24-24	1-1/2	1-1/2	6.20	157	2.31	59	2-3/8	4.01	102
11871-32-32	2	2	7.89	200	3.31	84	2-13/16	5.69	145

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 722TC, 774

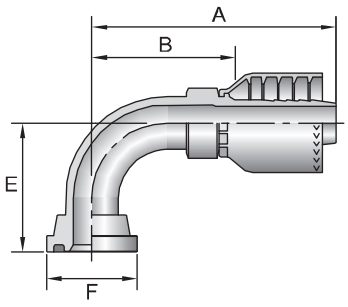
11971

SAE Code 61 Flange Head - 90˚ Elbow

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11971-8-8	1/2	1/2	2.93	74	1.6	41	1-3/16	1.72	44
11971-12-8	3/4	1/2	2.93	74	1.66	42	1-1/2	1.72	44
11971-12-12	3/4	3/4	3.48	88	2.28	58	1-1/2	2.10	53
11971-16-12	1	3/4	3.52	89	2.28	58	1-3/4	2.14	54
11971-16-16	1	1	4.36	111	2.76	70	1-3/4	2.58	66
11971-16-20	1	1-1/4	4.53	115	2.39	61	1-3/4	2.75	70
11971-20-12	1-1/4	3/4	3.81	97	2.13	54	2	2.45	62
11971-20-16	1-1/4	1	4.33	110	2.76	70	2	2.55	65
11971-20-20	1-1/4	1-1/4	5.12	130	3.54	90	2	3.43	87
11971-20-24	1-1/4	1-1/2	6.33	161	3.00	76	2	4.14	105
11971-24-16	1-1/2	1	4.53	115	2.39	61	2-3/8	2.75	70
11971-24-20	1-1/2	1-1/4	5.09	129	3.54	90	2-3/8	3.40	86
11971-24-24	1-1/2	1-1/2	6.34	161	4.09	104	2-3/8	4.15	105
11971-32-24	2	1-1/2	6.98	148	4.09	79	2-13/16	4.36	93
11971-32-32	2	2	7.75	197	5.43	138	2-13/16	5.55	141

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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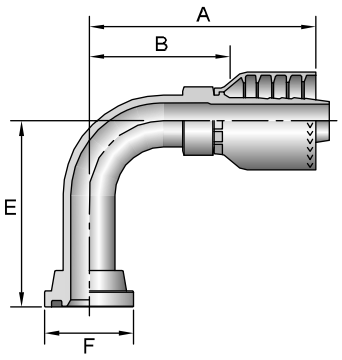
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 722TC, 774

18971

SAE Code 61 Flange Head - 90˚ Elbow - Long Drop



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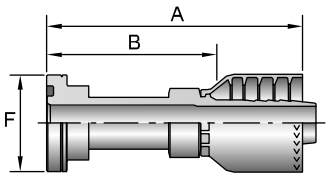
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
18971-12-12	3/4	3/4	3.49	89	3.03	77	1-1/2	2.11	54
18971-16-16	1	1	4.52	115	4.60	117	1-3/4	2.74	70
18971-20-16	1-1/4	1	4.53	115	4.60	117	2	2.75	70

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

16A71

SAE Code 62 Flange Head

ISO 12151-3 - S - S



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm
16A71-12-12	3/4	3/4	4.31	109	1-5/8	2.93	74
16A71-16-12	1	3/4	3.10	78,7	1-7/8	1.72	43,7
16A71-16-16	1	1	4.89	124	1-7/8	3.11	79
16A71-20-16	1-1/4	1	3.69	93,7	2-1/8	1.91	48,5
16A71-20-20	1-1/4	1-1/4	5.01	127,3	2-1/8	3.32	84,3
16A71-24-24	1-1/2	1-1/2	6.34	161,0	2-1/2	4.15	105,4
16A71-32-32	2	2	7.16	182	3-1/8	4.96	126

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

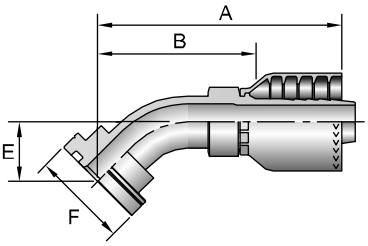
Use with hoses: 722TC, 774

16F71

SAE Code 62 Flange Head - 45˚ Elbow

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - S)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
16F71-12-12	3/4	3/4	3.82	97	1.03	26	1-5/8	2.44	62
16F71-16-16	1	1	4.74	120,3	1.26	32	1-7/8	2.96	75,2
16F71-20-16	1-1/4	1	4.61	117	1.06	27	2-1/8	3.02	77
16F71-20-20	1-1/4	1-1/4	5.07	129	1.19	30	2-1/8	3.38	86
16F71-24-24	1-1/2	1-1/2	6.21	158	1.44	37	2-1/2	4.02	102



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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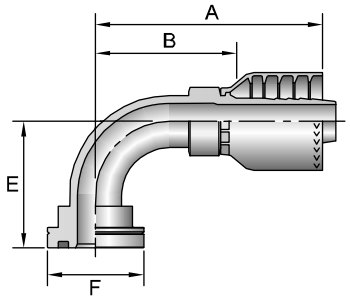
16N71

SAE Code 62 Flange Head - 90˚ Elbow

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - S)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
16N71-12-12	3/4	3/4	3.51	89	2.28	58	1-5/8	2.13	54
16N71-16-12	1	3/4	3.49	89	2.29	58	1-7/8	2.11	54
16N71-16-16	1	1	4.36	111	2.76	70	1-7/8	2.58	66
16N71-20-16	1-1/4	1	4.36	111	2.76	70	2-1/8	2.58	66
16N71-20-20	1-1/4	1-1/4	5.09	129	3.54	90	2-1/8	3.40	86
16N71-24-24	1-1/2	1-1/2	6.73	171	4.09	104	2-1/2	4.54	115



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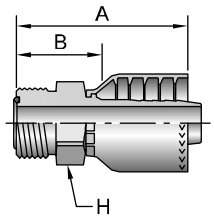
1J071

Male Seal-Lok® - Rigid - (with O-Ring)

SAE J516 (Apr2016)

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
1J071-8-8	1/2	13/16x16	1/2	2.40	61	7/8	1.20	30
1J071-10-8	5/8	1x14	1/2	2.61	66	1-1/16	1.41	36
1J071-10-10	5/8	1x14	5/8	2.69	68	1-1/16	1.44	37
1J071-12-10	3/4	1-3/16x12	5/8	2.79	71	1-1/4	1.55	39
1J071-12-12	3/4	1-3/16x12	3/4	2.87	73	1-1/4	1.51	38
1J071-16-12	1	1-7/16x12	3/4	2.91	74	1-1/2	1.53	39
1J071-16-16	1	1-7/16x12	1	3.27	83	1-1/2	1.68	43
1J071-20-20	1-1/4	1-11/16x12	1-1/4	3.31	84	1-3/4	1.64	42



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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See Accessories Section for O-Rings.

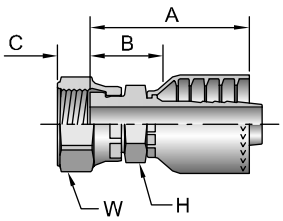
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 722TC, 774

1JC71

Female Seal-Lok® - Swivel - Short

ISO 12151-1 - SWSA



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	C inch	C mm	H inch	W inch	B inch	B mm
1JC71-8-8	1/2	13/16x16	1/2	2.22	56	0.43	11	13/16	15/16	1.01	26
1JC71-10-10	5/8	1x14	5/8	2.40	61	0.48	12	15/16	1-1/8	1.15	29
1JC71-12-12	3/4	1-3/16x12	3/4	2.68	68	0.55	14	1-1/8	1-3/8	1.30	33
1JC71-16-16	1	1-7/16x12	1	3.22	82	0.56	14	1-3/8	1-5/8	1.44	37
1JC71-20-16	1-1/4	1-11/16x12	1	3.16	80	0.59	15	1-5/8	1-7/8	1.38	35

When measuring overall length to end of nut, B+C dimensions must be used to calculate cut-off allowance.

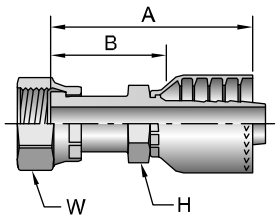
See Accessories Section for O-Rings and Flange Kits.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1JS71

Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
1JS71-6-6	3/8	11/16x16	3/8	2.80	58	11/16	13/16	1.38	35
1JS71-6-8	3/8	11/16x16	1/2	2.50	64	13/16	13/16	1.29	33
1JS71-8-8	1/2	13/16x16	1/2	2.64	67	13/16	15/16	1.44	37
1JS71-10-8	5/8	1x14	1/2	2.89	23	13/16	1-1/8	1.69	43
1JS71-10-10	5/8	1x14	5/8	3.00	76	15/16	1-1/8	1.75	44
1JS71-10-12	5/8	1x14	3/4	3.08	78	1-1/16	1-1/8	1.70	43
1JS71-12-10	3/4	1-3/16x12	5/8	3.10	79	1-1/8	1-3/8	1.85	47
1JS71-12-12	3/4	1-3/16x12	3/4	3.31	84	1-1/16	1-3/8	1.93	49
1JS71-16-12	1	1-7/16x12	3/4	3.37	86	1-5/16	1-5/8	1.99	51
1JS71-16-16	1	1-7/16x12	1	3.70	94	1-5/16	1-5/8	1.92	49
1JS71-20-16	1-1/4	1-11/16x12	1	3.64	92	1-3/4	1-7/8	1.94	49
1JS71-20-20	1-1/4	1-11/16x12	1-1/4	3.77	96	1-3/4	1-7/8	2.08	53
1JS71-24-24	1-1/2	2x12	1-1/2	4.51	114,6	2	2-1/4	2.32	58,9

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

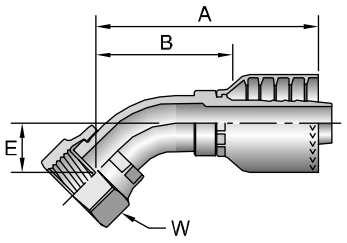
Use with hoses: 722TC, 774

1J771

Female Seal-Lok® - Swivel - 45˚ Elbow

ISO 12151-1 - SWE45

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J771-6-6	3/8	11/16x16	3/8	2.34	59.0	0.43	11	13/16	1.44	37.0
1J771-8-8	1/2	13/16x16	1/2	3.20	81.2	0.59	15	15/16	1.99	50.6
1J771-10-8	5/8	1x14	1/2	2.93	74.0	0.63	16	1-1/8	1.72	44.0
1J771-10-10	5/8	1x14	5/8	3.08	78.0	0.63	16	1-1/8	1.83	46.0
1J771-12-12	3/4	1-3/16x12	3/4	3.63	92.0	0.83	21	1-3/8	2.25	57.0
1J771-16-16	1	1-7/16x12	1	4.46	113.0	0.94	24	1-5/8	2.68	68.0
1J771-20-20	1-1/4	1-11/16x12	1-1/4	4.75	121.0	1.00	25	1-7/8	3.08	78.0
1J771-24-24	1-1/2	2x12	1-1/2	5.43	138.0	1.07	27	2-1/4	3.23	82.0



view on web page

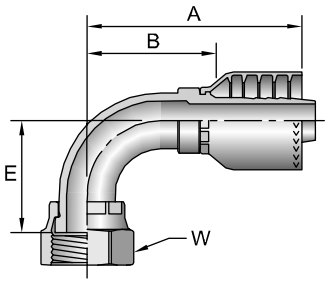
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J971

Female Seal-Lok® - Swivel - 90˚ Elbow - Short Drop

ISO 12151-1 - SWES90

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J971-6-6	3/8	11/16x16	3/8	2.21	56	0.91	23	13/16	1.31	33
1J971-8-8	1/2	13/16x16	1/2	2.59	66	1.14	29	15/16	1.38	35
1J971-10-8	5/8	1x14	1/2	2.74	70	1.26	32	1-1/8	1.53	39
1J971-10-10	5/8	1x14	5/8	2.88	73	1.26	32	1-1/8	1.63	41
1J971-10-12	5/8	1x14	3/4	3.07	78	1.27	32	1-1/8	1.70	43
1J971-12-10	3/4	1-3/16x12	5/8	3.40	86	1.89	48	1-3/8	2.15	55
1J971-12-12	3/4	1-3/16x12	3/4	3.49	89	1.89	48	1-3/8	2.11	54
1J971-16-16	1	1-7/16x12	1	4.36	111	2.20	56	1-5/8	2.58	66
1J971-20-20	1-1/4	1-11/16x12	1-1/4	4.86	123	2.51	64	1-7/8	3.19	81
1J971-24-24	1-1/2	2x12	1-1/2	6.22	158	2.68	68	2-1/4	4.03	102



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

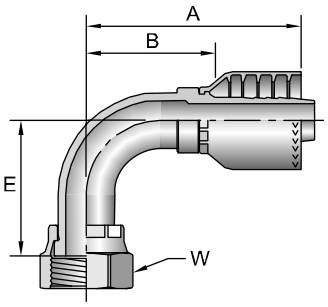
See Accessories Section for O-Rings.

Use with hoses: 722TC, 774

1J571

Female Seal-Lok® - Swivel - 90˚ Elbow - Medium Drop

ISO 12151-1 - SWEM90



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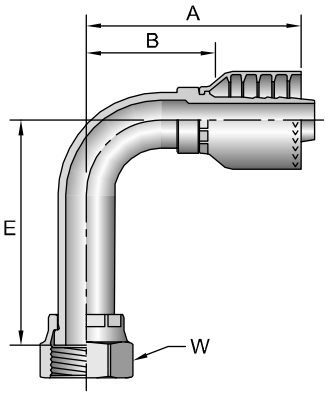
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J571-8-8	1/2	13/16x16	1/2	2.59	66	1.61	41	15/16	1.38	35
1J571-10-10	5/8	1x14	5/8	2.88	73	1.85	47	1-1/8	1.63	41
1J571-12-12	3/4	1-3/16x12	3/4	3.49	89	2.28	58	1-3/8	2.11	54

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J171

Female Seal-Lok® - Swivel - 90˚ Elbow - Long Drop

ISO 12151-1 - SWEL90



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J171-6-6	3/8	11/16x16	3/8	2.39	61	2.13	54	13/16	1.49	38
1J171-8-8	1/2	13/16x16	1/2	2.59	66	2.52	64	15/16	1.38	35
1J171-10-10	5/8	1x14	5/8	2.88	73	2.76	70	1-1/8	1.63	41
1J171-12-12	3/4	1-3/16x12	3/4	3.49	89	3.78	96	1-3/8	2.11	54
1J171-16-12	1	1-7/16x12	3/4	4.07	103	4.50	114	1-5/8	2.69	68
1J171-16-16	1	1-7/16x12	1	4.36	111	4.49	114	1-5/8	2.58	66

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

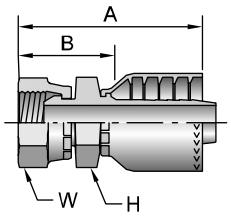
Metric S: Mates with EO "S" Series Fittings.
^^ Must be assembled with Die Part No. 83C-D20H in a Superkrimp or Parkrimp 2.
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 722TC, 774

1GU71

Female BSP Parallel Pipe - Swivel - (60˚ Cone)

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1GU71-8-8	1/2	1/2x14	1/2	2.81	71	27	27	1.61	41
1GU71-12-12	3/4	3/4x14	3/4	3.24	82	36	36	1.86	47
1GU71-16-16	1	1x11	1	3.82	97	41	41	2.04	52
1GU71-20-20	1-1/4	1-1/4x11	1-1/4	4.07	103	50	50	2.38	60
1GU71-32-32	2	2x11	2	5.17	131	70	70	2.97	75



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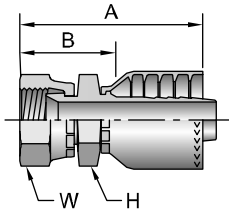
1FU71

Female BSP Parallel Pipe - Swivel - (30˚ Flare)

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1FU71-12-12	3/4x14	3/4	3.10	79	36	36	1.74	44
1FU71-16-16	1x11	1	3.52	89	41	41	1.95	49
1FU71-20-20	1-1/4x11	1-1/4	3.87	98	50	50	2.20	56



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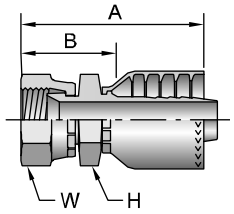
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1MU71

Female Metric - Swivel - (30˚ Flare)

# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1MU71-6-6	M18x1,5	3/8	2.45	62	24	24	1.56	40
1MU71-8-8	M22x1,5	1/2	2.83	72	27	27	1.45	37

Japanese Fittings - Female Swivel 30˚ Flare with Metric Threads. All 30˚ flared fitting sizes are available by combining 1MU71 fittings in sizes up to 1/2 with 1XU71 fittings in sizes 5/8 inch and larger.



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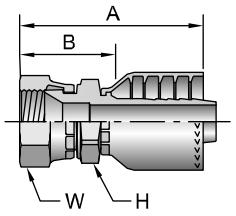
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Metric S: Mates with EO "S" Series Fittings.
^^ Must be assembled with Die Part No. 83C-D20H in a Superkrimp or Parkrimp 2.
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 722TC, 774

1XU71

Female Metric - Swivel - (30˚ Flare)



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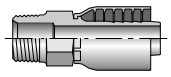
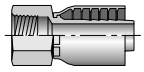
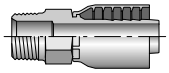
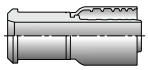
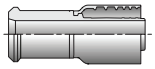
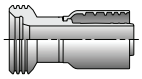
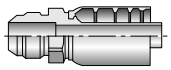
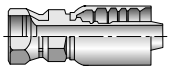
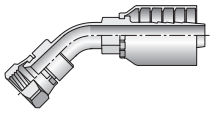
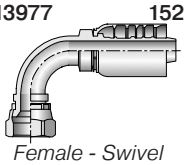
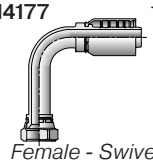
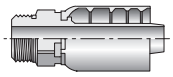
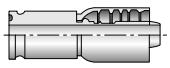
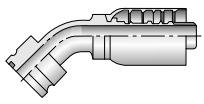
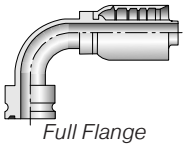
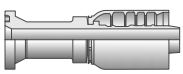
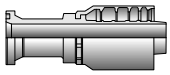
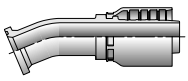
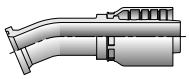
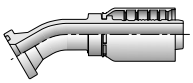
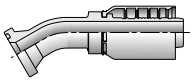
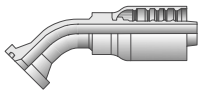
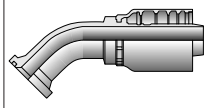
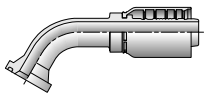
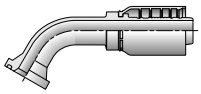
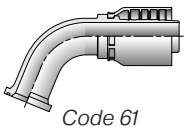
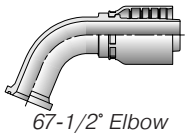
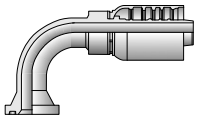
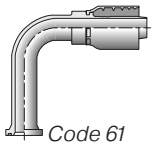
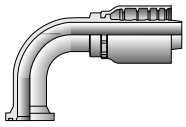
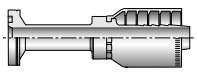
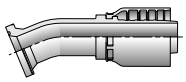
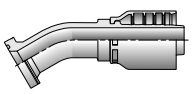
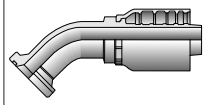
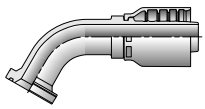
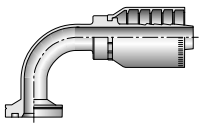
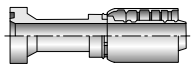
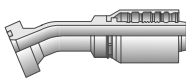
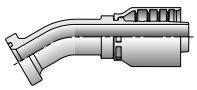
# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1XU71-10-10	M24x1,5	5/8	3.16	80	30	32	1.91	49
1XU71-12-12	M30x1,5	3/4	3.40	86	32	36	2.02	51
1XU71-16-16	M33x1,5	1	4.11	104	36	41	2.33	59

Japanese Fittings - Female Swivel 30˚ Flare with Metric Threads. All 30˚ flared fitting sizes are available by combining 1MU71 fittings in sizes up to 1/2 with 1XU71 fittings in sizes 5/8 inch and larger.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

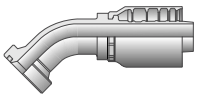
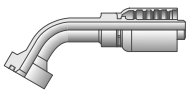
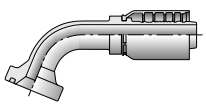
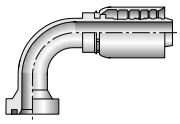
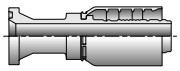
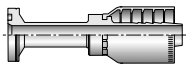
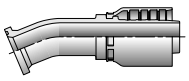
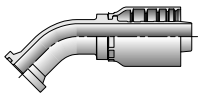
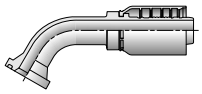
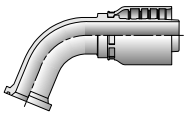
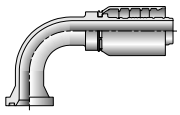
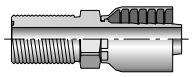
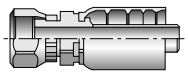
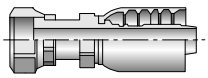
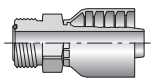
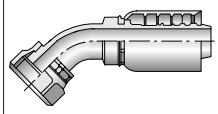
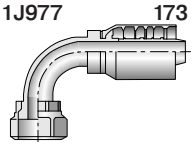
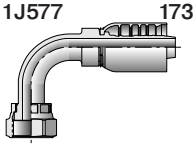
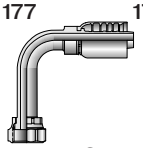
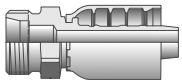
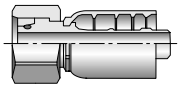
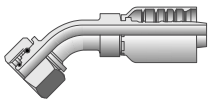
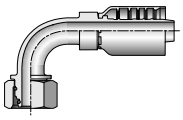
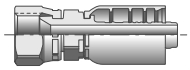
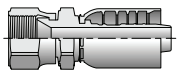
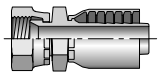
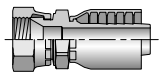
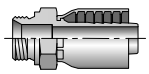
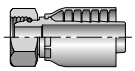
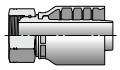
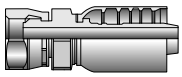
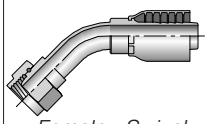
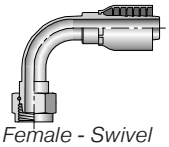
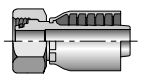
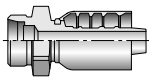
Use with hoses: 722TC, 774

77 Series Fittings

NPTF Pipe	10177 149  Male - Rigid - Straight	10277 149  Female - Rigid Straight	**API**	1AP77 149  Male - Rigid - Straight	**Hammer Union**
1HB77 150  Male - Hammer Union 90˚ Wing Nut	1HE77 150  Male - Hammer Union	1HN77 150  Female - Hammer Union	**JIC 37˚**	10377 150  Male - Rigid - Straight	10677 151  Female - Swivel Straight
13777 152  Female - Swivel 45˚ Elbow - Short	13977 152  Female - Swivel 90˚ Elbow - Short	14177 153  Female - Swivel 90˚ Elbow - Long	**Straight Thread O-Ring**	10577 153  Male - Rigid - Straight	**Full Flange**
1X577 153  Full Flange - Straight	1X777 154  Full Flange 45˚ Elbow	1X977 154  Full Flange 90˚ Elbow	**Flange Code 61**	11577 155  Code 61 - Straight	14A77 155  Straight (5,000 psi)
11677 156  Code 61 22-1/2˚ Elbow	14B77 156  22-1/2˚ Elbow (5,000 psi)	12677 156  Code 61 - 30˚ Elbow	14E77 157  30˚ Elbow (5,000 psi)	11777 157  Code 61 - 45˚ Elbow	14F77 158  45˚ Elbow (5,000 psi)
12777 158  Code 61 - 60˚ Elbow	14G77 159  60˚ Elbow (5,000 psi)	11877 159  Code 61 67-1/2˚ Elbow	14M77 160  67-1/2˚ Elbow (5,000 psi)	11977 160  Code 61 - 90˚ Elbow	18977 161  Code 61 90˚ Elbow - Long
14N77 161  90˚ Elbow (5,000 psi)	**Flange Code 62**	16A77 162  Code 62 - Straight	16B77 162  Code 62 22-1/2˚ Elbow	16E77 163  Code 62 - 30˚ **Elbow**	16F77 163  Code 62 - 45˚ Elbow
16G77 164  Code 62 - 60˚ Elbow	16N77 164  Code 62 - 90˚ Elbow	**Caterpillar® Flange**	1XA77 165  Caterpillar® - Flange	1XB77 165  Caterpillar® - Flange 22-1/2˚ Elbow	1XE77 166  Caterpillar® Flange 30˚ Elbow

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

77 Series Fittings

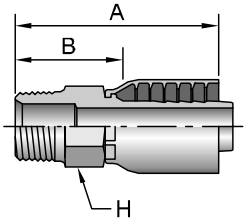
1XF77 166  *Caterpillar® - Flange 45˚ Elbow*	**1XG77** 167  *Caterpillar® - Flange 60˚ Elbow*	**1XM77** 167  *Caterpillar® Flange 67-1/2˚ Elbow*	**1XN77** 168  *Caterpillar® Flange 90˚ Elbow*	**Komatsu® Flange**	**1K577** 168  *Komatsu® Flange Straight*
1KA77 168  *Komatsu® HP Flange Straight*	**1K677** 169  *Komatsu® Flange 22-1/2˚ Elbow*	**1K777** 169  *Komatsu® Flange 45˚ Elbow*	**1K377** 169  *Komatsu® Flange 60˚ Elbow*	**1K877** 170  *Komatsu® Flange 67-1/2˚ Elbow*	**1K977** 170  *Komatsu® Flange 90˚ Elbow*
Seal-Lok®	**1JB77** 170  *Male - Bulkhead w/o Locknut*	**1JC77** 171  *Female - Swivel Straight - Short*	**1JS77** 171  *Female - Swivel Straight - Long*	**1J077** 172  *Male - Rigid w/O-Ring*	**1J777** 172  *Female - Swivel 45˚ Elbow*
1J977 173  *Female - Swivel 90˚ Elbow - Short*	**1J577** 173  *Female - Swivel 90˚ Elbow - Medium*	**1J177** 174  *Female - Swivel 90˚ Elbow - Long*	**DIN "S" Series w/O-Ring**	**1D277** 174  *Male Metric S Rigid - 24˚ Cone*	**1C977** 175  *Female - Swivel Straight*
10C77 175  *Female Metric S Swivel - 45˚ Elbow*	**11C77** 176  *Female - Swivel 90˚ Elbow*	**BSP**	**1FU77** 176  *Female - Swivel Straight - 30˚ Flare*	**1KU77** 177  *Female - Metric Swivel - 30˚ Flare*	**1MU77** 177  *Female - Metric Swivel - 30˚ Flare*
1XU77 177  *Female - Swivel 30˚ Flare*	**1D977** 178  *Male - Rigid Straight - 60˚ Cone*	**19277** 178  *Female - Swivel Straight - 60˚ Cone*	**1EA77** 178  *Female - Swivel Straight - 60˚ Cone*	**1GU77** 179  *Female - Swivel Straight - 60˚ Cone*	**1B177** 179  *Female - Swivel 45˚ Elbow - 60˚ Cone*
1B277 180  *Female - Swivel 90˚ Elbow - 60˚ Cone*	**24˚ Cone**	**1CA77** 180  *Female - Swivel Straight - 24˚ Cone*	**1ZM77** 180  *Male 24˚ Cone Rigid - Straight*		

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

10177

Male NPTF Pipe - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm	Additional Material Stainless Steel (C)
10177-6-8	3/8x18	1/2	2.51	63,9	22	1.29	32,9	
10177-8-8	1/2x14	1/2	2.72	69,2	22	1.50	38,2	•
10177-8-12	1/2x14	3/4	3.43	87,1	30	1.79	45,5	
10177-12-12	3/4x14	3/4	3.43	87,1	30	1.79	45,5	•
10177-16-16	1x11-1/2	1	4.04	102,6	36	2.09	53,1	•
10177-20-16	1-1/4x11-1/2	1	4.34	110,2	46	2.39	60,7	
10177-20-20	1-1/4x11-1/2	1-1/4	4.57	116,1	46	2.30	58,4	•
10177-24-20	1-1/2x11-1/2	1-1/4	4.76	120,9	50	2.49	63,2	
10177-24-24	1-1/2x11-1/2	1-1/2	4.89	124,2	50	2.50	63,5	•
10177-32-32*	2x11-1/2	2	5.64	143,1	65	2.88	73,2	•



view on web page

All sizes of 10177 fittings are rated at 5,000 psi working pressure.

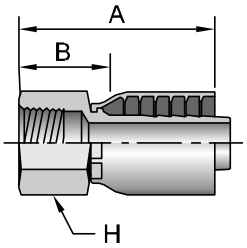
***This specific size in stainless is not able to be crimped in any Parkrimp machine.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10277

Female NPTF Pipe - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
10277-12-12	3/4x14	3/4	3.09	78,4	32	1.45	36,9



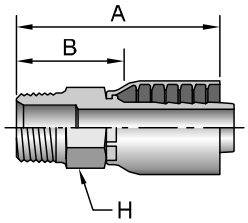
view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1AP77

Male API Pipe - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1AP77-24-24	1-1/2x11-1/2	1-1/2	5.16	131,1	50	2.77	70,4
1AP77-32-24	2x11-1/2	1-1/2	5.71	145,0	65	3.32	84,4
1AP77-32-32	2x11-1/2	2	6.32	160,4	65	3.56	90,4



view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

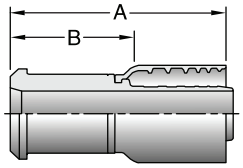
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1HB77

Male Hammer Union - 90° Wing Nut

FIG 1502



view on web page

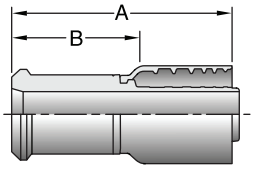
# Part Number	Hose I.D. inch	A inch	A mm	B inch	B mm
1HB77-32-32	2	7.59	192,9	4.84	123,0

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1HE77

Male Hammer Union

FIG 1502



view on web page

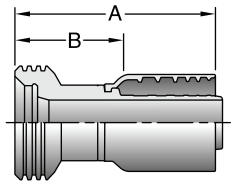
# Part Number	Hose I.D. inch	A inch	A mm	B inch	B mm
1HE77-32-32	2	7.60	192,9	4.84	123,0

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1HN77

Female Hammer Union

FIG 1502



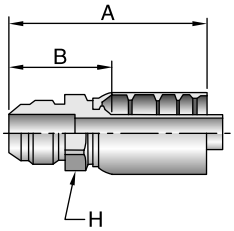
view on web page

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	B inch	B mm
1HN77-32-32	4-1/8x3	2	6.95	176,4	4.19	106,5

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10377

Male JIC 37° - Rigid



view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
10377-8-8	1/2	3/4x16	1/2	2.61	66,4	22	1.39	35,4
10377-10-8	5/8	7/8x14	1/2	2.71	68,9	24	1.49	37,9
10377-10-10	5/8	7/8x14	5/8	3.01	76,4	24	1.66	42,2
10377-12-10	3/4	1-1/16x12	5/8	3.22	81,8	30	1.87	47,5
10377-12-12	3/4	1-1/16x12	3/4	3.53	89,6	30	1.89	48,1
10377-12-16	3/4	1-1/16x12	1	3.94	100,0	36	1.99	50,6
10377-16-12	1	1-5/16x12	3/4	3.69	93,6	36	2.05	52,2
10377-16-16	1	1-5/16x12	1	3.99	101,3	36	2.04	51,8
10377-20-16	1-1/4	1-5/8x12	1	4.33	109,9	50	2.38	60,5
10377-20-20	1-1/4	1-5/8x12	1-1/4	4.66	118,4	50	2.39	60,7
10377-24-24	1-1/2	1-7/8x12	1-1/2	4.93	125,2	50	2.54	64,5
10377-32-32	2	2-1/2x12	2	5.83	148,0	65	3.07	78,0

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

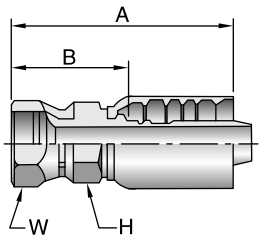
Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

10677

Female JIC 37° - Swivel

ISO 12151-5

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
10677-6-8	3/8	9/16x18	1/2	2.75	69,7	22	19	1.53	38,8
10677-6-8C	3/8	9/16x18	1/2	2.75	69,7	22	19	1.53	38,8
10677-8-8	1/2	3/4x16	1/2	2.79	71,1	22	22	1.58	40,1
10677-8-8C	1/2	3/4x16	1/2	2.79	71,1	22	22	1.58	40,1
10677-10-8	5/8	7/8x14	1/2	2.91	74,0	22	27	1.69	43,0
10677-10-10	5/8	7/8x14	5/8	3.18	80,7	24	27	1.83	46,5
10677-10-10C	5/8	7/8x14	5/8	3.18	80,7	24	27	1.83	46,5
10677-10-12	5/8	7/8x14	3/4	3.62	91,8	30	27	1.98	50,3
10677-12-8	3/4	1-1/16x12	1/2	3.17	80,4	30	32	1.95	49,5
10677-12-10	3/4	1-1/16x12	5/8	3.30	83,9	30	32	1.95	49,6
10677-12-12	3/4	1-1/16x12	3/4	3.66	93,5	30	32	2.03	52,0
10677-12-12C	3/4	1-1/16x12	3/4	3.77	95,7	30	36	2.13	54,2
10677-12-16	3/4	1-1/16x12	1	4.12	104,7	36	32	2.17	55,2
10677-14-12	7/8	1-3/16x12	3/4	3.88	98,5	36	36	2.24	56,9
10677-16-12	1	1-5/16x12	3/4	3.87	98,7	30	41	2.24	57,3
10677-16-12C	1	1-5/16x12	3/4	4.01	101,8	36	46	2.37	60,3
10677-16-16	1	1-5/16x12	1	4.15	105,7	36	41	2.20	56,2
10677-16-16C	1	1-5/16x12	1	4.16	105,7	36	41	2.21	56,2
10677-16-20	1	1-5/16x12	1-1/4	4.84	123,0	46	41	2.57	65,3
10677-20-16	1-1/4	1-5/8x12	1	4.38	109,1	36	50	2.43	59,5
10677-20-20	1-1/4	1-5/8x12	1-1/4	4.86	123,5	46	50	2.59	65,8
10677-20-20C	1-1/4	1-5/8x12	1-1/4	4.92	125,0	46	60	2.65	67,3
10677-24-20	1-1/2	1-7/8x12	1-1/4	4.98	126,5	46	60	2.71	68,6
10677-24-24	1-1/2	1-7/8x12	1-1/2	5.34	135,7	50	60	2.95	75,0
10677-24-24C	1-1/2	1-7/8x12	1-1/2	5.55	140,9	50	65	3.16	80,3
10677-32-32	2	2-1/2x12	2	6.29	159,8	65	75	3.54	89,9
10677-32-32C*	2	2-1/2x12	2	6.29	159,8	65	75	3.54	89,9



view on web page

All sizes of 10677 fittings are rated at 5,000 psi working pressure.

"C" suffix indicates stainless steel part. Some stainless steel parts are dimensionally different than the standard part.

***This specific size in stainless is not able to be crimped in any Parkrimp machine.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

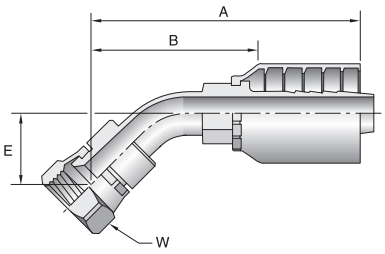
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

13777

Female JIC 37° - Swivel - 45° Elbow - Short Drop

ISO 12151-5



view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
13777-8-8	1/2	3/4x16	1/2	2.86	72,7	0.59	15	22	1.64	41,8
13777-8-8C	1/2	3/4x16	1/2	2.86	72,7	0.59	15	22	1.64	41,8
13777-10-8	5/8	7/8x14	1/2	3.06	77,8	0.63	16	27	1.84	46,8
13777-10-10	5/8	7/8x14	5/8	3.40	86,3	0.63	16	27	2.05	52,1
13777-12-12	3/4	1-1/16x12	3/4	4.37	110,9	0.83	21	32	2.73	69,4
13777-12-12C	3/4	1-1/16x12	3/4	4.37	110,9	0.83	21	32	2.73	69,4
13777-16-12	1	1-5/16x12	3/4	4.49	114,0	0.94	24	41	2.85	72,5
13777-16-16	1	1-5/16x12	1	4.76	120,8	0.94	24	41	2.81	71,3
13777-20-20	1-1/4	1-5/8x12	1-1/4	5.92	150,3	1.26	32	50	3.64	92,6
13777-32-32*	2	2-1/2x12	2	8.58	218,0	2.20	56	75	5.83	148,1

All sizes of 13777 fittings are rated at 5,000 psi working pressure.

"C" suffix indicates stainless steel part. Some stainless steel parts are dimensionally different than the standard part.

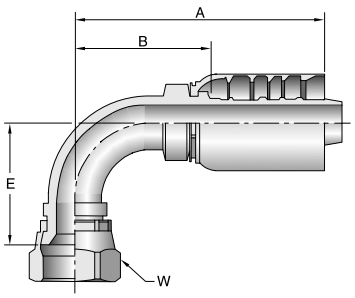
***This specific size is not able to be crimped in any Parkrimp machine.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

13977

Female JIC 37° - Swivel - 90° Elbow - Short Drop

ISO 12151-5



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
13977-8-8	1/2	3/4x16	1/2	2.78	70,7	1.14	29,0	22	1.56	39,7
13977-8-8C	1/2	3/4x16	1/2	2.78	70,7	1.14	29,0	22	1.56	39,7
13977-10-8	5/8	7/8x14	1/2	2.77	70,5	1.26	32,0	27	1.55	39,5
13977-10-10	5/8	7/8x14	5/8	3.21	81,5	1.26	32,0	27	1.86	47,3
13977-12-10	3/4	1-1/16x12	5/8	3.21	81,5	1.89	48,0	32	1.86	47,3
13977-12-12	3/4	1-1/16x12	3/4	4.23	107,4	1.89	48,0	32	2.60	66,0
13977-12-12C	3/4	1-1/16x12	3/4	4.23	107,4	1.89	48,0	32	2.60	66,0
13977-16-12	1	1-5/16x12	3/4	4.23	107,4	2.93	74,5	41	2.59	65,9
13977-16-16	1	1-5/16x12	1	4.65	118,1	2.93	74,4	41	2.70	68,6
13977-16-16C	1	1-5/16x12	1	4.72	119,9	2.93	74,4	46	2.77	70,4
13977-20-20	1-1/4	1-5/8x12	1-1/4	5.35	136,0	3.07	78,0	50	3.08	78,3
13977-20-20C	1-1/4	1-5/8x12	1-1/4	6.28	159,5	3.07	78,0	60	4.01	101,8
13977-24-24	1-1/2	1-7/8x12	1-1/2	6.24	158.45	3.39	86,0	60	3.85	97.75
13977-32-32	2	2-1/2x12	2	8.75	222,1	5.51	140,0	75	5.99	152,2

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

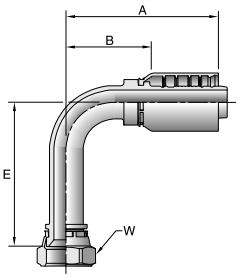
14177

Female JIC 37° - Swivel - 90° Elbow - Long Drop

ISO 12151-5

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm	Additional Material Stainless Steel (C)
14177-8-8	1/2	3/4x16	1/2	2.78	70,7	2.52	64,0	22	1.56	39,7	•
14177-12-12	3/4	1-1/16x12	3/4	4.24	107,6	3.78	96,0	32	2.60	66,1	
14177-16-16	1	1-5/16x12	1	4.65	118,1	4.49	114,0	41	2.70	68,6	

All sizes of 14177 fittings are rated at 5,000 psi working pressure.



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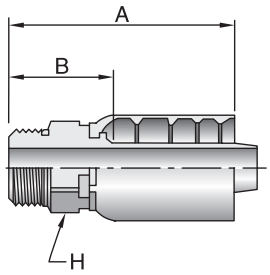
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10577

Male SAE Thread with O-Ring - Rigid

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H mm	B inch	B mm	Additional Material Stainless Steel (C)
10577-8-8	1/2	3/4x16	1/2	2.39	60,8	22	1.17	29,8	•
10577-12-12	3/4	1-1/16x12	3/4	3.17	80,5	32	1.53	38,9	•
10577-16-16	1	1-5/16x12	1	3.73	94,7	41	1.78	45,2	
10577-20-20	1-1/4	1-5/8x12	1-1/4	4.17	105,9	50	1.90	48,2	
10577-32-20	2	2-1/2x12	1-1/4	4.35	110,5	2-3/4	2.08	52,8	



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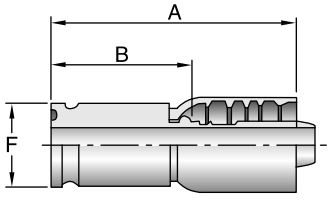
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1X577

Full Flange - Code 61/62

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm
1X577-8-8	1/2	1/2	2.44	62,1	1.02	1.22	31,1
1X577-12-12	3/4	3/4	4.06	103,0	1.37	2.42	61,6
1X577-16-12	1	3/4	4.06	103,0	1.54	2.42	61,6
1X577-16-16	1	1	4.45	113,0	1.54	2.50	63,5
1X577-16-20	1	1-1/4	4.73	120,2	1.54	2.46	62,5
1X577-20-16	1-1/4	1	4.45	113,0	1.81	2.50	63,5
1X577-20-20	1-1/4	1-1/4	4.73	120,2	1.81	2.46	62,5
1X577-24-20	1-1/2	1-1/4	4.85	123,2	2.21	2.58	65,5
1X577-24-24	1-1/2	1-1/2	5.07	128,8	2.21	2.68	68,1
1X577-32-32	2	2	6.08	154,4	2.60	3.32	84,3



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

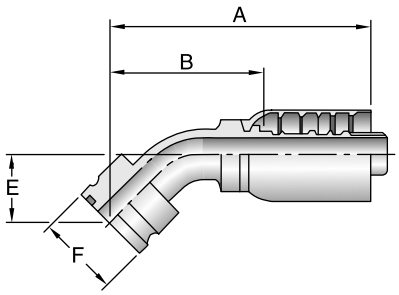
See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1X777

Full Flange - 45° Elbow - Code 61/62



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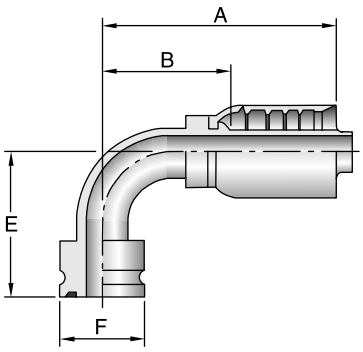
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1X777-12-12	3/4	3/4	4.67	118,5	1.12	28,5	1.37	3.03	77,0
1X777-16-12	1	3/4	4.66	118,3	1.12	28,5	1.54	3.02	76,8
1X777-16-16	1	1	5.07	128,8	1.26	32,0	1.54	3.12	79,3
1X777-16-20	1	1-1/4	5.71	145,0	1.50	38,0	1.54	3.44	87,3
1X777-20-16	1-1/4	1	5.31	134,8	1.50	38,0	1.81	3.36	85,3
1X777-20-20	1-1/4	1-1/4	6.23	158,3	1.58	40,0	1.81	3.96	100,6
1X777-24-20	1-1/2	1-1/4	6.38	162,2	1.73	44,0	2.21	4.11	104,5
1X777-24-24	1-1/2	1-1/2	7.14	181.35	1.97	50,0	2.21	4.75	120.65

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1X977

Full Flange - 90° Elbow - Code 61/62



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1X977-8-8	1/2	1/2	3.14	79,8	1.69	43,0	1.02	1.92	48,9
1X977-12-12	3/4	3/4	4.24	107,6	2.38	60,5	1.37	2.60	66,1
1X977-12-16	3/4	1	4.33	109,9	2.76	70,0	1.37	2.38	60,5
1X977-16-12	1	3/4	4.24	107,6	2.38	60,5	1.54	2.60	66,1
1X977-16-16	1	1	4.65	118,1	2.76	70,0	1.54	2.70	68,6
1X977-16-20	1	1-1/4	5.44	138,2	3.54	90,0	1.54	3.17	80,5
1X977-20-16	1-1/4	1	4.65	118,1	3.54	90,0	1.81	2.70	68,6
1X977-20-20	1-1/4	1-1/4	5.35	136,0	3.54	90,0	1.81	3.08	78,3
1X977-24-20	1-1/2	1-1/4	5.35	136,0	4.09	104,0	2.21	3.08	78,3
1X977-24-24	1-1/2	1-1/2	6.24	158.45	4.09	104,0	2.21	3.85	97.75
1X977-32-32	2	2	8.75	222,1	5.43	138,0	2.60	5.99	152,2

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

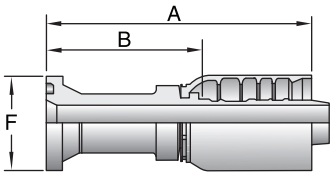
Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

11577

SAE Code 61 Flange Head

ISO 12151-3-S-L

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm	Additional Material Stainless Steel (C)
11577-8-8	1/2	1/2	3.52	89,6	1-3/16	2.30	58,6	•
11577-10-10	5/8	5/8	3.90	99,0	1-11/32	2.55	64,8	
11577-12-8	3/4	1/2	2.52	64,0	1-1/2	1.30	33,0	
11577-12-12	3/4	3/4	4.23	107,4	1-1/2	2.59	65,9	•
11577-12-16	3/4	1	4.70	119,4	1-1/2	2.75	69,8	
11577-16-12	1	3/4	3.27	82,9	1-3/4	1.63	41,5	
11577-16-16	1	1	4.70	119,4	1-3/4	2.75	69,9	
11577-16-20	1	1-1/4	5.11	129,8	1-3/4	2.84	72,1	
11577-20-12	1-1/4	3/4	3.66	92,9	2	2.31	58,6	
11577-20-20	1-1/4	1-1/4	5.42	137,7	2	3.15	80,0	
11577-20-24	1-1/4	1-1/2	5.76	146,3	2	3.37	85,6	
11577-24-16	1-1/2	1	3.78	96,0	2-3/8	1.83	46,5	
11577-24-20	1-1/2	1-1/4	3.94	100,1	2-3/8	1.67	42,4	
11577-24-24	1-1/2	1-1/2	5.52	140,2	2-3/8	3.13	79,5	
11577-24-32	1-1/2	2	6.42	162,9	2-3/8	3.66	93,0	
11577-32-24	2	1-1/2	4.59	116,6	2-13/16	2.20	55,9	
11577-32-32*	2	2	6.43	163,2	2-13/16	3.67	93,2	
11577-40-32	2-1/2	2	5.28	133,9	3-5/16	2.52	64,0	



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*This specific size in stainless is not able to be crimped in any Parkrimp machine.

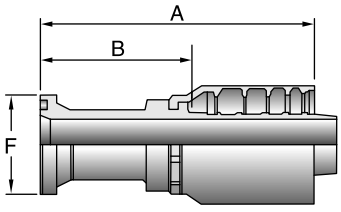
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

14A77

SAE Code 61 Special Flange Head - 5,000* psi

ISO 12151-3-S-L

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm
14A77-20-12	1-1/4	3/4	3.66	92,9	2	2.02	51,4
14A77-20-16	1-1/4	1	3.54	89,9	2	1.59	40,4
14A77-20-20	1-1/4	1-1/4	5.42	137,7	2	3.15	80,0
14A77-20-24	1-1/4	1-1/2	5.76	146,3	2	3.37	85,6
14A77-24-16	1-1/2	1	3.78	96,0	2-3/8	1.83	46,5
14A77-24-20	1-1/2	1-1/4	3.94	100,1	2-3/8	1.67	42,4
14A77-24-24	1-1/2	1-1/2	5.52	140,2	2-3/8	3.13	79,6
14A77-24-32	1-1/2	2	6.42	162,9	2-3/8	3.66	93,0
14A77-32-24	2	1-1/2	4.59	116,6	2-13/16	2.20	55,9
14A77-32-32	2	2	6.43	163,3	2-13/16	3.67	93,2



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*Must be used with 5050HK Flange Kits

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

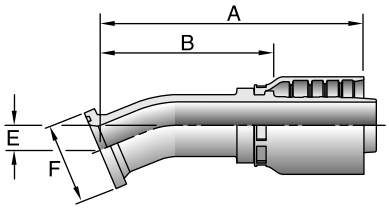
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

11677

SAE Code 61 Flange Head - 22-1/2˚ Elbow

ISO 12151-3-E22M-L



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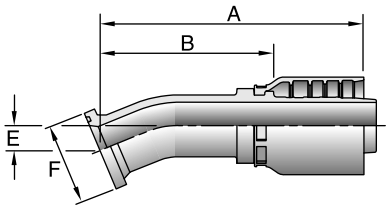
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11677-12-12	3/4	3/4	4.84	122,9	0.43	11,0	1-1/2	3.20	81,4
11677-16-12	1	3/4	5.15	122,9	0.43	14,0	1-3/4	3.51	81,4
11677-16-16	1	1	5.42	137,6	0.55	14,0	1-3/4	3.47	88,1
11677-20-16	1-1/4	1	5.74	145,9	0.59	15,0	2	3.80	96,4
11677-20-20	1-1/4	1-1/4	6.65	169,0	0.59	15,0	2	4.38	111,3
11677-24-20	1-1/2	1-1/4	6.96	176,8	0.71	18,0	2-3/8	4.69	119,1
11677-24-24	1-1/2	1-1/2	7.45	189.35	0.71	18,0	2-3/8	5.06	128.65
11677-32-24	2	1-1/2	8.09	205.55	0.87	22,0	2-13/16	5.70	144.85
11677-32-32	2	2	9.12	231,7	0.87	22,0	2-13/16	6.37	161,7

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

14B77

SAE Code 61 Special Flange Head - 22-1/2˚ Elbow - 5,000* psi

ISO 12151-3-E22M-L



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
14B77-20-20	1-1/4	1-1/4	6.65	169,0	0.59	15,0	2	4.38	111,3
14B77-24-24	1-1/2	1-1/2	7.45	189.35	0.71	18,0	2-3/8	5.06	128.65
14B77-32-32	2	2	9.12	231,7	0.87	22,0	2-13/16	6.37	161,7

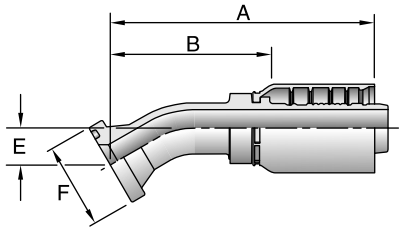
*Must be used with 5050HK Flange Kits

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

12677

SAE Code 61 Flange Head - 30˚ Elbow

ISO 12151-3-E30M-L



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
12677-12-12	3/4	3/4	4.77	121,1	0.63	16,0	1-1/2	3.13	79,6
12677-20-16	1-1/4	1	5.64	143,3	0.87	22,0	2	3.69	93,8
12677-20-20	1-1/4	1-1/4	6.53	165,9	0.87	22,0	2	4.26	108,2
12677-24-24	1-1/2	1-1/2	7.28	184.85	1.18	30,0	2-3/8	4.89	124.15
12677-32-24	2	1-1/2	7.92	201.25	1.26	32,0	2-13/16	5.53	140.55
12677-32-32	2	2	9.01	228,9	1.26	32,0	2-13/16	6.26	159,0

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

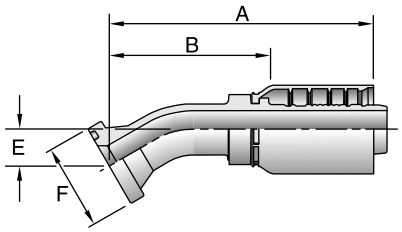
14E77

SAE Code 61 Special Flange Head - 30˚ Elbow - 5,000 psi

ISO 12151-3-E30S-L

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
14E77-24-24	1-1/2	1-1/2	7.28	184.85	1.18	30	2-3/8	4.89	124.15
14E77-32-32	2	2	9.01	228,9	1.26	32	2-13/16	6.26	159,0

Must be used with 5050HK Flange Kits



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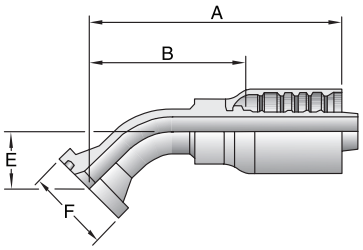
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11777

SAE Code 61 Flange Head - 45˚ Elbow

ISO 12151-3-E45M-L

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11777-8-8	1/2	1/2	3.11	79,0	0.79	20,0	1-3/16	1.89	48,0
11777-12-8	3/4	1/2	3.33	84,7	0.87	22,0	1-1/2	2.11	53,7
11777-12-12	3/4	3/4	4.57	116,0	1.02	26,0	1-1/2	2.93	74,5
11777-16-12	1	3/4	4.80	116,0	1.02	32,0	1-3/4	3.16	74,5
11777-16-16	1	1	5.07	128,8	1.26	32,0	1-3/4	3.12	79,3
11777-16-20	1	1-1/4	5.71	145,0	1.50	38,0	1-3/4	3.44	87,3
11777-20-16	1-1/4	1	5.31	134,8	1.50	38,0	2	3.36	85,3
11777-20-20	1-1/4	1-1/4	6.15	156,2	1.50	38,0	2	3.88	98,5
11777-24-20	1-1/2	1-1/4	6.38	162,2	1.73	44,0	2-3/8	4.11	104,5
11777-24-24	1-1/2	1-1/2	6.90	175.35	1.73	44,0	2-3/8	4.51	114.65
11777-32-24	2	1-1/2	7.38	187.35	2.20	56,0	2-13/16	4.99	126.65
11777-32-32	2	2	8.58	218,0	2.20	56,0	2-13/16	5.83	148,1



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

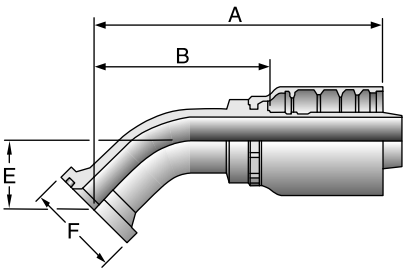
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

14F77

SAE Code 61 Special Flange Head - 45° - 5,000* psi

ISO 12151-3-E45M-L



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
14F77-20-16	1-1/4	1	5.31	134,8	1.50	38,0	2	3.36	85,3
14F77-20-20	1-1/4	1-1/4	6.15	156,2	1.50	38,0	2	3.88	98,5
14F77-20-24	1-1/4	1-1/2	6.72	170.75	1.73	44,0	2	4.33	110.05
14F77-24-20	1-1/2	1-1/4	6.38	162,2	1.73	44,0	2-3/8	4.11	104,5
14F77-24-24	1-1/2	1-1/2	6.90	175.35	1.73	44,0	2-3/8	4.51	114.65
14F77-32-24	2	1-1/2	7.38	187.35	2.20	56,0	2-13/16	4.99	126.65
14F77-32-32	2	2	8.58	218,0	2.20	56,0	2-13/16	5.83	148,1

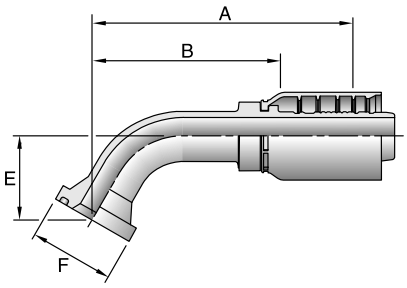
*Must be used with 5050HK Flange Kits

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

12777

SAE Code 61 Flange Head - 60° Elbow

ISO 12151-3-E60M-L



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
12777-12-12	3/4	3/4	5.27	133,8	1.46	37,0	1-1/2	3.63	92,3
12777-16-12	1	3/4	5.58	133,8	1.46	44,0	1-3/4	3.94	92,3
12777-16-16	1	1	5.91	150,2	1.73	44,0	1-3/4	3.96	100,7
12777-20-20	1-1/4	1-1/4	7.05	179,2	2.17	55,0	2	4.78	121,5
12777-24-20	1-1/2	1-1/4	7.40	188,1	2.52	64,0	2-3/8	5.13	130,4
12777-24-24	1-1/2	1-1/2	8.01	203.35	2.52	64,0	2-3/8	5.62	142.65
12777-32-32	2	2	8.74	222,1	3.27	83,0	2-13/16	5.99	152,1

* This specific size is not able to be crimped in any Parkrimp machine.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

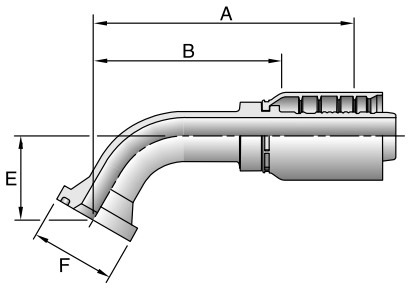
14G77

SAE Code 61 Special Flange Head - 60° Elbow - 5,000* psi

ISO 12151-3-E60M-L

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
14G77-20-16	1-1/4	1	5.97	151,6	1.73	44,0	2	4.02	102,1
14G77-24-24	1-1/2	1-1/2	8.14	206.65	2.52	64,0	2-3/8	5.75	145.95
14G77-32-32	2	2	8.74	222,1	3.27	83,0	2-13/16	5.99	152,1

*Must be used with 5050HK Flange Kits



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

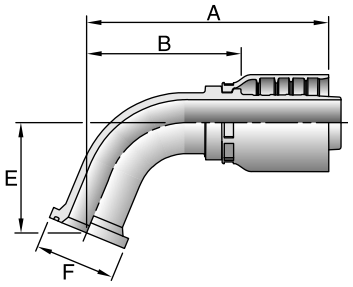
11877

SAE Code 61 Flange Head - 67-1/2° Elbow

ISO 12151-3-E67M-L

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
11877-12-12	3/4	3/4	5.07	128,7	1.65	42,0	1-1/2	3.43	87,2
11877-16-12	1	3/4	5.31	128,7	1.65	51,0	1-3/4	3.67	87,2
11877-20-20	1-1/4	1-1/4	6.71	170,6	2.52	64,0	2	4.44	112,9
11877-24-20	1-1/2	1-1/4	7.01	178,0	2.91	74,0	2-3/8	4.73	120,3
11877-24-24	1-1/2	1-1/2	7.77	197.25	2.91	74,0	2-3/8	5.38	136.55
11877-32-24*	2	1-1/2	8.50	215.95	3.82	97,0	2-13/16	6.11	155.25
11877-32-32	2	2	8.72	221,4	3.82	97,0	2-13/16	5.97	151,5

*This specific size is not able to be crimped in any Parkrimp machine.



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

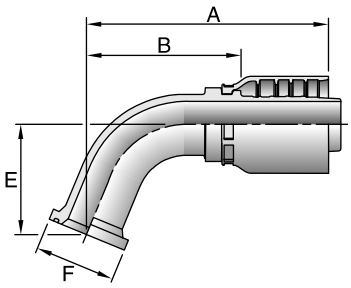
See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

14M77

SAE Code 61 Special Flange Head - 67-1/2˚ Elbow - 5,000* psi



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
14M77-24-24	1-1/2	1-1/2	7.77	199.25	2.91	74,0	2-3/8	5.38	136.55

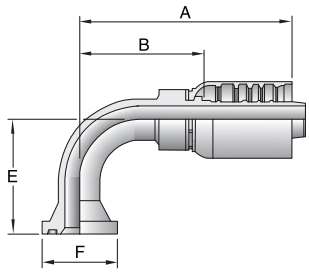
*Must be used with 5050HK Flange Kits

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

11977

SAE Code 61 Flange Head - 90˚ Elbow

ISO 12151-3-E90M-L



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm	Additional Material Stainless Steel (C)
11977-8-8	1/2	1/2	2.99	76,0	1.61	41,0	1-3/16	1.77	45,0	•
11977-10-10	5/8	5/8	3.62	91,9	2.09	53,0	1-11/32	2.27	57,7	
11977-12-8	3/4	1/2	2.77	70,5	1.61	41,0	1-1/2	1.55	39,5	
11977-12-10	3/4	5/8	3.40	86,3	2.09	53,0	1-1/2	2.05	52,1	
11977-12-12	3/4	3/4	4.24	107,6	2.28	58,0	1-1/2	2.60	66,1	•
11977-12-16	3/4	1	4.41	112,0	2.76	70,0	1-1/2	2.46	62,5	
11977-16-10	1	5/8	3.21	81,5	2.09	53,0	1-3/4	1.86	47,3	
11977-16-12	1	3/4	4.24	107,6	2.28	70,0	1-3/4	2.60	66,1	•
11977-16-16	1	1	4.65	118,1	2.76	70,0	1-3/4	2.70	68,6	
11977-16-16C	1	1	4.72	119,9	2.76	70,0	1-3/4	2.77	70,4	•
11977-16-20	1	1-1/4	5.05	128,3	3.54	90,0	1-3/4	2.78	70,6	
11977-20-12	1-1/4	3/4	4.23	107,4	2.28	58,0	2	2.59	65,9	
11977-20-16	1-1/4	1	4.65	118,1	3.54	90,0	2	2.70	68,6	
11977-20-20	1-1/4	1-1/4	5.35	136,0	3.54	90,0	2	3.08	78,3	
11977-20-24	1-1/4	1-1/2	5.69	144.55	4.09	104,0	2	3.30	83.85	
11977-24-16	1-1/2	1	4.65	118,1	2.76	70,0	2-3/8	2.70	68,6	
11977-24-20	1-1/2	1-1/4	5.35	136,0	4.09	104,0	2-3/8	3.08	78,3	
11977-24-24	1-1/2	1-1/2	6.24	158.45	4.09	104,0	2-3/8	3.85	97.75	
11977-32-24	2	1-1/2	6.24	158.45	5.43	138.00	2-13/16	3.85	97.75	
11977-32-32	2	2	8.75	222,1	5.43	138,0	2-13/16	5.99	152,2	

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

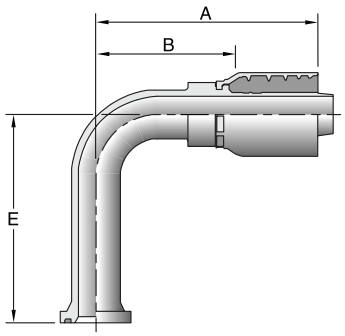
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

18977

SAE Code 61 Flange Head - 90˚ Elbow - Long Drop

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
18977-12-12	3/4	3/4	4.23	107,4	5.12	130,0	1-1/2	2.59	65,9
18977-16-16	1	1	4.65	118,1	4.60	116,8	1-3/4	2.70	68,6
18977-20-16	1-1/4	1	4.65	118,1	5.51	140,0	2	2.70	68,6



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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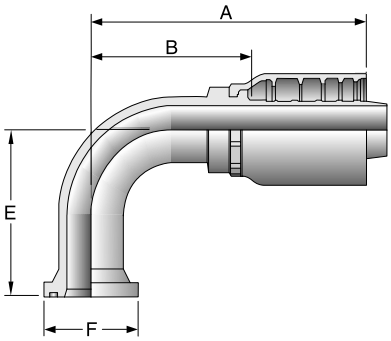
14N77

SAE Code 61 Special Flange Head - 90˚ Elbow - 5,000* psi

ISO 12151-3-E90M-L

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm	Additional Material Stainless Steel (C)
14N77-20-16	1-1/4	1	4.65	118,1	3.54	90,0	2	2.70	68,6	
14N77-20-20	1-1/4	1-1/4	5.35	136,0	3.54	90,0	2	3.08	78,3	
14N77-20-20C	1-1/4	1-1/4	6.28	159,5	3.54	90,0	2	4.00	101,8	•
14N77-24-20	1-1/2	1-1/4	5.35	136,0	4.09	104,0	2-3/8	3.08	78,3	
14N77-24-24	1-1/2	1-1/2	6.24	158.45	4.09	104,0	2-3/8	3.85	97.75	
14N77-24-32	1-1/2	2	7.65	194,2	5.43	138,0	2-3/8	4.89	124,2	
14N77-32-24	2	1-1/2	6.24	158.45	5.43	138,0	2-13/16	3.85	97.75	
14N77-32-32	2	2	8.75	222,1	5.43	138,0	2-13/16	5.99	152,2	

*Must be used with 5050HK Flange Kits



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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See Accessories Section for O-Rings and Flange Kits.

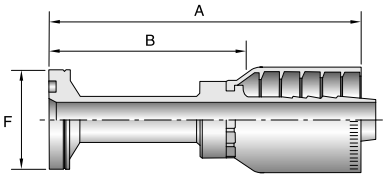
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

16A77

SAE Code 62 Flange Head

ISO 12151-3-S-S



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm	Additional Material Stainless Steel (C)
16A77-8-8	1/2	1/2	3.51	89,3	1-1/4	2.29	58,3	
16A77-8-10	1/2	5/8	3.83	97,3	1-1/4	2.48	63,0	
16A77-12-10	3/4	5/8	2.95	74,9	1-5/8	1.60	40,7	
16A77-12-12	3/4	3/4	4.49	113,9	1-5/8	2.85	72,5	•
16A77-12-16	3/4	1	4.96	126,0	1-5/8	3.01	76,5	
16A77-16-12	1	3/4	3.47	88,1	1-7/8	1.83	46,6	
16A77-16-16	1	1	4.45	113,0	1-7/8	2.50	63,5	•
16A77-16-20	1	1-1/4	5.66	143,8	1-7/8	3.39	86,1	
16A77-20-16	1-1/4	1	4.05	102,9	2-1/8	2.10	53,4	•
16A77-20-20	1-1/4	1-1/4	5.73	145,6	2-1/8	3.46	87,8	•
16A77-20-24	1-1/4	1-1/2	6.06	153,9	2-1/8	3.67	93,2	
16A77-24-16	1-1/2	1	4.25	108,0	2-1/2	2.30	58,4	
16A77-24-20	1-1/2	1-1/4	4.65	118,1	2-1/2	2.38	60,4	
16A77-24-24	1-1/2	1-1/2	6.39	162,3	2-1/2	4.00	101,6	•
16A77-32-24	2	1-1/2	5.23	132,8	3-1/8	2.84	72,2	
16A77-32-32*	2	2	7.17	182,1	3-1/8	4.41	112,0	•

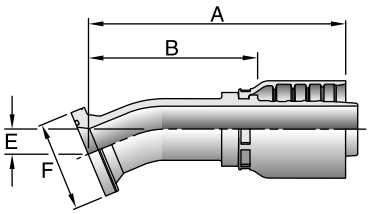
*This specific size in stainless is not able to be crimped in any Parkrimp machine.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

16B77

SAE Code 62 Flange Head - 22-1/2° Elbow

ISO 12151-3-E22M-S



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
16B77-16-16	1	1	5.42	137,6	0.55	14,0	1-7/8	3.47	88,1
16B77-20-20	1-1/4	1-1/4	6.65	168,9	0.59	15,0	2-1/8	4.38	111,2
16B77-24-24	1-1/2	1-1/2	7.45	189.35	0.71	18,0	2-1/2	5.06	128.65
16B77-32-32	2	2	9.12	231,7	0.87	22,0	3-1/8	6.37	161,7

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

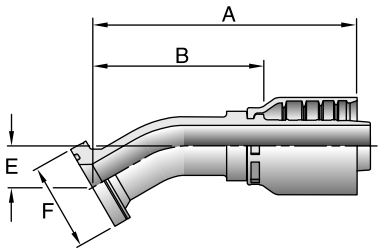
Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

16E77

SAE Code 62 Flange Head - 30˚ Elbow

ISO 12151-3-E30M-S

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
16E77-12-12	3/4	3/4	4.77	121,1	0.63	16,0	1-5/8	3.13	79,6
16E77-16-16	1	1	5.34	135,6	0.75	19,0	1-7/8	3.39	86,1
16E77-20-20	1-1/4	1-1/4	6.53	165,9	0.87	22,0	2-1/8	4.26	108,2
16E77-24-24	1-1/2	1-1/2	7.28	184.85	1.18	30,0	2-1/2	4.89	124.15
16E77-32-24	2	1-1/2	7.93	201.35	1.26	32,0	3-1/8	5.54	140.65
16E77-32-32	2	2	9.01	228,9	1.26	32,0	3-1/8	6.26	159,0



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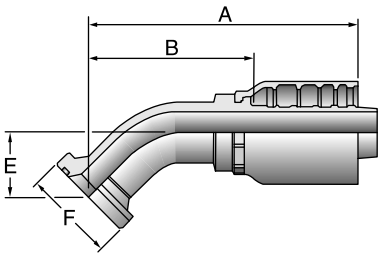
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

16F77

SAE Code 62 Flange Head - 45˚ Elbow

ISO 12151-3-E45M-S

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm	Additional Material Stainless Steel (C)
16F77-8-8	1/2	1/2	3.11	79,0	0.75	19,0	1-1/4	1.89	48,0	
16F77-12-10	3/4	5/8	3.77	95,7	1.00	25,5	1-5/8	2.42	61,5	
16F77-12-12	3/4	3/4	4.57	116,0	1.02	26,0	1-5/8	2.93	74,5	
16F77-12-16	3/4	1	4.98	126,5	1.26	32,0	1-5/8	3.03	77,0	
16F77-16-12	1	3/4	4.80	116,0	1.02	32,0	1-7/8	3.16	74,5	
16F77-16-16	1	1	5.07	128,8	1.26	32,0	1-7/8	3.12	79,3	
16F77-16-20	1	1-1/4	5.71	145,0	1.50	38,0	1-7/8	3.44	87,3	
16F77-20-16	1-1/4	1	5.31	134,8	1.50	38,0	2-1/8	3.36	85,3	
16F77-20-20	1-1/4	1-1/4	6.15	156,3	1.50	38,0	2-1/8	3.88	98,6	
16F77-20-20C	1-1/4	1-1/4	6.66	169,2	1.50	38,0	2-1/8	4.39	111,5	•
16F77-24-20	1-1/2	1-1/4	6.38	162,2	1.73	44,0	2-1/2	4.11	104,5	
16F77-24-24	1-1/2	1-1/2	6.90	175.35	1.73	44,0	2-1/2	4.51	114.65	
16F77-32-24	2	1-1/2	7.38	187.35	2.20	56,0	3-1/8	4.99	126.65	
16F77-32-32*	2	2	8.58	218,0	2.20	56,0	3-1/8	5.83	148,1	



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***This specific size in stainless is not able to be crimped in any Parkrimp machine.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

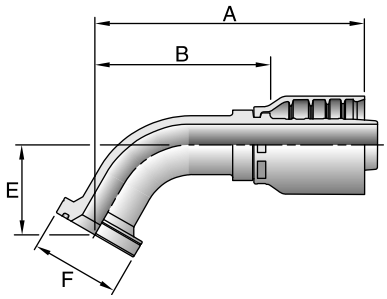
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

16G77

SAE Code 62 Flange Head - 60° Elbow

ISO 12151-3-E60M-S



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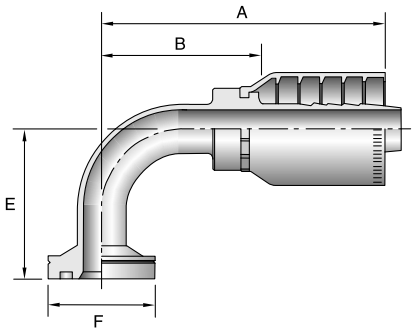
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
16G77-12-12	3/4	3/4	5.27	133,8	1.46	37,0	1-5/8	3.63	92,3
16G77-16-16	1	1	5.91	150,1	1.73	44,0	1-7/8	3.96	100,6
16G77-24-24	1-1/2	1-1/2	8.14	206.65	2.52	64,0	2-1/2	5.75	145.95
16G77-32-32	2	2	8.74	222,1	3.27	83,0	3-1/8	5.99	152,1

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

16N77

SAE Code 62 Flange Head - 90° Elbow

ISO 12151-3 - E90M - S



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm	Additional Material Stainless Steel (C)
16N77-8-8	1/2	1/2	2.77	70,5	1.61	41,0	1-1/4	1.55	39,5	
16N77-8-10	1/2	5/8	3.09	78,5	2.13	54,0	1-1/4	1.74	44,2	
16N77-12-12	3/4	3/4	4.24	107,6	2.28	58,0	1-5/8	2.60	66,1	•
16N77-12-16	3/4	1	4.41	112,0	2.76	70,0	1-5/8	2.46	62.5	
16N77-16-12	1	3/4	4.24	107,6	2.28	70,0	1-7/8	2.60	66,1	
16N77-16-16	1	1	4.65	118,1	2.76	70,0	1-7/8	2.70	68,6	
16N77-16-16C	1	1	4.72	119,9	2.76	70,0	1-7/8	2.77	70,4	•
16N77-16-20	1	1-1/4	5.05	128,3	3.54	90,0	1-7/8	2.78	70,6	
16N77-16-20C	1	1-1/4	5.44	138,2	3.54	90,0	1-7/8	3.17	80,5	•
16N77-20-16	1-1/4	1	4.65	118,1	3.54	90,0	2-1/8	2.70	68,6	
16N77-20-20	1-1/4	1-1/4	5.35	136,0	3.54	90,0	2-1/8	3.08	78,3	
16N77-20-20C	1-1/4	1-1/4	6.28	159,5	3.54	90,0	2-1/8	4.00	101,8	•
16N77-20-24	1-1/4	1-1/2	5.69	144.55	4.09	104,0	2-1/8	3.30	83.85	
16N77-24-20	1-1/2	1-1/4	5.35	136,0	4.09	104,0	2-1/2	3.08	78,3	
16N77-24-20C	1-1/2	1-1/4	6.28	159,5	4.09	104,0	2-1/2	4.00	101,8	•
16N77-24-24	1-1/2	1-1/2	6.24	158.45	4.09	104,0	2-1/2	3.85	97.75	•
16N77-32-24	2	1-1/2	6.24	158.45	5.43	138.00	3-1/8	3.85	97.75	
16N77-32-32*	2	2	8.75	222,1	5.43	138,0	3-1/8	5.99	152,2	•

***This specific size in stainless is not able to be crimped in any Parkrimp machine.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

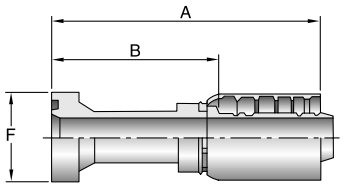
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1XA77

Caterpillar® Flange Head

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm
1XA77-12-12	3/4	3/4	4.48	113,7	1-5/8	2.84	72,2
1XA77-12-16	3/4	1	4.96	126,0	1-5/8	3.01	76,5
1XA77-16-12	1	3/4	3.47	88,1	1-7/8	1.83	46,6
1XA77-16-16	1	1	5.54	140,7	1-7/8	3.59	91,2
1XA77-20-16	1-1/4	1	4.10	104,1	2-1/8	2.15	54,6
1XA77-20-20	1-1/4	1-1/4	5.98	151,9	2-1/8	3.71	94,2
1XA77-20-24	1-1/4	1-1/2	6.32	160,5	2-1/8	3.93	99,8
1XA77-24-20	1-1/2	1-1/4	4.65	118,1	2-1/2	2.38	60,4
1XA77-24-24	1-1/2	1-1/2	6.94	176,3	2-1/2	4.55	115,6
1XA77-32-32	2	2	7.56	191,9	3-1/8	4.80	121,9



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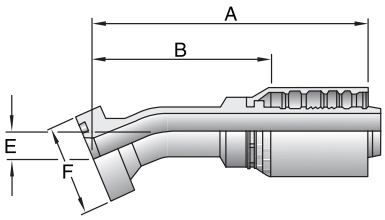
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1XB77

Caterpillar® Flange Head - 22-1/2° Elbow

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1XB77-12-12	3/4	3/4	5.09	129,2	0.55	14,0	1-5/8	3.45	87,7
1XB77-16-12	1	3/4	5.09	129,2	0.55	14,0	1-7/8	3.45	87,7
1XB77-16-16	1	1	5.64	143,2	0.55	14,0	1-7/8	3.69	93,7
1XB77-20-16	1-1/4	1	5.64	143,3	0.55	14,0	2-1/8	3.69	93,8
1XB77-20-20	1-1/4	1-1/4	6.58	167,1	0.67	17,0	2-1/8	4.31	109,4
1XB77-24-24	1-1/2	1-1/2	7.51	190.75	0.71	18,0	2-1/2	5.12	130.05
1XB77-32-32	2	2	9.12	231,7	0.87	22,0	3-1/8	6.37	161,7



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

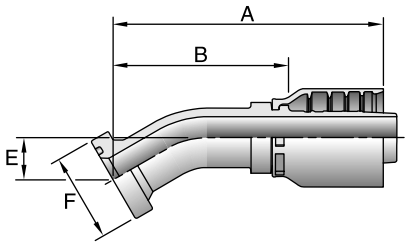
See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1XE77

Caterpillar® Flange Head - 30° Elbow



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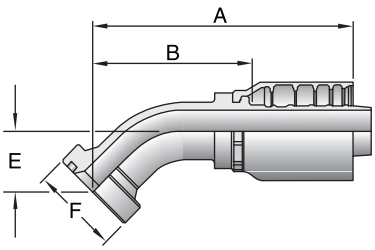
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1XE77-12-12	3/4	3/4	5.00	126,9	0.83	21,0	1-5/8	3.36	85,4
1XE77-16-12	1	3/4	5.02	127,4	0.75	19,0	1-7/8	3.38	86,0
1XE77-16-16	1	1	5.56	141,3	0.75	19,0	1-7/8	3.61	91,8
1XE77-20-16	1-1/4	1	5.53	140,4	0.87	22,0	2-1/8	3.58	90,9
1XE77-20-20	1-1/4	1-1/4	6.45	163,9	0.94	24,0	2-1/8	4.18	106,2
1XE77-24-24	1-1/2	1-1/2	7.33	186.25	1.18	30,0	2-1/2	4.94	125.55
1XE77-32-32	2	2	9.01	228,9	1.26	32,0	3-1/8	6.26	159,0

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1XF77

Caterpillar® Flange Head - 45° Elbow



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1XF77-12-12	3/4	3/4	4.76	120,8	1.22	31,0	1-5/8	3.12	79,3
1XF77-16-12	1	3/4	4.76	120,8	1.22	31,0	1-7/8	3.12	79,3
1XF77-16-16	1	1	5.23	132,8	1.42	36,0	1-7/8	3.28	83,3
1XF77-20-16	1-1/4	1	5.23	132,8	1.42	36,0	2-1/8	3.28	83,3
1XF77-20-20	1-1/4	1-1/4	6.11	155,2	1.46	37,0	2-1/8	3.84	97.5
1XF77-24-20	1-1/2	1-1/4	6.11	155,2	1.46	37,0	2-1/2	3.84	97.5
1XF77-24-24	1-1/2	1-1/2	6.94	176.35	1.77	45,0	2-1/2	4.55	115.65
1XF77-32-32	2	2	8.58	218,0	2.20	56,0	3-1/8	5.83	148,1

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

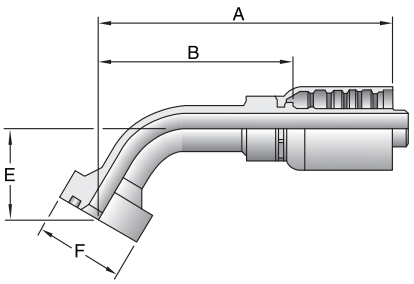
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1XG77

Caterpillar® Flange Head - 60° Elbow

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1XG77-12-12	3/4	3/4	5.35	135,8	1.65	42,0	1-5/8	3.71	94,3
1XG77-16-12	1	3/4	5.35	135,8	1.65	42,0	1-7/8	3.71	94,3
1XG77-16-16	1	1	5.93	150,7	1.97	50,0	1-7/8	3.98	101,2
1XG77-20-16	1-1/4	1	6.07	154,1	1.73	44,0	2-1/8	4.12	104,6
1XG77-20-20	1-1/4	1-1/4	7.31	185,7	2.01	51,0	2-1/8	5.04	128,0
1XG77-24-24	1-1/2	1-1/2	8.18	207.75	2.56	65,0	2-1/2	5.79	147.05
1XG77-32-32	2	2	8.74	222,1	3.27	83,0	3-1/8	5.99	152,1



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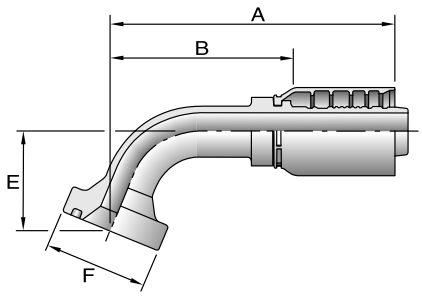
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1XM77

Caterpillar® Flange - 67-1/2° Elbow

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1XM77-12-12	3/4	3/4	5.17	131,2	1.77	45,0	1-5/8	3.53	89,8
1XM77-16-12	1	3/4	5.19	131,8	1.77	45,0	1-7/8	3.55	90,3
1XM77-16-16	1	1	5.78	146,9	2.05	52,0	1-7/8	3.83	97,4
1XM77-20-16	1-1/4	1	5.78	146,9	2.05	52,0	2-1/8	3.83	97,4
1XM77-32-32	2	2	8.72	221,4	3.82	97,0	3-1/8	5.97	151,5



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

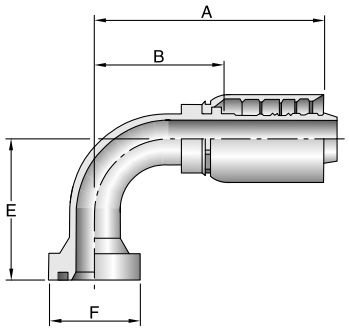
See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1XN77

Caterpillar® Flange Head - 90° Elbow



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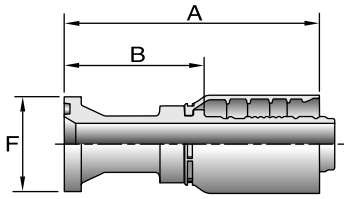
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1XN77-12-12	3/4	3/4	4.23	107,4	2.48	63,0	1-5/8	2.59	65,9
1XN77-12-16	3/4	1	4.41	112,0	2.76	70,0	1-5/8	2.46	62,5
1XN77-16-12	1	3/4	4.23	107,4	2.48	63,0	1-7/8	2.59	65,9
1XN77-16-16	1	1	4.65	118,1	2.91	74,0	1-7/8	2.70	68,6
1XN77-24-20	1-1/2	1-1/4	5.35	136,0	3.03	77,0	2-1/2	3.08	78,3
1XN77-24-24	1-1/2	1-1/2	6.24	158.45	4.16	105,6	2-1/2	3.85	97.75
1XN77-32-32	2	2	8.75	222,1	5.24	133,0	3-1/8	5.99	152,2

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1K577

Komatsu® Flange Head



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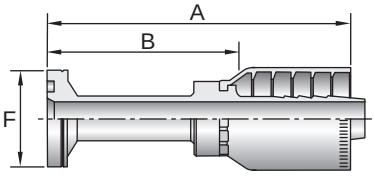
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm
1K577-16-16	1	1	4.70	119,4	1-3/4	2.75	69,9

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1KA77

Komatsu® High Pressure Flange Head



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm
1KA77-20-16	1-1/4	1	4.05	102,9	2-1/8	2.10	53,4
1KA77-20-20	1-1/4	1-1/4	5.73	145,6	2-1/8	3.46	87,9
1KA77-24-24	1-1/2	1-1/2	6.39	162,3	2-1/2	4.00	101,6
1KA77-32-32	2	2	7.17	182,0	2-9/16	4.41	112,0

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

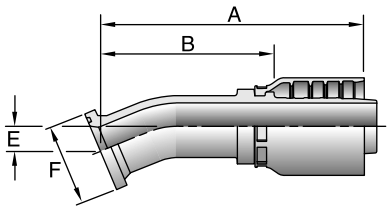
Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1K677

Komatsu® Flange Head - 22-1/2˚ Elbow

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1K677-16-20	1	1-1/4	6.48	164,6	0.59	15,0	1-3/4	4.21	106,9

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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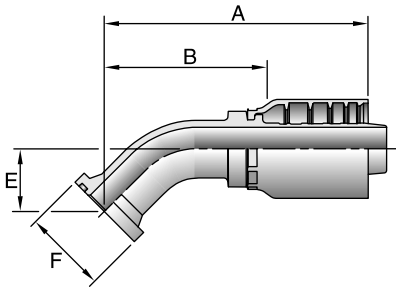
1K777

Komatsu® Flange Head - 45˚ Elbow

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1K777-12-12	3/4	3/4	4.57	116,0	1.02	26,0	1-1/2	2.93	74,5
1K777-16-16	1	1	5.59	142,1	1.26	32,0	1-3/4	3.65	92.6

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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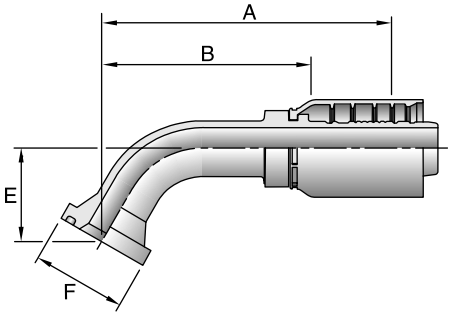
1K377

Komatsu® Flange Head - 60˚ Elbow

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1K377-12-12	3/4	3/4	5.27	133,8	1.46	37,0	1-1/2	3.64	92,4

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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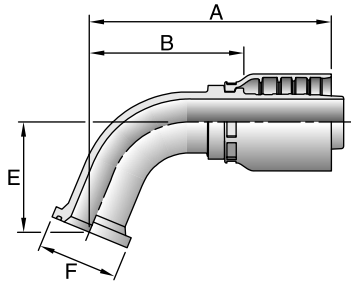
See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1K877

Komatsu® Flange Head - 67-1/2˚ Elbow



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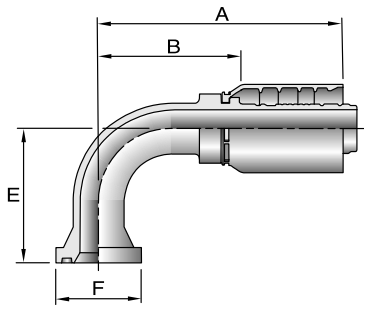
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1K877-16-16	1	1	5.98	151,9	2.01	51,0	1-3/4	4.03	102,4

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1K977

Komatsu® Flange Head - 90˚ Elbow



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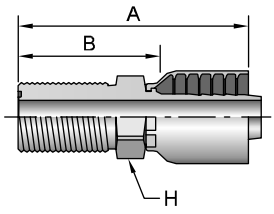
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1K977-12-12	3/4	3/4	4.24	107,7	2.28	58,0	1-1/2	2.60	66,0
1K977-16-12	1	3/4	4.24	107,7	2.17	55,0	1-3/4	2.60	66,0
1K977-16-16	1	1	4.65	118,1	2.76	70,0	1-3/4	2.70	68,6

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1JB77

Male Seal-Lok® - Bulkhead without Locknut (with O-Ring)

End Connection per SAE J516 (Apr2016)



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1JB77-16-16	1-7/16x12	1	4.87	123,7	46	2.92	74,2

Fittings are stocked less locknut (part no. WLNL). Locknuts are manufactured by the Parker Tube Fittings Division and must be ordered separately.

Supplied with Parker's exclusive Trap-Seal™, which leads to improved retention within Seal-Lok's™ ORFS groove and virtually eliminates costly leakage and/or time consuming pre-assembly handling.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

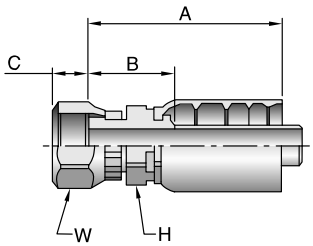
Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1JC77

Female Seal-Lok® - Swivel - Short

ISO 12151-1-SWSA

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	C inch	C mm	H mm	W mm	B inch	B mm	Additional Material Stainless Steel (C)
1JC77-8-8	1/2	13/16x16	1/2	2.35	59,8	0.43	11,0	22	24	1.13	28,8	•
1JC77-10-10	5/8	1x14	5/8	2.75	69,8	0.48	12,0	24	30	1.40	35,6	
1JC77-12-8	3/4	1-3/16x12	1/2	2.63	66,9	0.55	14,0	30	36	1.41	35,9	
1JC77-12-12	3/4	1-3/16x12	3/4	3.08	80,2	0.53	12,0	30	36	1.45	38,7	•
1JC77-16-12	1	1-7/16x12	3/4	3.35	85,0	0.53	14,5	30	41	1.71	43,5	
1JC77-16-16	1	1-7/16x12	1	3.59	91,2	0.53	14,5	36	41	1.64	41,7	
1JC77-20-16	1-1/4	1-11/16x12	1	3.53	95,0	0.53	15,0	36	50	1.58	45,5	
1JC77-20-20	1-1/4	1-11/16x12	1-1/4	4.25	108,0	0.53	15,0	46	50	1.98	50,3	
1JC77-24-24	1-1/2	2x12	1-1/2	4.55	115,6	0.53	15,7	50	60	2.16	54,9	
1JC77-32-32*	2	2-1/2X12	2	5.64	143,1	0.73	18,4	65	75	2.88	73,2	•



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***This specific size in stainless is not able to be crimped in any Parkrimp machine.**

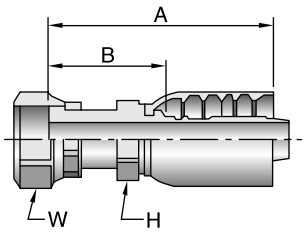
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1JS77

Female Seal-Lok® - Swivel - Long

ISO 12151-1-SWSB

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm	Additional Material Stainless Steel (C)
1JS77-6-8	3/8	11/16x16	1/2	2.67	67,8	22	22	1.45	36,8	
1JS77-8-8	1/2	13/16x16	1/2	2.80	71,2	22	24	1.58	40,2	•
1JS77-10-8	5/8	1x14	1/2	2.95	75,0	24	30	1.73	44,0	
1JS77-10-10	5/8	1x14	5/8	3.21	81,5	24	30	1.86	47,3	
1JS77-10-12	5/8	1x14	3/4	3.58	90,8	30	30	1.94	49,4	
1JS77-12-8	3/4	1-3/16x12	1/2	3.15	80,1	30	36	1.93	49,1	
1JS77-12-10	3/4	1-3/16x12	5/8	3.35	85,1	30	36	2.00	50,8	
1JS77-12-12	3/4	1-3/16x12	3/4	3.68	93,4	30	36	2.04	51,9	
1JS77-12-16	3/4	1-3/16x12	1	4.18	106,2	36	36	2.23	56,7	
1JS77-16-12	1	1-7/16x12	3/4	3.90	99,0	36	41	2.26	57,5	
1JS77-16-16	1	1-7/16x12	1	4.19	106,4	36	41	2.24	56,9	•
1JS77-16-20	1	1-7/16x12	1-1/4	4.71	119,7	46	41	2.44	62,0	
1JS77-20-16	1-1/4	1-11/16x12	1	4.29	108,9	36	50	2.34	59,5	
1JS77-20-20	1-1/4	1-11/16x12	1-1/4	4.78	121,4	46	50	2.51	63,8	•
1JS77-24-24	1-1/2	2x12	1-1/2	5.12	130,0	50	60	2.73	69,4	•
1JS77-32-32	2	2-1/2x12	2	6.28	159,5	65	75	3.52	89,4	



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

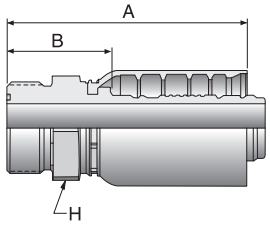
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1J077

Male Seal-Lok® - Rigid - (with O-Ring)

ISO 12151-1-S



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1J077-8-8	13/16x16	1/2	2.85	72,3	22	1.39	35,3
1J077-10-8	1x14	1/2	3.03	77,0	27	1.57	39,9
1J077-10-10	1x14	5/8	3.30	83,8	27	1.63	41,4
1J077-12-10	1-3/16x12	5/8	3.44	87,3	32	1.77	45,0
1J077-12-12	1-3/16x12	3/4	3.75	95,3	32	1.84	46,7
1J077-16-12	1-7/16x12	3/4	3.93	99,8	41	2.02	51,3
1J077-16-16	1-7/16x12	1	4.33	110,0	41	2.10	53,3
1J077-20-16	1-11/16x12	1	4.41	112,0	46	2.18	55,4
1J077-20-20	1-11/16x12	1-1/4	4.98	126,5	46	2.27	57,7
1J077-24-20	2x12	1-1/4	5.14	130,5	55	2.43	61,7

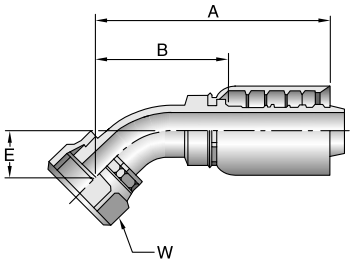
Supplied with Parker's exclusive Trap-Seal™, which leads to improved retention within Seal-Lok's™ ORFS groove and virtually eliminates costly leakage and/or time consuming pre-assembly handling.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J777

Female Seal-Lok® - Swivel - 45˚ Elbow

ISO 12151-1-SWE45



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1J777-8-8	1/2	13/16x16	1/2	2.86	72,7	0.59	15	24	1.64	41,8
1J777-10-8	5/8	1x14	1/2	2.97	75,5	0.63	16	30	1.75	44,6
1J777-10-10	5/8	1x14	5/8	3.40	86,0	0.63	16	30	2.05	52,0
1J777-12-12	3/4	1-3/16x12	3/4	4.39	111,4	0.83	21	36	2.75	70,0
1J777-16-16	1	1-7/16x12	1	4.79	121.7	0.94	24	41	2.84	72,1
1J777-20-16	1-1/4	1-11/16x12	1	4.80	121,8	0.98	25	50	2.85	72,3
1J777-20-20	1-1/4	1-11/16x12	1-1/4	5.64	143,2	0.98	25	50	3.36	85,5
1J777-24-24	1-1/2	2x12	1-1/2	6.82	173.35	1.65	42	60	4.44	112.65

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

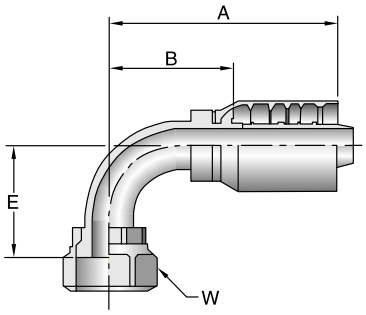
Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1J977

Female Seal-Lok® - Swivel - 90˚ Elbow - Short Drop

ISO 12151-1-SWES90

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1J977-8-8	1/2	13/16x16	1/2	2.78	70,7	1.14	29	24	1.56	39,7
1J977-10-8	5/8	1x14	1/2	2.77	70,5	1.26	32	30	1.55	39,5
1J977-10-10	5/8	1x14	5/8	3.21	81,5	1.26	32	30	1.86	47,3
1J977-12-8	3/4	1-3/16x12	1/2	2.77	70,5	1.89	48	36	1.55	39,5
1J977-12-10	3/4	1-3/16x12	5/8	3.21	81,5	1.89	48	36	1.86	47,3
1J977-12-12	3/4	1-3/16x12	3/4	4.24	107,6	1.89	48	36	2.60	66,1
1J977-16-12	1	1-7/16x12	3/4	4.23	107,4	2.20	56	41	2.59	65,9
1J977-16-16	1	1-7/16x12	1	4.65	118,1	2.20	56	41	2.70	68,6
1J977-16-20	1	1-7/16x12	1-1/4	5.05	128,3	2.20	56	41	2.78	70,6
1J977-20-16	1-1/4	1-11/16x12	1	4.65	118,1	2.52	64	50	2.70	68,6
1J977-20-20	1-1/4	1-11/16x12	1-1/4	5.35	136,0	2.52	64	50	3.08	78,3



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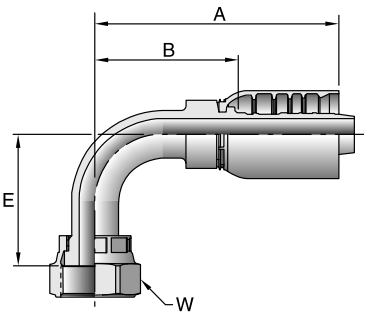
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J577

Female Seal-Lok® - Swivel - 90˚ Elbow - Medium Drop

ISO 12151-1 - SWEM90

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm	Additional Material Stainless Steel (C)
1J577-8-8	1/2	13/16x16	1/2	2.77	70,5	1.61	41	24	1.55	39,5	
1J577-10-10	5/8	1x14	5/8	4.11	104,4	1.85	57	30	2.76	70,1	
1J577-12-12	3/4	1-3/16x12	3/4	4.24	107,6	2.28	58	36	2.60	66,1	
1J577-16-12	1	1-7/16x12	3/4	4.23	107,5	2.80	71	41	2.60	66,0	
1J577-16-16	1	1-7/16x12	1	4.65	118,1	2.80	71	41	2.70	68,6	
1J577-20-20	1-1/4	1-11/16x12	1-1/4	5.35	136,0	3.07	78	50	3.08	78,3	
1J577-20-20C	1-1/4	1-11/16x12	1-1/4	6.20	157,5	3.07	78	50	3.93	99,8	•
1J577-24-24	1-1/2	2x12	1-1/2	6.24	158.45	3.39	86	60	3.85	97.75	•



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

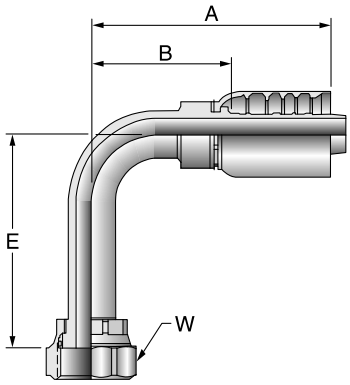
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1J177

Female Seal-Lok® - Swivel - 90° Elbow - Long Drop

ISO 12151-1-SWEL90



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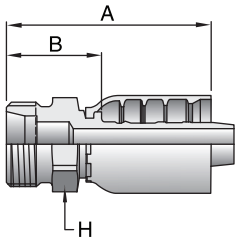
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm	Additional Material Stainless Steel (C)
1J177-8-8	13/16x16	1/2	2.77	70,5	2.52	64	24	1.55	39,5	
1J177-10-10	1x14	5/8	3.21	81,5	2.76	70	30	1.86	47,3	
1J177-12-10	1-3/16x12	5/8	3.21	81,5	3.78	96	36	1.86	47,3	
1J177-12-12	1-3/16x12	3/4	4.23	107,4	3.78	96	36	2.59	65,9	
1J177-16-12	1-7/16x12	3/4	4.23	107,4	4.49	114	41	2.59	65,9	
1J177-16-16	1-7/16x12	1	4.65	118,1	4.49	114	41	2.70	68,6	
1J177-20-16	1-11/16x12	1	4.65	118,1	5.08	129	50	2.70	68,6	
1J177-20-20	1-11/16x12	1-1/4	5.35	136,0	5.08	129	50	3.08	78,3	
1J177-20-20C	1-11/16x12	1-1/4	6.29	159,8	5.08	129	50	4.02	102,1	•

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1D277

Male Metric S - Rigid - (24° Cone)

End Connection per ISO 8434-1-BHS



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# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1D277-16-8	M24x1,5	1/2	2.53	64,4	24	1.31	33,4
1D277-20-10	M30x2	5/8	2.85	72,4	30	1.50	38,1
1D277-20-12	M30x2	3/4	3.29	83,6	30	1.66	42,1
1D277-25-12	M36x2	3/4	3.39	86,3	36	1.76	44,8
1D277-30-16	M42x2	1	3.91	99,3	46	1.96	49,8
1D277-38-20	M52x2	1-1/4	4.50	114,3	55	2.23	56,6

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

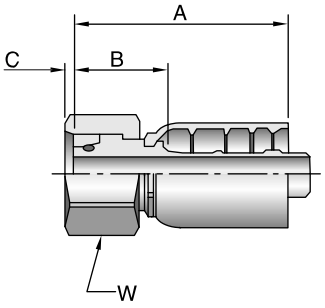
Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1C977

Female Metric S - Swivel - (24˚ Cone with O-Ring)

ISO 12151-2-SWS

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm	Additional Material Stainless Steel (C)
1C977-12-8	12	M20x1,5	1/2	2.39	60,8	0.03	1,0	24	1.17	29,8	
1C977-16-8	16	M24x1,5	1/2	2.34	59,5	0.09	2,0	30	1.12	28,5	•
1C977-16-10	16	M24x1,5	5/8	2.64	67,0	0.09	2,0	30	1.29	32,8	
1C977-20-8	20	M30x2	1/2	2.46	62,5	0.05	1,3	36	1.24	31,5	
1C977-20-10	20	M30x2	5/8	2.64	67,0	0.05	1,3	36	1.29	32,8	
1C977-20-12	20	M30x2	3/4	2.97	75,5	0.05	1,3	36	1.34	34,0	•
1C977-25-12	25	M36x2	3/4	3.00	76,5	0.10	2,6	46	1.37	35,0	
1C977-25-16	25	M36x2	1	3.60	91,4	0.10	2,6	46	1.65	41,9	
1C977-30-12	30	M42x2	3/4	3.17	80,4	0.19	5,0	50	1.53	39,0	
1C977-30-16	30	M42x2	1	3.50	89,0	0.19	5,0	50	1.55	39,5	
1C977-30-20	30	M42x2	1-1/4	4.09	103,9	0.19	5,0	50	1.82	46,2	
1C977-38-20	38	M52x2	1-1/4	3.92	99,6	0.27	6,9	60	1.65	42,0	
1C977-38-24	38	M52x2	1-1/2	4.08	103,7	0.24	6,0	60	1.69	43,1	



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When measuring overall length to end of nut, B + C dimensions must be used to calculate cut-off allowance.

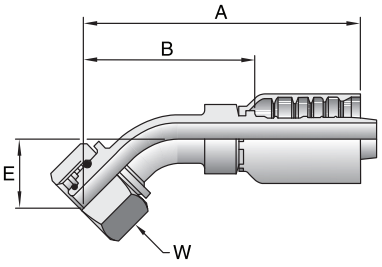
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10C77

Female Metric S - Swivel - 45˚ Elbow - (24˚ Cone with O-Ring)

ISO 12151-2-SWE-45

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
10C77-16-8	16	M24x1,5	1/2	3.28	83,4	0.93	23,5	30	2.06	52,4
10C77-20-10	20	M30x2	5/8	4.20	106,7	1.10	28,0	36	2.85	72,4
10C77-20-12	20	M30x2	3/4	4.74	120,4	1.18	30,0	36	3.10	78,8
10C77-25-12	25	M36x2	3/4	4.70	119,3	1.14	29,0	46	3.06	77,8
10C77-25-16	25	M36x2	1	5.59	141,9	1.30	33,0	46	3.64	92,4
10C77-30-16	30	M42x2	1	5.58	141,8	1.30	33,0	50	3.63	92,3
10C77-38-20	38	M52x2	1-1/4	6.60	167,7	1.44	36,5	60	4.33	110,0
10C77-38-24	38	M52x2	1-1/2	7.09	180.05	1.93	49,0	60	4.70	119.35



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

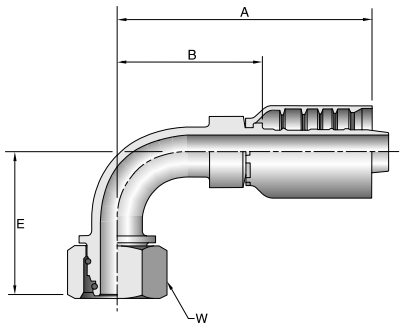
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

11C77

Female Metric S - Swivel - 90˚ Elbow - (24˚ Cone with O-Ring)

ISO 12151-2-SWE



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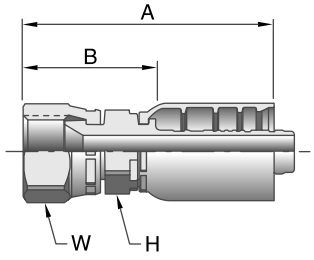
# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
11C77-16-8	M24x1,5	1/2	3.02	76,6	1.77	45	30	1.80	45,6
11C77-20-10	M30x2	5/8	3.62	92,0	2.09	53	36	2.27	57,8
11C77-20-12	M30x2	3/4	4.25	107,9	2.36	60	36	2.61	66,4
11C77-25-12	M36x2	3/4	4.25	107,9	2.32	59	46	2.61	66,4
11C77-25-16	M36x2	1	4.65	118,1	2.75	70	46	2.70	68,6
11C77-30-16	M42x2	1	5.16	131,0	2.72	69	50	3.21	81,6
11C77-38-20	M52x2	1-1/4	6.28	159,5	3.07	78	60	4.01	101,8
11C77-38-24	M52x2	1-1/2	6.24	158.45	3.98	101	60	3.85	97.75

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1FU77

Female BSP Parallel Pipe - Swivel - (30˚ Flare)

B8363 Code F



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1FU77-8-8	1/2x14	1/2	2.89	73,4	22	27	1.67	42,4
1FU77-12-12	3/4x14	3/4	3.71	94,1	32	36	2.07	52,6
1FU77-16-16	1x11	1	4.31	109,5	41	41	2.36	60,0
1FU77-20-20	1-1/4x11	1-1/4	4.88	123,9	50	50	2.60	66,1
1FU77-24-24	1-1/2x11	1-1/2	5.42	137,7	60	60	3.03	77,1

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

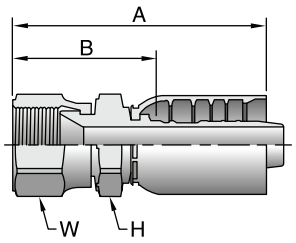
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1KU77

Female Metric - Swivel - (30˚ Flare)

# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1KU77-10-10	M24x1,5	5/8	3.44	87,5	32	32	2.09	53,2
1KU77-12-12	M30x1,5	3/4	3.79	96,3	36	36	2.16	54,8
1KU77-16-16	M33x1,5	1	4.61	117,1	41	41	2.66	67,6



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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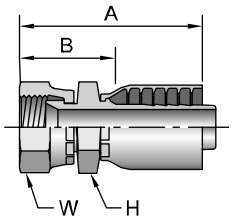
1MU77

Female Metric - Swivel - (30˚ Flare)

# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1MU77-8-8	M22x1,5	1/2	2.89	73,4	22	27	1.67	42,4



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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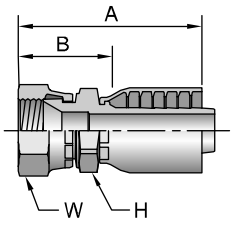
1XU77

Female Metric - Swivel - (30˚ Flare)

# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1XU77-10-10	M24x1,5	5/8	3.44	87,5	30	32	2.09	53,2
1XU77-12-12	M30x1,5	3/4	3.93	99,7	32	36	2.29	58,3
1XU77-16-16	M33x1,5	1	4.55	115,6	36	41	2.60	66,1
1XU77-20-20	M36x1,5	1-1/4	5.18	131,4	46	46	2.90	73,7
1XU77-24-24	M42x1,5	1-1/2	5.65	143,4	50	55	3.26	82,7



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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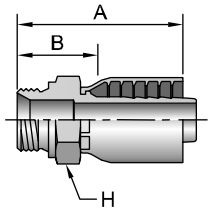
See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1D977

Male BSP Parallel Pipe - Rigid - (60˚ Cone)



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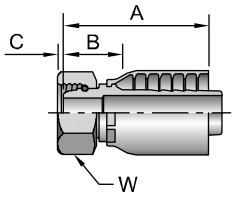
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1D977-12-12	3/4x14A	3/4	3.43	87,0	32	1.79	45,6

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

19277

Female BSP Parallel Pipe - Swivel - (60˚ Cone)



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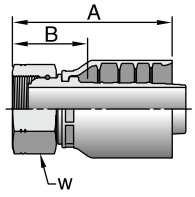
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm
19277-12-12	3/4x12	3/4	2.86	72,6	0.35	8,9	32	1.22	31,1
19277-24-24	1-1/2x11	1-1/2	4.07	103,4	0.45	11,5	55	1.68	42,7
19277-32-32	2x11	2	4.93	125,1	0.50	13,3	70	2.17	55,1

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1EA77

Female BSP Parallel Pipe - Swivel - (60˚ Cone with O-Ring)



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	W mm	B inch	B mm
1EA77-24-24	1-1/2x11	1-1/2	4.05	102,9	55	1.66	42,2
1EA77-32-32	2x11	2	4.63	117,7	70	1.88	47,8

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

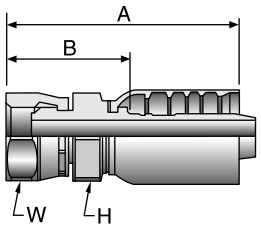
Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1GU77

Female BSP Parallel Pipe - Swivel - (60° Cone)

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1GU77-8-8	1/2x14	1/2	2.97	75,5	27	27	1.75	44,5
1GU77-12-12	3/4x14	3/4	3.74	94,9	36	36	2.10	53,4
1GU77-16-16	1x11	1	4.33	110,0	41	41	2.38	60,5
1GU77-20-20	1-1/4x11	1-1/4	4.91	124,7	46	50	2.64	67,0
1GU77-24-24	1-1/2x11	1-1/2	5.49	139,3	60	60	3.09	78,6
1GU77-32-32	2x11	2	6.04	153,4	70	70	3.28	83,4

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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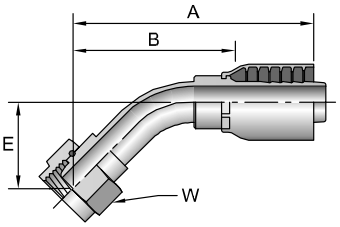
1B177

Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
1B177-16-16	1x11	1	5.71	145,0	1.42	36	41	3.76	95,5

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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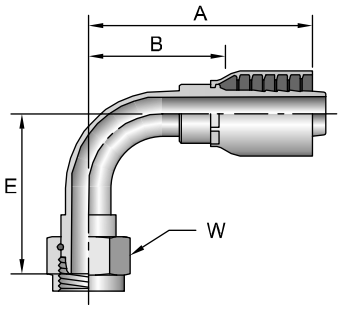
See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

1B277

Female BSP Parallel Pipe - Swivel - 90˚ Elbow (60˚ Cone)



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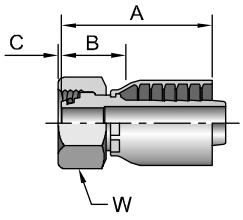
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm	Additional Material Stainless Steel (C)
1B277-12-12	3/4x14	3/4	4.26	108,1	2.17	55,0	32	2.62	66,6	•
1B277-16-16	1x11	1	4.65	118,1	2.89	73,5	41	2.70	68,6	

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1CA77

Female Metric L - Swivel - (24° Cone with O-Ring)



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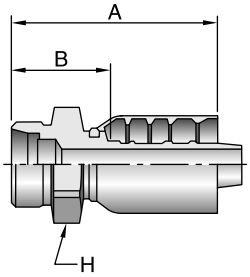
# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	C mm	W mm	B inch	B mm
1CA77-22-12	M30x2	3/4	2.86	72,6	0.15	36	1.22	31,1
1CA77-28-16	M36x2	1	3.52	89,4	0.08	41	1.57	39,9
1CA77-35-20	M45x2	1-1/4	3.95	100,4	0.06	50	1.68	42,6
1CA77-42-24	M52x2	1-1/2	4.18	106,2	0.14	60	1.79	45,5

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1ZM77

Male 24° Cone Metric - Rigid



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# Part Number	Thread mm	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1ZM77-22-10	M30x1,5	5/8	2.83	71,8	36	1.48	37,6
1ZM77-22-12	M30x1,5	3/4	3.17	80,4	36	1.53	39,0
1ZM77-28-12	M36x1,5	3/4	3.38	85,8	41	1.74	44,3
1ZM77-28-16	M36x1,5	1	3.77	95,8	41	1.82	46,2
1ZM77-35-16	M45x1,5	1	3.85	97,8	50	1.90	48,3

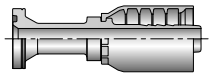
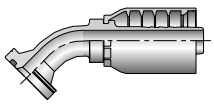
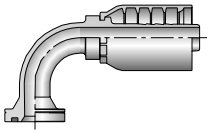
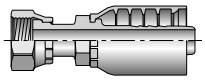
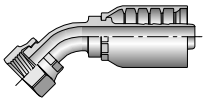
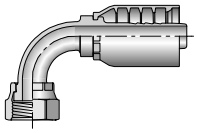
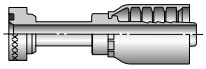
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See Accessories Section for O-Rings and Flange Kits.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: 387/TC/ST, 487/TC/ST, 787/TC/ST, 797/TC/ST

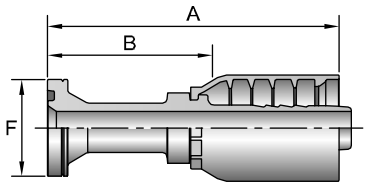
79 Series Fittings

Code 62 Flange	**16A79** **182**  *Flange*	**16F79** **182**  *45˚ Elbow*	**16N79** **182**  *90˚ Elbow*	***Seal-Lok® (O-Ring Face Seal)***	**1JS79** **183**  *Female - Swivel Long*
1J779 **183**  *Female - Swivel 45˚ Elbow*	**1J979** **184**  *Female - Swivel 90˚ Elbow - Short*	***Flange Head***	**1XA79** **184**  *Flange Head*		

16A79

SAE Code 62 Flange Head

ISO 12151-3 - S - S



view on web page

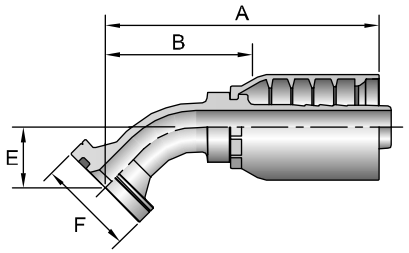
# Part Number	Flange inch	Hose I.D inch	A inch	A mm	F inch	B inch	B mm
16A79-12-12	3/4	3/4	4.90	124	1-5/8	2.84	72
16A79-16-16	1	1	5.48	139	1-7/8	3.31	84
16A79-20-16	1-1/4	1	4.28	109	2-1/8	2.11	54
16A79-20-20	1-1/4	1-1/4	6.09	155	2-1/8	3.41	87
16A79-24-24	1-1/2	1-1/2	7.11	181	1-1/2	4.07	103

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

16F79

SAE Code 62 Flange Head - 45˚ Elbow

ISO 12151-3 - E45S - S (1 Piece: ISO 12151-3 - E45M - S)



view on web page

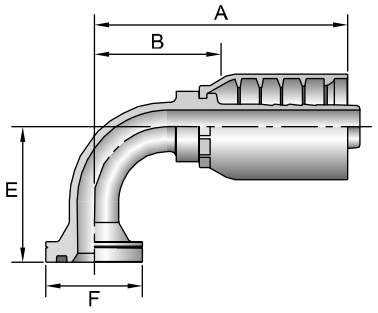
# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
16F79-16-16	1	1	5.33	135	1.26	32	1-7/8	3.16	80
16F79-20-20	1-1/4	1-1/4	6.77	1/2	1.50	38	2-1/8	4.09	104

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

16N79

SAE Code 62 Flange Head - 90˚ Elbow

ISO 12151-3 - E90S - S (1 Piece: ISO 12151-3 - E90M - S)



view on web page

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
16N79-12-12	3/4	3/4	4.27	108	2.28	58	1-5/8	2.21	56
16N79-16-12	1	3/4	4.27	108	2.28	58	1-7/8	2.21	56
16N79-16-16	1	1	4.95	126	2.76	70	1-7/8	2.78	71
16N79-20-16	1-1/4	1	4.95	126	2.76	70	2-1/8	2.78	71
16N79-20-20	1-1/4	1-1/4	6.31	160	3.54	90	2-1/8	3.63	92
16N79-24-24	1-1/2	1-1/2	7.50	190	4.09	104	2-1/2	4.46	113

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

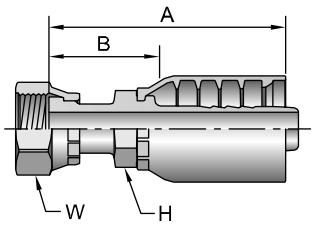
See Accessories Section for O-Rings and Flange Kits.

1JS79

Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
1JS79-12-12	3/4	1-3/16x12	3/4	3.99	101	1-1/8	1-3/8	1.93	49
1JS79-16-12	1	1-7/16x12	3/4	4.26	108	1-3/8	1-5/8	2.20	56
1JS79-16-16	1	1-7/16x12	1	4.45	113	1-3/8	1-5/8	2.28	58
1JS79-20-16	1-1/4	1-11/16x12	1	4.32	110	1-3/4	1-7/8	2.15	55
1JS79-20-20	1-1/4	1-11/16x12	1-1/4	5.00	127	1-3/4	1-7/8	2.32	59
1JS79-24-24	1-1/2	2x12	1-1/2	5.28	134	2	2-1/4	2.24	57



view on web page

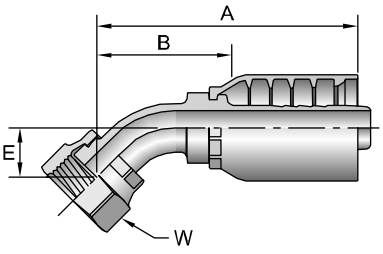
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J779

Female Seal-Lok® - Swivel - 45˚ Elbow

ISO 12151-1 - SWE45

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J779-12-12	3/4	1-3/16x12	3/4	4.40	112	0.83	21	1-3/8	2.34	59
1J779-16-16	1	1-7/16x12	1	5.01	127	0.94	24	1-5/8	2.84	72
1J779-20-20	1-1/4	1-11/16x12	1-1/4	6.15	156	1.00	25	1-7/8	3.49	89



view on web page

See Accessories Section for O-Rings and Flange Kits.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

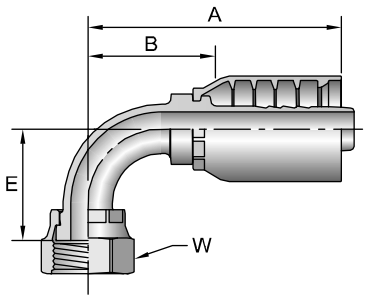
Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: F42

1J979

Female Seal-Lok® - Swivel - 90˚ Elbow - Short Drop

ISO - 12151-1 - SWES90



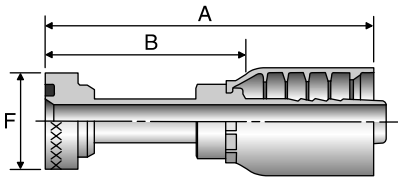
view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J979-12-12	3/4	1-3/16x12	3/4	4.27	108	1.88	48	1-3/8	2.21	56
1J979-16-16	1	1-7/16x12	1	4.95	126	2.21	56	1-5/8	2.78	71

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1XA79

Caterpillar® Flange Head



view on web page

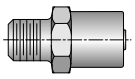
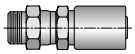
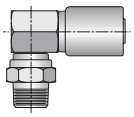
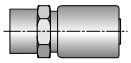
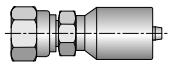
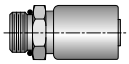
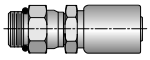
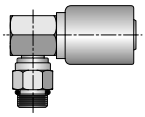
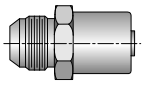
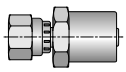
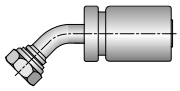
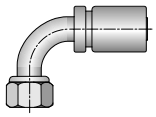
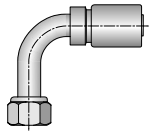
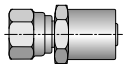
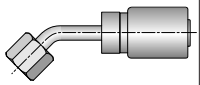
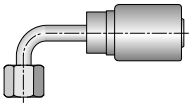
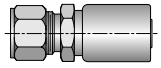
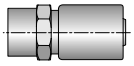
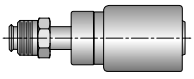
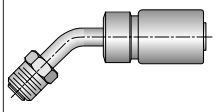
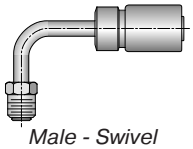
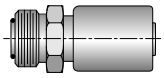
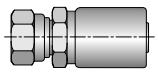
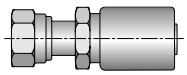
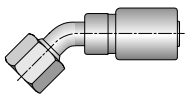
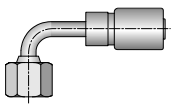
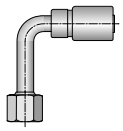
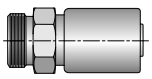
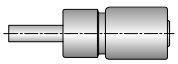
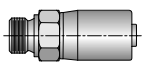
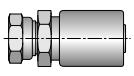
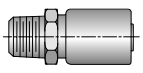
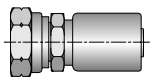
# Part Number	Flange inch	Hose I.D inch	A inch	A mm	F inch	B inch	B mm
1XA79-16-16	1	1	5.75	146	1-7/8	3.59	91

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Refer to Pressure Rating of Hose End Connections Chart on page 482.

Use with hoses: F42

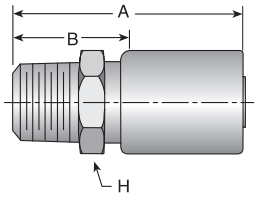
HY Series Fittings

NPTF Pipe	**101HY** 186  Male - Rigid	**113HY** 186  Male - Swivel	**11LHY** 187  Male - Swivel 90˚ Elbow	**102HY** 187  Female - Rigid	**NPSM Pipe**
107HY 187  Female - Swivel (60˚ Cone)	**Straight Thread**	**105HY** 188  Male - Rigid	**10GHY** 188  Male - Swivel	**10LHY** 189  Male - Swivel 90˚ Elbow	**JIC 37˚**
103HY 189  Male - Rigid	**106HY** 190  Female - Swivel	**137HY** 191  Female - Swivel 45˚ Elbow - Short	**139HY** 191  Female - Swivel 90˚ Elbow - Short	**141HY** 192  Female - Swivel 90˚ Elbow - Long	**SAE 45˚**
108HY 192  Female - Swivel	**177HY** 193  Female - Swivel 45˚ Elbow	**179HY** 193  Female - Swivel 90˚ Elbow	**Flareless**	**111HY** 193  Male - Rigid	**Grease Connection**
1GJHY 194  Female - Rigid	**Inverted Flare**	**128HY** 194  Male - Swivel	**167HY** 194  Male - Swivel 45˚ Elbow	**169HY** 195  Male - Swivel 90˚ Elbow	**Seal-Lok® (O-Ring Face Seal)**
1J0HY 195  Male - Rigid w/O-Ring	**1JCHY** 195  Female - Swivel Short	**1JSHY** 196  Female - Swivel Long	**1J7HY** 196  Female - Swivel 45˚ Elbow	**1J9HY** 197  Female - Swivel 90˚ Elbow - Short	**1J1HY** 197  Female - Swivel 90˚ Elbow - Long
Metric L & S	**1D0HY** 198  Male - Rigid	**13DHY** 198  Male Standpipe Rigid	**BSP**	**1D9HY** 198  Male - Rigid	**1GUHY** 199  Female - Swivel
1UTHY 199  Male - Rigid	**1XUHY** 199  Female - Metric Swivel				

Use with hoses: 801, 836, 611HT

101HY

Male NPTF Pipe - Rigid



view on web page

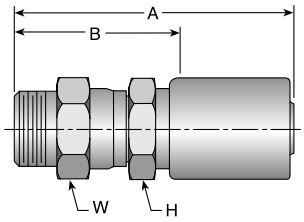
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm	Additional Material Stainless Steel (C)
101HY-2-4	1/8x27	1/4	2.34	59	5/8	1.00	25	
101HY-4-4	1/4x18	1/4	2.53	64	9/16	1.19	30	•
101HY-4-5	1/4x18	5/16	2.56	65	11/16	1.22	31	
101HY-4-6	1/4x18	3/8	2.55	65	11/16	1.19	30	
101HY-6-4	3/8x18	1/4	2.53	64	3/4	1.19	30	
101HY-6-5	3/8x18	5/16	2.56	65	3/4	1.22	31	
101HY-6-6	3/8x18	3/8	2.55	65	3/4	1.19	30	•
101HY-6-8	3/8x18	1/2	2.72	69	7/8	1.38	35	
101HY-8-4	1/2x14	1/4	2.72	69	7/8	1.38	35	
101HY-8-6	1/2x14	3/8	2.73	69	7/8	1.38	35	
101HY-8-8	1/2x14	1/2	2.91	74	7/8	1.41	40	•
101HY-8-10	1/2x14	5/8	2.94	75	1-1/8	1.59	40	
101HY-8-12	1/2x14	3/4	3.08	78	1-1/4	1.50	38	
101HY-12-8	3/4x14	1/2	2.91	74	1-1/16	1.56	40	
101HY-12-12	3/4x14	3/4	3.08	78	1-1/4	1.50	38	•
101HY-12-16	3/4x14	1	3.23	82	1-3/8	1.63	41	
101HY-16-12	1x11-1/2	3/4	3.27	83	1-3/8	1.69	43	
101HY-16-14	1x11-1/2	7/8	3.27	83	1-3/8	1.78	43	
101HY-16-16	1x11-1/2	1	3.42	87	1-3/8	1.81	46	•
101HY-20-20	1-1/4x11-1/2	1-1/4	3.84	98	1-3/4	2.00	51	

Stainless steel fittings must be assembled with Karrykrimp 2, Phastkrimp, Superkrimp or Parkrimp 2. See CrimpSource for more information.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

113HY

Male NPTF Pipe - Swivel



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
113HY-2-4	1/8x27	1/4	2.97	75	9/16	5/8	1.63	41
113HY-4-4	1/4x18	1/4	3.06	78	9/16	5/8	1.72	44
113HY-4-6	1/4x18	3/8	3.17	81	11/16	11/16	1.81	46
113HY-6-4	3/8x18	1/4	3.13	80	5/8	11/16	1.78	45
113HY-6-6	3/8x18	3/8	3.11	79	11/16	11/16	1.75	44
113HY-6-8	3/8x18	1/2	3.31	84	7/8	7/8	1.97	50
113HY-8-6	1/2x14	3/8	3.38	86	7/8	7/8	2.03	52
113HY-8-8	1/2x14	1/2	3.50	89	7/8	7/8	2.16	55
113HY-12-12	3/4x14	3/4	3.95	100	1-1/4	1-1/4	2.38	60
113HY-16-16	1x11-1/2	1	4.23	107	1-1/2	1-1/2	2.63	67

Fitting allows minor movement under pressure to relieve stress on hose but is not to be used for continuous swiveling.
See Technical Section for Pressure Limitations.

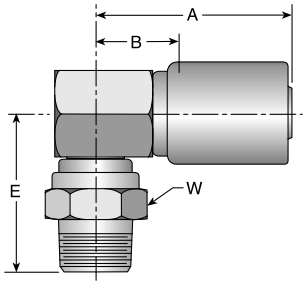
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 836, 611HT

11LHY

Male NPTF Pipe - Swivel - 90˚ Elbow

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
11LHY-2-4	1/8x27	1/4	2.31	59	1.50	38	5/8	0.97	25
11LHY-4-4	1/4x18	1/4	2.31	59	1.69	43	11/16	0.97	25
11LHY-6-6	3/8x8	3/8	2.33	59	1.63	41	11/16	0.97	25
11LHY-8-6	1/2x14	3/8	2.73	69	1.88	48	7/8	0.97	25
11LHY-8-8	1/2x14	1/2	3.00	76	1.93	49	7/8	1.09	28



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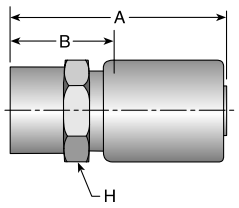
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

102HY

Female NPTF Pipe - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
102HY-2-4	1/8x27	1/4	2.34	59	5/8	1.00	25
102HY-4-4	1/4x18	1/4	2.47	63	11/16	1.13	29
102HY-4-6	1/4x18	3/8	2.48	63	11/16	1.13	29
102HY-6-6	3/8x18	3/8	2.48	63	7/8	1.13	29
102HY-8-6	1/2x14	3/8	2.75	70	1	1.41	36
102HY-8-8	1/2x14	1/2	2.84	72	1	1.50	38
102HY-12-12	3/4x14	3/4	2.83	72	1-1/4	1.25	32
102HY-16-16	1x11-1/2	1	3.27	83	1-1/2	1.66	42



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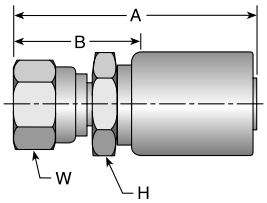
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

107HY

Female NPSM Pipe - Swivel - (60˚ Cone)

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
107HY-4-4	1/4x18	1/4	2.66	68	9/16	11/16	1.31	33
107HY-6-4	3/8x18	1/4	2.72	69	3/4	7/8	1.38	35
107HY-6-6	3/8x18	3/8	2.55	65	3/4	7/8	1.19	30
107HY-8-8	1/2x14	1/2	2.91	74	1	1	1.56	40
107HY-12-12	3/4x14	3/4	3.22	82	1-1/4	1-1/4	1.66	42
107HY-16-16	1x11-1/2	1	3.39	86	1-3/8	1-1/2	1.78	45



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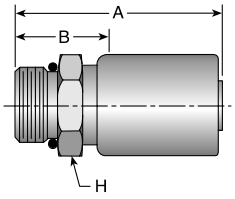
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 836, 611HT

105HY

Male SAE Straight Thread with O-Ring - Rigid



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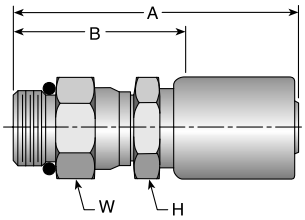
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
105HY-4-4	7/16x20	1/4	2.33	59	9/16	0.97	25
105HY-6-4	9/16x18	1/4	2.42	61	11/16	1.06	27
105HY-6-6	9/16x18	3/8	2.38	60	11/16	1.03	26
105HY-8-6	3/4x16	3/8	2.42	61	7/8	1.06	27
105HY-8-8	3/4x16	1/2	2.59	66	7/8	1.25	32
105HY-10-8	7/8x14	1/2	2.66	68	1	1.31	33
105HY-10-10	7/8x14	5/8	2.80	71	1-1/8	1.41	36
105HY-12-8	1-1/16x12	1/2	2.81	71	1-1/4	1.47	37
105HY-12-12	1-1/16x12	3/4	2.92	74	1-1/4	1.34	34
105HY-16-12	1-5/16x12	3/4	2.92	74	1-1/2	1.34	34
105HY-16-16	1-5/16x12	1	3.08	78	1-1/2	1.47	37

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

10GHY

Male SAE Straight Thread with O-Ring - Swivel



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
10GHY-4-4	7/16x20	1/4	3.00	76	9/16	5/8	1.66	42
10GHY-6-6	9/16x18	3/8	3.14	80	11/16	11/16	1.78	45
10GHY-8-6	3/4x16	3/8	3.24	82	13/16	7/8	1.88	48
10GHY-8-8	3/4x16	1/2	3.36	85	7/8	7/8	2.00	51
10GHY-10-8	7/8x14	1/2	3.44	87	1	1	2.09	53
10GHY-12-8	1-1/16x12	1/2	3.66	93	1-1/4	1-1/4	2.31	59
10GHY-16-16	1-5/16x12	1	3.95	100	1-3/8	1-1/2	2.34	59

Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on extensive or continuous swiveling.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

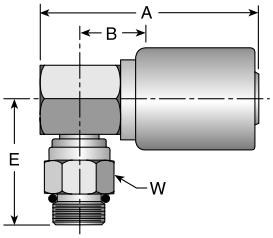
O-Ring not compatible with Phosphate Ester fluids.

Use with hoses: 801, 836, 611HT

10LHY

Male SAE Straight Thread with O-Ring - Swivel - 90˚ Elbow

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
10LHY-6-4	9/16x18	1/4	2.31	59	1.66	42	7/8	0.97	25
10LHY-6-6	9/16x18	3/8	2.33	59	1.66	42	11/16	0.97	25
10LHY-8-6	3/4x16	3/8	2.33	59	1.73	44	7/8	0.97	25
10LHY-8-8	3/4x16	1/2	3.00	76	1.80	46	7/8	1.09	28
10LHY-10-8	7/8x14	1/2	3.00	76	1.88	48	1	1.09	28
10LHY-12-12	1-1/16x12	3/4	2.77	70	2.23	57	1-1/4	1.19	30



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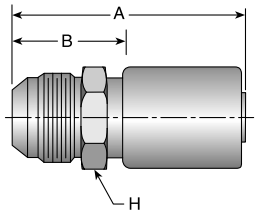
Fitting allows minor movement under pressure to relieve stress on hose but is not to be used on extensive or continuous swiveling.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

103HY

Male JIC 37˚ - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
103HY-4-4	7/16x20	1/4	2.52	64	5/8	1.19	30
103HY-5-4	1/2x20	1/4	2.52	64	5/8	1.19	30
103HY-6-4	9/16x18	1/4	2.53	64	11/16	1.19	30
103HY-6-5	9/16x18	5/16	2.56	65	11/16	1.22	31
103HY-6-6	9/16x18	3/8	2.54	65	11/16	1.19	30
103HY-8-6	3/4x16	3/8	2.64	67	13/16	1.28	33
103HY-8-8	3/4x16	1/2	2.81	71	7/8	1.47	37
103HY-10-6	7/8x14	3/8	2.81	71	1	1.47	37
103HY-10-8	7/8x14	1/2	2.91	74	1	1.56	40
103HY-10-10	7/8x14	5/8	2.98	76	1-1/8	1.59	40
103HY-12-8	1-1/16x12	1/2	3.02	77	1-1/8	1.66	42
103HY-12-10	1-1/16x12	5/8	3.09	78	1-1/8	1.72	44
103HY-12-12	1-1/16x12	3/4	3.19	81	1-1/4	1.63	41
103HY-14-12	1-3/16x12	3/4	3.19	81	1-1/4	1.63	41
103HY-16-12	1-5/16x12	3/4	3.23	82	1-3/8	1.66	42
103HY-16-16	1-5/16x12	1	3.39	86	1-3/8	1.78	45



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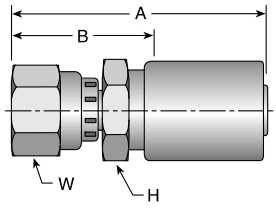
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 836, 611HT

106HY

Female JIC 37˚ - Swivel



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm	Additional Material Stainless Steel (C)
106HY-3-4	3/8x24	1/4	2.58	66	9/16	1/2	1.22	31	
106HY-4-4	7/16x20	1/4	2.60	66	9/16	9/16	1.25	32	•
106HY-4-6	7/16x20	3/8	2.67	68	3/4	9/16	1.31	33	
106HY-5-4	1/2x20	1/4	2.65	67	9/16	5/8	1.31	33	
106HY-5-5	1/2x20	5/16	2.69	68	5/8	5/8	1.34	34	
106HY-5-6	1/2x20	3/8	2.73	69	3/4	5/8	1.38	35	
106HY-6-4	9/16x18	1/4	2.67	68	9/16	11/16	1.31	33	
106HY-6-5	9/16x18	5/16	2.70	69	5/8	11/16	1.34	34	
106HY-6-6	9/16x18	3/8	2.69	68	11/16	11/16	1.34	34	•
106HY-8-6	3/4x16	3/8	2.72	69	7/8	7/8	1.38	35	
106HY-8-8	3/4x16	1/2	2.90	74	7/8	7/8	1.41	40	•
106HY-8-10	3/4x16	5/8	2.98	76	1-1/8	7/8	1.59	40	
106HY-8-12	3/4x16	3/4	3.08	78	1-1/4	7/8	1.53	39	
106HY-10-6	7/8x14	3/8	2.81	71	7/8	1	1.47	37	
106HY-10-8	7/8x14	1/2	2.98	76	1	1	1.63	41	
106HY-10-10	7/8x14	5/8	3.06	78	1-1/8	1	1.69	43	
106HY-10-12	7/8x14	3/4	3.16	80	1-1/4	1	1.59	40	
106HY-12-8	1-1/16x12	1/2	3.05	77	1-1/8	1-1/4	1.69	43	
106HY-12-10	1-1/16x12	5/8	3.12	79	1-1/8	1-1/4	1.75	44	
106HY-12-12	1-1/16x12	3/4	3.22	82	1-1/4	1-1/4	1.66	42	•
106HY-12-16	1-1/16x12	1	3.38	86	1-3/8	1-1/4	1.75	44	
106HY-14-12	1-3/16x12	3/4	3.23	82	1-1/4	1 3/8	1.66	42	
106HY-16-12	1-5/16x12	3/4	3.30	84	1-3/8	1-1/2	1.72	44	
106HY-16-14	1-5/16x12	7/8	3.30	84	1-3/8	1-1/2	1.72	44	
106HY-16-16	1-5/16x12	1	3.45	88	1-3/8	1-1/2	1.84	47	•
106HY-20-16	1-5/8x12	1	3.70	94	1-3/4	2	2.09	53	
106HY-20-20	1-5/8x12	1-1/4	4.09	104	2	2	2.25	57	

Stainless steel fittings must be assembled with Karrykrimp 2, PHastkrimp, Superkrimp or Parkrimp 2.
See CrimpSource for more information.

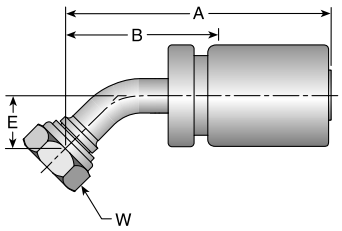
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 836, 611HT

137HY

Female JIC 37˚ - Swivel - 45˚ Elbow - Short Drop

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
137HY-4-4	7/16x20	1/4	2.59	66	0.39	10	9/16	1.32	34
137HY-6-4	9/16x18	1/4	2.70	69	0.43	10	3/4	1.43	36
137HY-6-6	9/16x18	3/8	2.72	69	0.43	11	11/16	1.44	37
137HY-8-6	3/4x16	3/8	2.88	73	0.58	15	7/8	1.60	41
137HY-8-8	3/4x16	1/2	3.10	79	0.59	15	7/8	1.81	46
137HY-10-8	7/8x14	1/2	3.20	81	0.63	16	1	1.91	49
137HY-10-10	7/8x14	5/8	3.29	84	0.63	16	1	1.93	49
137HY-12-12	1-1/16x12	3/4	3.82	97	0.83	21	1-1/4	2.29	58
137HY-16-16	1-5/16x12	1	4.31	109	0.89	23	1-1/2	2.69	68



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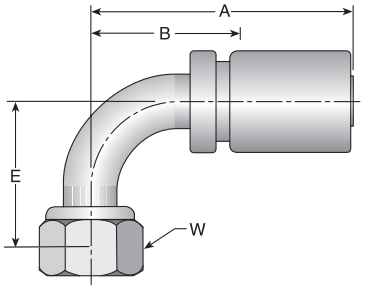
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

139HY

Female JIC 37˚ - Swivel - 90˚ Elbow - Short Drop

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
139HY-4-4	7/16x20	1/4	2.40	61	0.83	21	9/16	1.13	29
139HY-5-4	1/2x20	1/4	2.50	64	0.83	21	5/8	1.23	31
139HY-6-4	9/16x18	1/4	2.65	67	0.91	23	3/4	1.38	35
139HY-6-6	9/16x18	3/8	2.57	65	0.91	23	11/16	1.29	33
139HY-8-6	3/4x16	3/8	2.64	67	1.14	29	7/8	1.37	35
139HY-8-8	3/4x16	1/2	2.85	72	1.14	29	7/8	1.56	40
139HY-10-8	7/8x14	1/2	3.01	76	1.26	32	1	1.72	44
139HY-10-10	7/8x14	5/8	3.09	78	1.26	32	1	1.73	44
139HY-12-10	1-1/16x12	5/8	3.61	92	1.89	48	1-1/4	2.25	57
139HY-12-12	1-1/16x12	3/4	3.68	93	1.89	48	1-1/4	2.15	55
139HY-16-12	1-5/16x12	3/4	4.33	110	2.14	54	1-1/2	2.78	71
139HY-16-16	1-5/16x12	1	4.31	109	2.31	59	1-1/2	2.69	68



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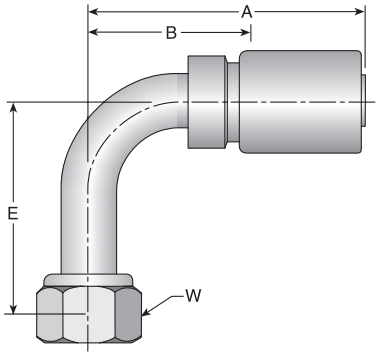
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 836, 611HT

141HY

Female JIC 37˚ - Swivel - 90˚ Elbow - Long Drop



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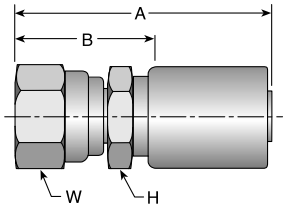
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
141HY-4-4	7/16x20	1/4	2.68	68	1.81	46	9/16	1.41	36
141HY-6-4	9/16x18	1/4	2.89	73	2.13	54	11/16	1.62	41
141HY-6-6	9/16x18	3/8	2.76	70	2.13	54	11/16	1.49	39
141HY-8-6	3/4x16	3/8	2.85	72	2.52	64	7/8	1.58	40
141HY-8-8	3/4x16	1/2	2.89	73	2.52	64	7/8	1.60	41
141HY-10-8	7/8x14	1/2	3.01	76	2.76	70	1	1.72	44
141HY-12-12	1-1/16x12	3/4	3.59	91	3.73	95	1-1/4	2.03	52
141HY-16-16	1-5/16x12	1	4.56	116	4.33	110	1-1/2	2.94	75

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

108HY

Female SAE 45˚ - Swivel



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
108HY-5-5	1/2x20	5/16	2.68	68	5/8	5/8	1.34	34
108HY-6-4	5/8x18	1/4	2.73	69	11/16	3/4	1.38	35
108HY-6-5	5/8x18	5/16	2.76	70	5/8	3/4	1.41	36
108HY-6-6	5/8x18	3/8	2.75	70	11/16	3/4	1.41	36
108HY-8-8	3/4x16	1/2	2.90	74	7/8	7/8	1.56	40
108HY-8-12	3/4x16	3/4	3.17	81	1-1/4	7/8	1.59	40
108HY-12-12	1-1/16x12	3/4	3.41	87	1-1/4	1-1/4	1.84	47

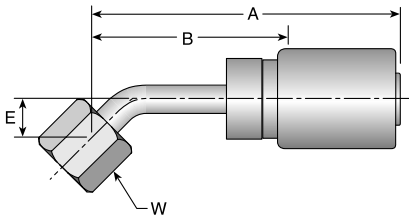
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 836, 611HT

177HY

Female SAE 45˚ - Swivel - 45˚ Elbow

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
177HY-12-12	1-1/16x14	3/4	4.03	102	0.77	20	1-1/4	2.44	62



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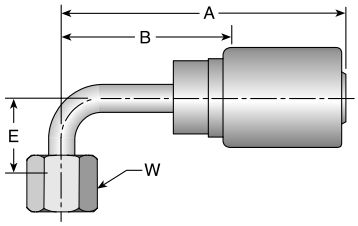
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

179HY

Female SAE 45˚ - Swivel - 90˚ Elbow

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
179HY-6-6	5/8x18	3/8	3.23	82	0.86	22	3/4	1.88	48



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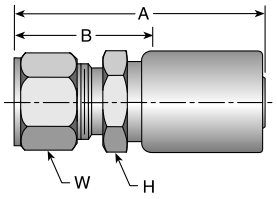
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

111HY

Male Ferulok Flareless - Rigid (24˚ Cone w/Nut and Ferrule)

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
111HY-4-4	7/16x20	1/4	2.42	61	9/16	9/16	1.06	27
111HY-6-6	9/16x18	3/8	2.45	62	11/16	11/16	1.09	28
111HY-8-6	3/4x16	3/8	2.61	66	7/8	7/8	1.25	32
111HY-8-8	3/4x16	1/2	2.72	69	7/8	7/8	1.38	35
111HY-10-8	7/8x14	1/2	2.78	71	1	1	1.44	37
111HY-12-12	1-1/16x12	3/4	3.02	77	1-1/4	1-1/4	1.44	37



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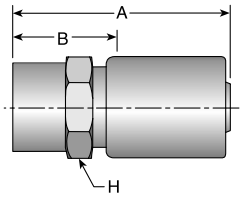
The Parker Ferrule-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy on the job repairs. For additional information see Ferrule-Fix installation instructions in the Technical Section.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 836, 611HT

1GJHY

Female Grease Connection - SPL - PTF Taper Thread - Rigid - 1/2x27



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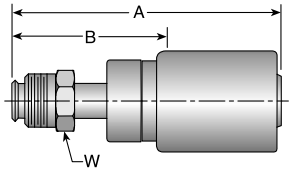
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
1GJHY-8-4	1/2x27	1/4	2.41	61	3/4	1.06	27

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

128HY

Male Inverted SAE 45˚ - Swivel



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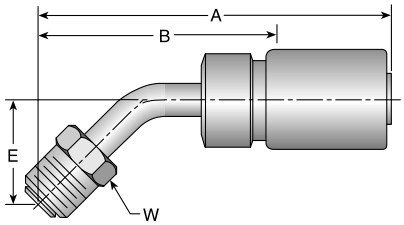
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	W inch	B inch	B mm
128HY-4-4	7/16x24	1/4	3.28	83	7/16	1.94	49
128HY-6-5	5/8x18	5/16	3.75	95	5/8	2.41	61
128HY-6-6	5/8x18	3/8	3.73	95	5/8	2.38	60

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

167HY

Male Inverted SAE 45˚ - Swivel - 45˚ Elbow



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
167HY-6-6	5/8x18	3/8	4.16	106	0.94	24	5/8	2.81	71

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

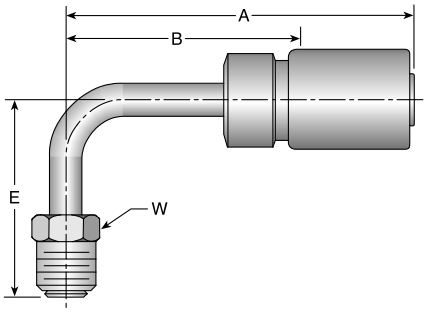
Use with hoses: 801, 836, 611HT

169HY

Male Inverted SAE 45˚ - Swivel - 90˚ Elbow

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
169HY-5-4	1/2x20	1/4	3.52	89	1.66	42	1/2	2.16	55
169HY-6-6	5/8x18	3/8	4.03	102	1.69	43	5/8	2.69	68

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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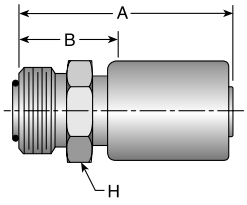
1J0HY

Male Seal-Lok® - Rigid - (with O-Ring)

SAE J516 (Apr2016)

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
1J0HY-4-4	9/16x18	1/4	2.36	60	5/8	1.00	25
1J0HY-6-6	11/16x16	3/8	2.49	63	3/4	1.13	29
1J0HY-8-8	13/16x16	1/2	2.69	68	7/8	1.34	34
1J0HY-12-8	1-3/16x12	1/2	2.91	74	1-1/4	1.56	40

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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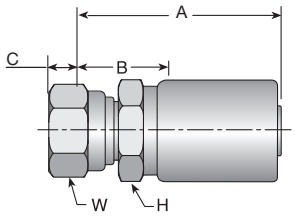
1JCHY

Female Seal-Lok® - Swivel - Short

ISO 12151-1 - SWSA

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	C inch	C mm	H inch	W inch	B inch	B mm
1JCHY-4-4	9/16x18	1/4	2.61	66	0.31	7,8	9/16	11/16	0.94	24
1JCHY-6-6	11/16x16	3/8	2.69	68	0.34	8,7	11/16	13/16	0.94	24
1JCHY-8-8	13/16x16	1/2	2.91	74	0.43	11,0	7/8	15/16	1.13	29
1JCHY-12-12	1-3/16x12	3/4	3.31	84	0.55	14,0	1-1/4	1-3/8	1.13	29

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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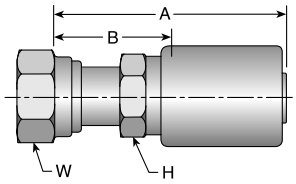
See Accessories Section for O-Rings.

Use with hoses: 801, 836, 611HT

1JSHY

Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB



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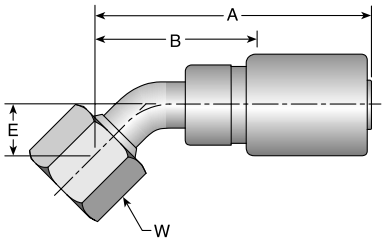
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
1JSHY-4-4	9/16x18	1/4	2.59	66	9/16	11/16	1.25	32
1JSHY-6-4	11/16x16	1/4	2.67	68	5/8	13/16	1.31	33
1JSHY-6-5	11/16x16	5/16	2.70	69	5/8	13/16	1.34	34
1JSHY-6-6	11/16x16	3/8	2.75	70	11/16	13/16	1.34	34
1JSHY-8-6	13/16x16	3/8	2.84	72	7/8	15/16	1.50	38
1JSHY-8-8	13/16x16	1/2	2.95	75	7/8	15/16	1.59	40
1JSHY-10-8	1x14	1/2	3.16	80	15/16	1-1/8	1.81	46
1JSHY-10-10	1x14	5/8	3.17	81	1-1/8	1-1/8	1.78	45
1JSHY-10-12	1x14	3/4	3.27	83	1-1/4	1-1/8	1.69	43
1JSHY-12-10	1-3/16x12	5/8	3.20	81	1-1/8	1-3/8	1.81	46
1JSHY-12-12	1-3/16x12	3/4	3.30	84	1-1/4	1-3/8	1.72	44
1JSHY-16-12	1-7/16x12	3/4	3.44	87	1-3/8	1-5/8	1.88	48
1JSHY-16-16	1-7/16x12	1	3.59	91	1-3/8	1-5/8	1.97	50
1JSHY-20-16	1-11/16x12	1	3.47	88	1-5/8	1-7/8	1.75	59
1JSHY-20-20	1-11/16x12	1-1/4	3.98	101	1-3/4	1-7/8	2.16	55

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J7HY

Female Seal-Lok® - Swivel - 45˚ Elbow

ISO 12151-1 - SWE45



view on web page

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J7HY-4-4	9/16x18	1/4	2.59	66	0.39	10	11/16	1.32	34
1J7HY-6-4	11/16x16	1/4	2.70	69	0.43	11	13/16	1.43	36
1J7HY-6-6	11/16x16	3/8	2.72	69	0.43	11	13/16	1.44	37
1J7HY-8-4	13/16x16	1/4	2.95	75	0.59	15	15/16	1.68	43
1J7HY-8-6	13/16x16	3/8	2.89	73	0.59	15	15/16	1.62	41
1J7HY-8-8	13/16x16	1/2	3.10	79	0.59	15	15/16	1.81	46
1J7HY-10-8	1x14	1/2	3.20	81	0.63	16	1-1/8	1.91	49
1J7HY-10-10	1x14	5/8	3.29	84	0.63	16	1-1/8	1.93	49
1J7HY-12-12	1-3/16x12	3/4	3.82	97	0.83	21	1-3/8	2.29	58
1J7HY-16-16	1-7/16x12	1	4.55	116	0.97	25	1-5/8	2.94	75

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See Accessories Section for O-Rings.

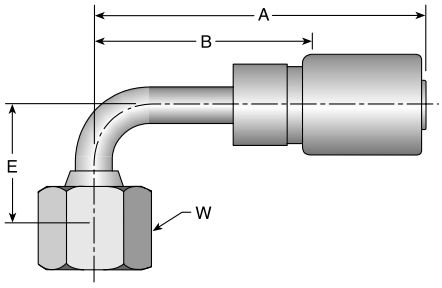
Use with hoses: 801, 836, 611HT

1J9HY

Female Seal-Lok® - Swivel - 90˚ Elbow - Short Drop

ISO 12151-1 - SWES90

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J9HY-4-4	9/16x18	1/4	2.40	61	0.83	21	11/16	1.13	29
1J9HY-4-6	9/16x18	3/8	3.08	78	0.83	21	11/16	1.72	44
1J9HY-6-4	11/16x16	1/4	2.65	67	0.91	23	13/16	1.38	35
1J9HY-6-5	11/16x16	5/16	3/14	80		23	13/16	1.72	44
1J9HY-6-6	11/16x16	3/8	2.57	65	0.91	23	13/16	1.29	33
1J9HY-8-6	13/16x16	3/8	2.64	67	1.14	29	15/16	1.37	35
1J9HY-8-8	13/16x16	1/2	2.85	72	1.14	29	15/16	1.56	40
1J9HY-10-8	1x14	1/2	3.01	76	1.26	32	1-1/8	1.72	44
1J9HY-10-10	1x14	5/8	3.09	78	1.26	32	1-1/8	1.73	44
1J9HY-10-12	1x14	3/4	3.52	89	1.33	34	1-1/8	1.97	50
1J9HY-12-10	1-3/16x12	5/8	3.61	92	1.89	48	1-3/8	2.25	57
1J9HY-12-12	1-3/16x12	3/4	3.68	93	1.89	48	1-3/8	2.15	55
1J9HY-16-12	1-7/16x12	3/4	4.27	108	2.25	57	1-5/8	2.69	68
1J9HY-16-16	1-7/16x12	1	4.45	113	2.25	57	1-5/8	2.84	72



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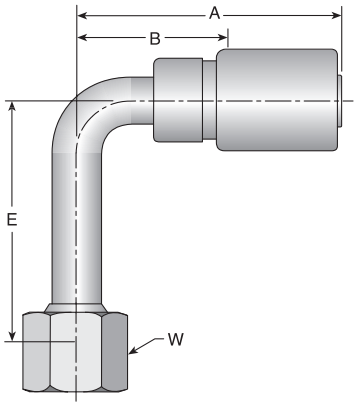
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1J1HY

Female Seal-Lok® - Swivel - 90˚ Elbow - Long Drop

ISO 12151-1 - SWEL90

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
1J1HY-4-4	9/16x18	1/4	2.68	68	1.81	46	11/16	1.41	36
1J1HY-6-6	11/16x16	3/8	2.76	70	2.13	54	13/16	1.49	38
1J1HY-8-8	13/16x16	1/2	2.94	75	2.52	64	15/16	1.65	42
1J1HY-10-10	1x14	5/8	3.42	87	2.76	70	1-1/8	2.03	52



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

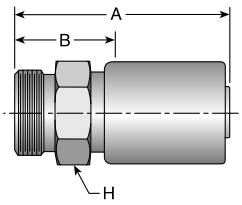
See Accessories Section for O-Rings.

Use with hoses: 801, 836, 611HT

1D0HY

Male Metric L - Rigid - (24˚ Cone)

ISO 12151-2



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# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
1D0HY-15-6	15	M22x1.5	3/8	2.52	64	24	1.16	29

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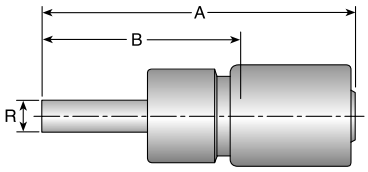
13DHY

Male Standpipe Metric S - Rigid

End Connection per ISO 8434-1-SDS



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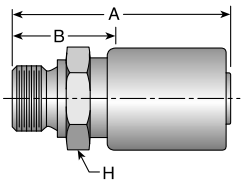
# Part Number	R mm	Hose I.D. inch	A inch	A mm	B inch	B mm
13DHY-16-8	16	1/2	3.53	90	2.16	55
13DHY-30-16	30	1	4.15	105	2.53	64

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1D9HY

Male BSP Parallel Pipe - Rigid - (60˚ Cone)

ISO 228-1



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
1D9HY-8-8	1/2x14	1/2	2.83	72	1-1/16	1.47	37

When used in a port, a bonded seal must be used.
See Accessories Section for more information.

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Metric L: Mates with EO "L" Series Fittings.
Mertic S: Mates with EO "S" Series Fittings.

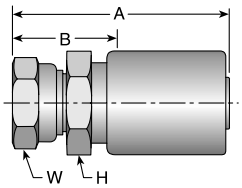
Use with hoses: 801, 836, 611HT

1GUHY

Female BSP Parallel Pipe - Swivel - (60˚ Cone)

ISO 228-1

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
1GUHY-4-4	1/4x19	1/4	2.62	67	9/16	11/16	1.28	33
1GUHY-6-4	3/8x19	1/4	2.69	68	3/4	7/8	1.34	34
1GUHY-6-6	3/8x19	3/8	2.70	69	3/4	7/8	1.34	34
1GUHY-8-6	1/2x14	3/8	2.84	72	7/8	1	1.50	38
1GUHY-8-8	1/2x14	1/2	3.02	77	7/8	1	1.66	42
1GUHY-12-12	3/4x14	3/4	3.25	83	1-1/4	1-1/4	1.69	43
1GUHY-16-16	1x11	1	3.45	88	1-3/8	1-1/2	1.84	47



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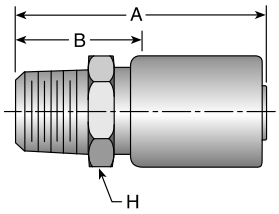
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

1UTHY

Male BSP Taper Pipe - Rigid - (60˚ Cone)

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
1UTHY-2-4	1/8x28	1/4	2.34	59	9/16	1.00	25



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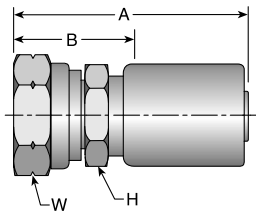
1XUHY

Female Metric Swivel - (30˚ Flare)

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	H mm	W mm	B inch	B mm
1XUHY-10-10	24	M24x1.5	5/8	3.22	82	30	30	1.84	47
1XUHY-12-12	30	M30x1.5	3/4	3.31	84	32	38	1.75	44
1XUHY-16-16	33	M33x1.5	1	3.62	92	36	41	2.00	51



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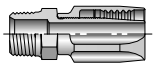
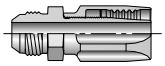
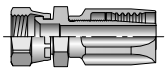
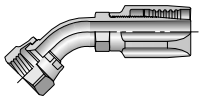
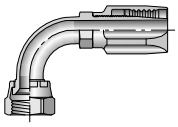
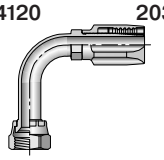
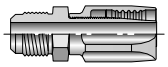
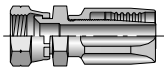
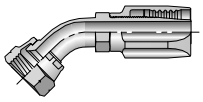
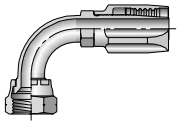
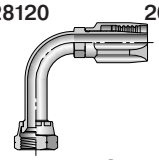
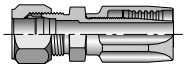
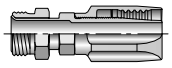
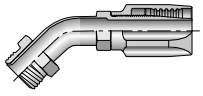
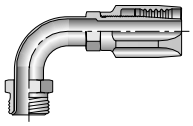
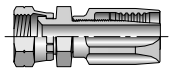
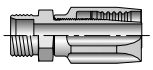
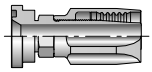
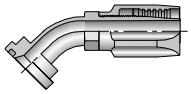
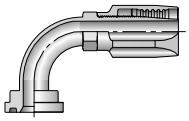
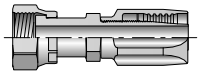
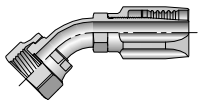
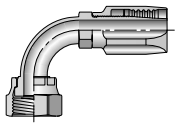
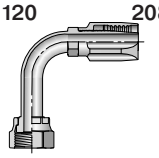
Use with hoses: 801, 836, 611HT

20 Series Fittings

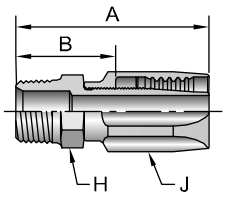
NPTF Pipe	20120 201  *Male - Rigid*	**JIC 37˚**	20320 201  *Male - Rigid*	20620 202  *Female - Swivel*	23720 202  *Female - Swivel 45˚ Elbow - Short*
23920 203  *Female - Swivel 90˚ Elbow - Short*	24120 203  *Female - Swivel 90˚ Elbow - Long*	**SAE 45˚**	20420 203  *Male - Rigid*	20820 204  *Female - Swivel*	27720 204  *Female - Swivel 45˚ Elbow*
27920 204  *Female - Swivel 90˚ Elbow*	28120 205  *Female - Swivel 90˚ Elbow - Long*	**Flareless**	21120 205  *Male - Rigid*	**Inverted Flare**	22820 205  *Male - Swivel*
26720 205  *Male - Swivel 45˚ Elbow*	26920 206  *Male - Swivel 90˚ Elbow*	**PTT 30˚**	23220 206  *Female - Swivel*	**Compression**	26120 206  *Male (without Nut or Sleeve)*
Code 61 Flange	21520 206  *Flange*	21720 206  *45˚ Elbow*	21920 207  *90˚ Elbow*	**Seal-Lok® (O-Ring Face Seal)**	2JS20 207  *Female - Swivel Long*
2J720 208  *Female - Swivel 45˚ Elbow*	2J920 208  *Female - Swivel 90˚ Elbow - Short*	2J120 208  *Female - Swivel 90˚ Elbow - Long*	**Assembly Instructions**	20 Series 209 *Assembly Instructions*	

Use with hoses: 201, 206, 266, 221FR and SS25UL

20120

Male NPTF Pipe - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	J inch	B inch	B mm	Additional Material Brass (B)
20120-2-4	1/8x27	3/16	1.72	44	7/16	5/8	0.94	24	
20120-2-5	1/8x27	1/4	1.82	46	1/2	11/16	0.99	25	
20120-4-4	1/4x18	3/16	1.93	49	9/16	5/8	1.15	29	
20120-4-5	1/4x18	1/4	2.01	51	9/16	11/16	1.18	30	
20120-4-6	1/4x18	5/16	2.11	54	9/16	13/16	1.19	30	
20120-6-6	3/8x18	5/16	2.20	56	3/4	13/16	1.28	33	
20120-6-8	3/8x18	13/32	2.48	63	3/4	15/16	1.39	35	
20120-8-8	1/2x14	13/32	2.73	69	7/8	15/16	1.64	42	
20120-8-10	1/2x14	1/2	2.88	73	7/8	1-1/8	1.66	42	
20120-12-10	3/4x14	1/2	2.95	75	1-1/16	1-1/8	1.73	44	
20120-12-12	3/4x14	5/8	3.25	83	1-1/16	1-1/4	1.75	44	
20120-12-16	3/4x14	7/8	2.81	71	1-3/8	1-7/16	1.62	41	
20120-16-16	1x11-1/2	7/8	2.99	76	1-3/8	1-7/16	1.80	46	
20120-20-20	1-1/4x11-1/2	1-1/8	3.24	82	1-3/4	1-3/4	1.96	50	
20120-24-24	1-1/2x11-1/2	1-3/8	3.50	89	2	2	2.13	54	•
20120-32-32	2 x11-1/2	1-13/16	4.05	103	2-1/2	2-1/2	2.31	59	•



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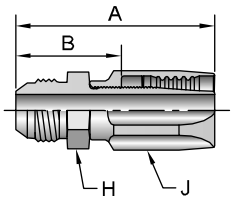
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

20320

Male JIC 37˚ - Rigid

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	B inch	B mm
20320-4-4	1/4	7/16x20	3/16	1.83	46	1/2	5/8	1.05	27
20320-6-6	3/8	9/16x18	5/16	2.11	54	5/8	13/16	1.19	30
20320-8-8	1/2	3/4x16	13/32	2.57	65	13/16	15/16	1.48	38
20320-10-10	5/8	7/8x14	1/2	2.88	73	15/16	1-1/8	1.66	42
20320-12-12	3/4	1-1/16x12	5/8	3.35	85	1-1/8	1-1/4	1.85	47
20320-16-16	1	1-5/16x12	7/8	2.95	75	1-3/8	1-7/16	1.76	45



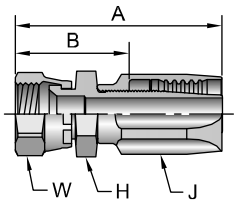
view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 201, 206, 266, 221FR and SS25UL

20620

Female JIC 37˚ - Swivel



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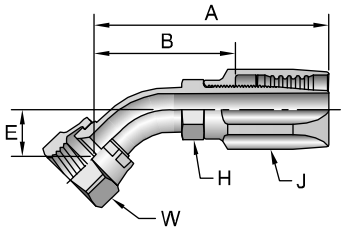
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm	Additional Material Stainless Steel (C)
20620-4-4	1/4	7/16x20	3/16	1.94	49	9/16	5/8	9/16	1.16	29	•
20620-4-5	1/4	7/16x20	1/4	2.04	52	9/16	11/16	9/16	1.21	31	
20620-5-5	5/16	1/2x20	1/4	2.12	54	5/8	11/16	5/8	1.29	33	
20620-6-5	3/8	9/16x18	1/4	2.19	56	11/16	11/16	11/16	1.36	35	
20620-6-6	3/8	9/16x18	5/16	2.32	59	11/16	13/16	11/16	1.40	36	•
20620-8-6	1/2	3/4x16	5/16	2.44	62	7/8	13/16	7/8	1.52	39	
20620-8-8	1/2	3/4x16	13/32	2.79	71	7/8	15/16	7/8	1.70	43	•
20620-8-10	1/2	3/4x16	1/2	2.99	76	7/8	1-1/8	7/8	1.77	45	
20620-10-8	5/8	7/8x14	13/32	2.94	75	7/8	15/16	1	1.85	47	
20620-10-10	5/8	7/8x14	1/2	3.10	79	1	1-1/8	1	1.88	48	•
20620-10-12	5/8	7/8x14	5/8	3.40	86	1	1-1/4	1	1.90	48	
20620-12-12	3/4	1-1/16x12	5/8	3.49	89	1-1/4	1-1/4	1-1/4	1.99	51	•
20620-16-16	1	1-5/16x12	7/8	3.20	81	1-1/2	1-7/16	1-1/2	2.01	51	•
20620-20-20	1-1/4	1-5/8x12	1-1/8	3.56	90	2	1-3/4	2	2.28	58	
20620-24-24	1-1/2	1-7/8x12	1-3/8	3.95	100	2-1/4	2	2-1/4	2.58	66	
20620-32-32	2	2-1/2x12	1-13/16	4.71	120	2-7/8	2-1/2	2-7/8	2.97	75	

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

23720

Female JIC 37˚ - Swivel - 45˚ Elbow - Short Drop



view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
23720-4-4	1/4	7/16x20	3/16	2.08	53	0.33	8	3/8	5/8	9/16	1.30	33
23720-5-5	5/16	1/2x20	1/4	2.36	60	0.39	10	1/2	11/16	5/8	1.55	39
23720-6-6	3/8	9/16x18	5/16	2.45	62	0.39	10	1/2	13/16	11/16	1.53	39
23720-8-6	1/2	3/4x16	5/16	2.77	70	0.55	14	5/8	13/16	7/8	1.85	47
23720-10-10	5/8	7/8x14	1/2	3.35	85	0.63	16	7/8	1-1/8	1	2.14	54
23720-12-12	3/4	1-1/16x12	5/8	3.94	100	0.79	20	7/8	1-1/4	1-1/4	2.44	62
23720-16-16	1	1-5/16x12	7/8	3.73	95	0.90	23	1-1/8	1-7/16	1-1/2	2.54	65
23720-20-20	1-1/4	1-5/8x12	1-1/8	4.17	106	1.19	30	1-1/2	1-3/4	2	2.89	73

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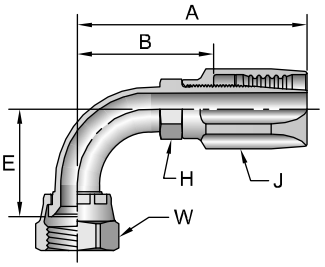
Use with hoses: 201, 206, 266, 221FR and SS25UL

23920

Female JIC 37˚ - Swivel - 90˚ Elbow - Short Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
23920-4-4	1/4	7/16x20	3/16	1.91	49	0.83	21	3/8	5/8	9/16	1.13	29
23920-5-5	5/16	1/2x20	1/4	2.28	58	0.83	21	1/2	11/16	5/8	1.47	37
23920-6-6	3/8	9/16x18	5/16	2.35	60	0.90	23	1/2	13/16	11/16	1.43	36
23920-8-8	1/2	3/4x16	13/32	2.88	73	1.09	28	5/8	15/16	7/8	1.79	45
23920-10-10	5/8	7/8x14	1/2	3.20	81	1.26	32	7/8	1-1/8	1	1.98	50
23920-12-12	3/4	1-1/16x12	5/8	3.86	98	1.82	46	7/8	1-1/4	1-1/4	2.36	60
23920-16-16	1	1-5/16x12	7/8	3.69	94	2.14	54	1-1/8	1-7/16	1-1/2	2.50	64
23920-20-20	1-1/4	1-5/8x12	1-1/8	4.01	102	2.59	66	1-1/2	1-3/4	2	2.73	69
23920-24-24	1-1/2	1-7/8x12	1-3/8	4.43	113	2.82	72	1-3/4	2	2-1/4	3.06	78



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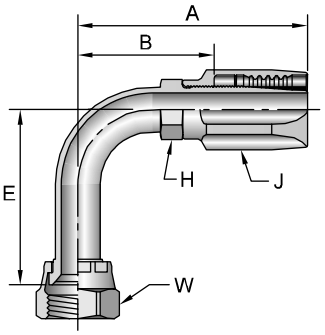
24120

Female JIC 37˚ - Swivel - 90˚ Elbow - Long Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
24120-4-4	1/4	7/16x20	3/16	2.08	53	1.80	46	3/8	5/8	9/16	1.30	33
24120-6-6	3/8	9/16x18	5/16	2.34	59	2.18	55	1/2	13/16	11/16	1.42	36
24120-8-8	1/2	3/4x16	13/32	2.95	75	2.43	62	5/8	15/16	7/8	1.86	47
24120-10-10	5/8	7/8x14	1/2	3.27	83	2.76	70	7/8	1-1/8	1	2.05	52
24120-12-12	3/4	1-1/16x12	5/8	3.78	96	3.74	95	7/8	1-1/4	1-1/4	2.28	58



view on web page

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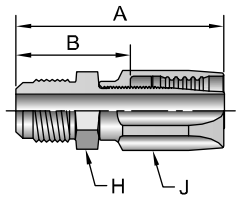
20420

Male SAE 45˚ - Rigid

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	B inch	B mm
20420-4-4	1/4	7/16x20	3/16	1.80	46	1/2	5/8	1.02	26
20420-6-6	3/8	5/8x18	5/16	2.17	55	11/16	13/16	1.25	32
20420-8-8	1/2	3/4x16	13/32	2.67	68	13/16	15/16	1.58	40



view on web page

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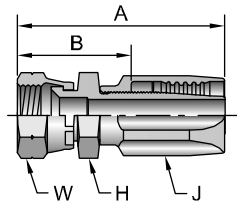
Use with hoses: 201, 206, 266, 221FR and SS25UL

20820

Female SAE 45˚ - Swivel



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
20820-4-4	1/4	7/16x20	3/16	1.94	49	9/16	5/8	9/16	1.16	29
20820-5-5	5/16	1/2x20	1/4	2.12	54	5/8	11-16	5/8	1.29	33
20820-6-6	3/8	5/8x18	5/16	2.36	60	3/4	13/16	3/4	1.44	37
20820-8-8	1/2	3/4x16	13/32	2.79	71	7/8	15/16	7/8	1.70	43
20820-8-10	1/2	3/4x16	1/2	2.99	76	7/8	1-1/8	7/8	1.77	45
20820-10-10	5/8	7/8x14	1/2	3.10	79	1	1-1/8	1	1.88	48
20820-12-12	3/4	1-1/16x14	5/8	3.49	89	1-1/4	1-1/4	1-1/4	1.99	51

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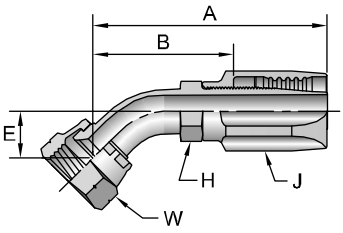
27720

Female SAE 45˚ - Swivel - 45˚ Elbow



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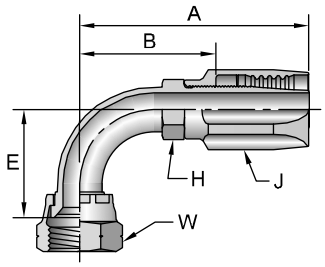
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
27720-6-6	3/8	5/8X18	5/16	2.45	62	0.39	10	1/2	13/16	3/4	1.53	39

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

27920

Female SAE 45˚ - Swivel - 90˚ Elbow



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
27920-4-4	1/4	7/16x20	3/16	1.91	49	0.83	21	3/8	5/8	9/16	1.13	29
27920-6-6	3/8	5/8x18	5/16	2.33	59	0.85	22	1/2	13/16	3/4	1.41	36
27920-8-8	1/2	3/4x16	13/32	2.86	73	1.09	28	5/8	15/16	7/8	1.77	45
27920-10-10	5/8	7/8x14	1/2	3.20	81	1.24	31	3/4	1-1/8	1	1.98	50

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Notch in nut signifies 45˚ flare.

Use with hoses: 201, 206, 266, 221FR and SS25UL

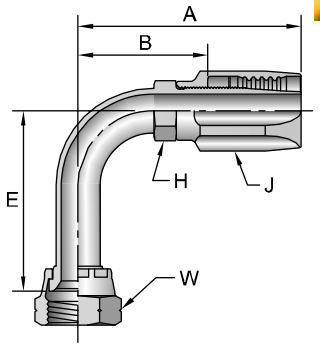
28120

Female SAE 45˚ - Swivel - 90˚ Elbow - Long Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
28120-6-6	3/8	5/8x18	5/16	2.34	59	2.18	55	1/2	13/16	3/4	1.42	36

Notch in nut signifies 45˚ flare.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



view on web page

21120

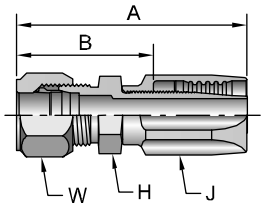
Male Ferulok Flareless - Rigid

(24˚ Cone with Nut and Ferrule)

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
21120-8-8	1/2	3/4x16	13/32	2.52	64	13/16	15/16	7/8	1.43	36

The Parker Ferrule-Fix fitting makes it possible to salvage the bent tube section from a hose assembly for quick, easy on the job repairs. For additional information see Ferrule-Fix installation instructions in the Technical Section.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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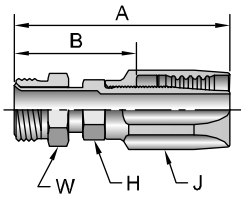
22820

Male Inverted SAE 45˚ - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
22820-4-4	1/4	7/16x24	3/16	2.45	62	3/8	5/8	7/16	1.67	42
22820-5-5	5/16	1/2x20	1/4	2.70	69	7/16	11/16	1/2	1.87	47
22820-6-6	3/8	5/8x18	5/16	2.95	75	1/2	13/16	5/8	2.03	52
22820-8-8	1/2	3/4x18	13/32	3.36	85	5/8	15/16	3/4	2.27	58
22820-10-10	5/8	7/8x18	1/2	3.64	92	3/4	1-1/8	7/8	2.42	61

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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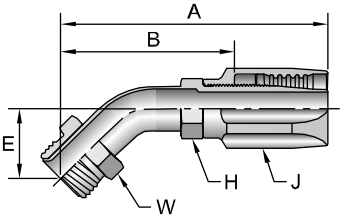
26720

Male Inverted SAE 45˚ - Swivel - 45˚ Elbow

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
26720-4-4	1/4	7/16x24	3/16	2.21	56	0.62	16	3/8	5/8	7/16	1.43	36
26720-5-5	5/16	1/2x20	1/4	2.44	62	0.70	18	7/16	11/16	1/2	1.61	41
26720-6-6	3/8	5/8x18	5/16	3.00	76	0.94	24	1/2	13/16	5/8	2.08	53
26720-8-8	1/2	3/4x18	13/32	3.51	89	1.09	28	5/8	15/16	3/4	2.42	61

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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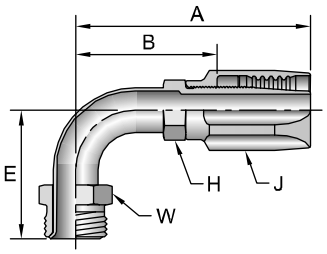
Use with hoses: 201, 206, 266, 221FR and SS25UL

26920

Male Inverted SAE 45˚ - Swivel - 90˚ Elbow



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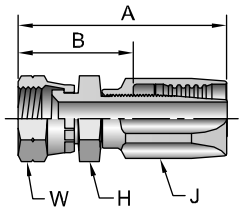
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
26920-4-4	1/4	7/16x24	3/16	2.29	58	1.56	40	3/8	5/8	7/16	1.51	38
26920-5-5	5/16	1/2x20	1/4	2.55	65	1.65	42	7/16	11/16	1/2	1.72	44
26920-6-6	3/8	5/8x18	5/16	2.67	68	1.69	43	1/2	13/16	5/8	1.75	44
26920-8-8	1/2	3/4x18	13/32	3.09	78	1.88	48	5/8	15/16	3/4	2.00	51

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

23220

Female PTT 30˚ - Swivel



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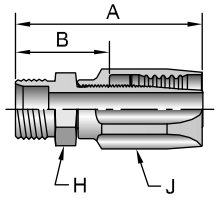
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
23220-16-16	1	1-5/16x14	7/8	2.98	76	1-1/2	1-7/16	1-1/2	1.79	45

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

26120

Male SAE Compression Seat

(without Nut or Sleeve)



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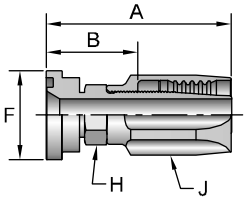
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	B inch	B mm
26120-10-10	5/8	13/16x18	1/2	2.64	67	7/8	1-1/8	1.42	36

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

21520

SAE Code 61 Flange Head

ISO 12151-3-S-L



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# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	H inch	J inch	B inch	B mm
21520-20-20	1-1/4	1-1/8	3.58	91	2	1-1/2	1-3/4	2.30	58

See Accesories Section for O-Rings and Flange Kits.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

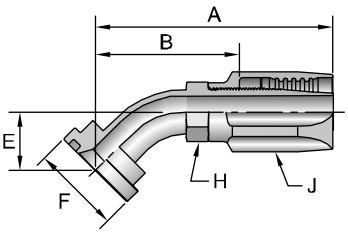
Use with hoses: 201, 206, 266, 221FR and SS25UL

21720

SAE Code 61 Flange Head - 45˚ Elbow

ISO 12151-3- E45S - L (1 Piece: ISO 12151-3- E45M - L)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	H inch	J inch	B inch	B mm
21720-20-20	1-1/4	1-1/8	4.10	104	1.12	28	2	1-1/2	1-3/4	2.82	72



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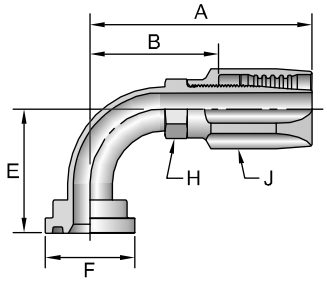
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

21920

SAE Code 61 Flange Head - 90˚ Elbow

ISO 12151-3- E90S - L (1 Piece: ISO 12151-3- E90M - L)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	H inch	J inch	B inch	B mm
21920-32-32	2	1-13/16	5.44	138	3.19	81	2-13/16	2-1/4	2-1/2	3.70	94
21920-40-40	2-1/2	2-3/8	6.18	157	3.75	95	3-5/16	2-3/4	3-1/8	4.37	111



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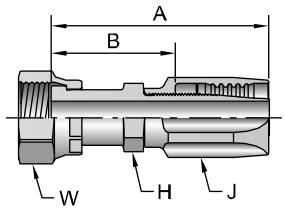
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

2JS20

Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
2JS20-4-4	1/4	9/16x18	3/16	2.07	53	9/16	5/8	11/16	1.29	33
2JS20-6-6	3/8	11/16x16	5/16	2.36	60	1/2	13/16	13/16	1.44	37
2JS20-8-8	1/2	13/16x16	13/32	2.92	74	5/8	15/16	15/16	1.83	46
2JS20-10-10	5/8	1x14	1/2	3.15	80	3/4	1-1/8	1-1/8	1.93	49
2JS20-12-12	3/4	1-3/16x12	5/8	3.66	93	1-1/8	1-1/4	1-3/8	2.16	55



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

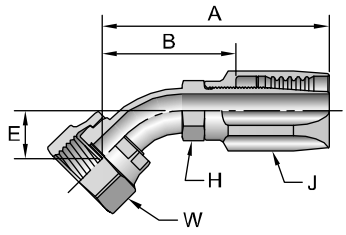
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 201, 206, 266, 221FR and SS25UL

2J720

Female Seal-Lok® - Swivel - 45˚ Elbow

ISO 12151-1 - SWE45



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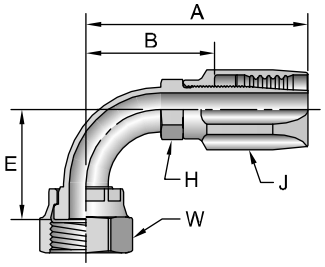
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
2J720-4-4	1/4	9/16x18	3/16	2.24	57	0.41	10	7/16	5/8	11/16	1.46	37
2J720-6-6	3/8	11/16x16	5/16	2.52	64	0.43	11	1/2	13/16	13/16	1.60	41
2J720-8-8	1/2	13/16x16	13/32	3.19	81	0.59	15	5/8	15/16	15/16	2.10	53
2J720-10-10	5/8	1x14	1/2	3.46	88	0.65	17	3/4	1-1/8	1-1/8	2.24	57

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

2J920

Female Seal-Lok® - Swivel 90˚ Elbow - Short Drop

ISO 12151-1 - SWE90



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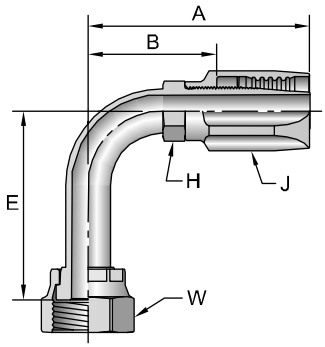
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
2J920-4-4	1/4	9/16x18	3/16	2.22	56	0.82	21	7/16	5/8	11/16	1.44	37
2J920-6-6	3/8	11/16x16	5/16	2.39	61	0.90	23	1/2	13/16	13/16	1.47	37
2J920-8-8	1/2	13/16x16	13/32	2.91	74	1.15	29	5/8	15/16	15/16	1.82	46
2J920-10-10	5/8	1x14	1/2	3.20	81	1.26	32	15/16	1-1/8	1-1/8	1.98	20
2J920-12-12	3/4	1-3/16x12	5/8	3.74	95	1.85	47	7/8	1-1/4	1-3/8	2.24	57

2J120

Female Seal-Lok® - Swivel - 90˚ Elbow - Long Drop

ISO 12151-1 - SWEL90



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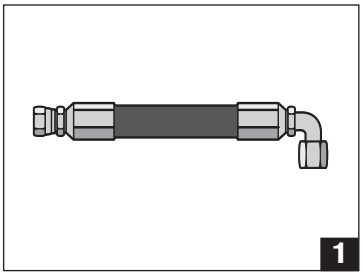
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
2J120-6-6	3/8	11/16x16	5/16	2.48	63	2.13	54	1/2	13/16	13/16	1.56	40
2J120-8-8	1/2	13/16x16	13/32	2.93	74	2.52	64	3/4	15/16	15/16	1.88	48

See Accessories Section for O-Rings.

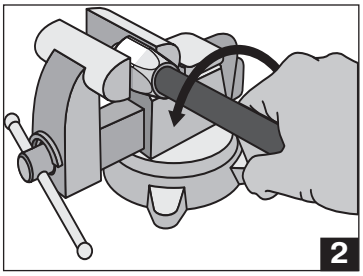
Use with hoses: 201, 206, 266, 221FR and SS25UL

20 Series

Hose Assembly Instructions

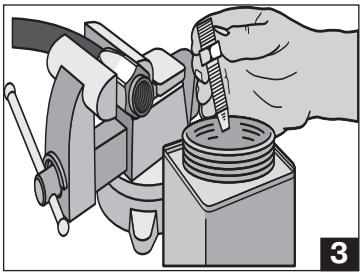


1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or cutoff machine. Care should be taken to ensure a square, clean cut is obtained.



2. Air or solvent flush cut end of hose as necessary to produce a clean hose ID prior to assembly. Place socket in vice and screw in hose counter clockwise until hose bottoms. Back hose out ½ turn.

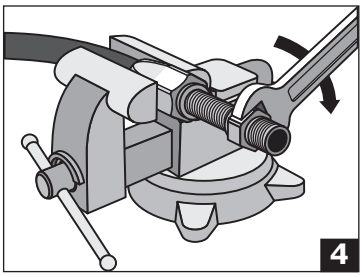
3. Oil inside of hose and nipple threads liberally with oil. Do not oil hose cover.



4. Screw nipple assembly into socket using a wrench on the nipple hex until the nipple hex shoulders against the socket. A 1/32" to 1/16" gap between the nipple hex and socket is allowed for displacement angle adjustment when two elbow fittings are used.

Inspection. Examine hose assembly internally for cut or bulged tube, obstructions and cleanliness. Clean ID of hose as necessary. Swivel nuts should turn freely. Check the layline of the hose to be sure the assembly is not twisted. Cap the ends of the assembly to keep clean.

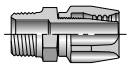
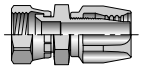
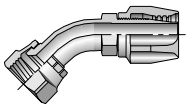
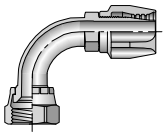
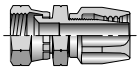
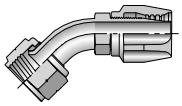
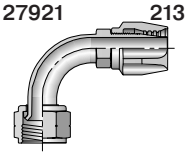
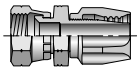
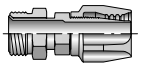
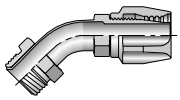
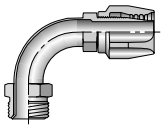
Special Instructions for stainless steel fittings. When assembling fittings made with 316 stainless steel, lubricate the threads of both the socket and nipple with Accrolube High Efficiency Lubricant (see Section 3) or equivalent metal assembly lubricant.



Note: Disassemble in reverse order.

Use with hoses: 201, 206, 266, 221FR and SS25UL

21 Series Fittings

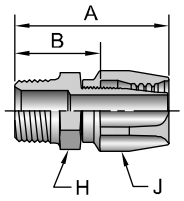
NPTF Pipe	20121 211  *Male - Rigid*	**JIC 37˚**	20621 211  *Female - Swivel*	23721 211  *Female - Swivel 45˚ Elbow - Short*	23921 212  *Female - Swivel 90˚ Elbow - Short*
SAE 45˚	20821 212  *Female - Swivel*		27721 212  *Female - Swivel 45˚ Elbow*	27921 213  *Female - Swivel 90˚ Elbow*	**PTT 30˚**	23221 213  *Female - Swivel*
Inverted Flare	22821 213  *Male - Swivel*		26721 214  *Male - Swivel 45˚ Elbow*	26921 214  *Male - Swivel 90˚ Elbow*	**Assembly Instructions**	21 Series 215 *Assembly Instructions*

Use with hoses: 213, 293

20121

Male NPTF Pipe - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	J inch	B inch	B mm
20121-2-4	1/8x27	3/16	1.55	39	7/16	9/16	0.88	22
20121-4-4	1/4x18	3/16	1.77	45	9/16	9/16	1.10	28
20121-4-5	1/4x18	1/4	1.79	45	9/16	5/8	1.05	27
20121-4-6	1/4x18	5/16	1.92	49	9/16	3/4	1.14	29
20121-6-6	3/8x18	5/16	1.95	50	11/16	3/4	1.17	30
20121-6-8	3/8x18	13/32	2.10	53	11/16	7/8	1.18	30
20121-8-8	1/2x14	13/32	2.34	59	7/8	7/8	1.42	36
20121-8-10	1/2x14	1/2	2.44	62	7/8	1-1/16	1.44	37
20121-12-12	3/4x14	5/8	2.58	66	1-1/8	1-1/4	1.50	38
20121-12-16	3/4x14	7/8	2.50	64	1-1/4	1-7/16	1.51	38
20121-16-16	1x11-1/2	7/8	2.69	68	1-3/8	1-7/16	1.70	43



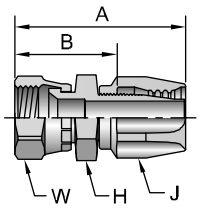
view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

20621

Female JIC 37˚ - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
20621-4-4	1/4	7/16x20	3/16	1.83	46	9/16	9/16	9/16	1.16	29
20621-5-5	5/16	1/2x20	1/4	1.92	49	5/8	5/8	5/8	1.18	30
20621-6-6	3/8	9/16x18	5/16	2.09	53	11/16	3/4	11/16	1.31	33
20621-8-8	1/2	3/4x16	13/32	2.46	62	7/8	7/8	7/8	1.54	39
20621-8-10	1/2	3/4x16	1/2	2.56	65	1	1-1/16	7/8	1.56	40
20621-10-10	5/8	7/8x14	1/2	2.65	67	1	1-1/16	1	1.65	42
20621-12-12	3/4	1-1/16x12	5/8	2.85	72	1-1/4	1-1/4	1-1/4	1.77	45
20621-16-16	1	1-5/16x12	7/8	2.94	75	1-1/2	1-7/16	1-1/2	1.95	50
20621-20-20	1-1/4	1-5/8x12	1-1/8	3.16	80	2	1-3/4	2	2.12	54



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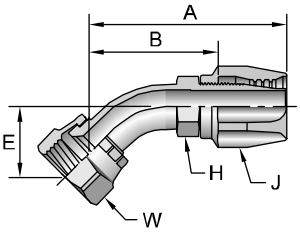
23721

Female JIC 37˚ - Swivel - 45˚ Elbow - Short Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
23721-4-4	1/4	7/16x20	3/16	2.11	54	0.39	10	3/8	9/16	9/16	1.43	36
23721-6-6	3/8	9/16x18	5/16	2.26	57	0.40	10	1/2	3/4	11/16	1.48	38
23721-8-8	1/2	3/4x16	13/32	2.79	71	0.59	15	11/16	7/8	7/8	1.87	47
23721-10-10	5/8	7/8x14	1/2	2.97	75	0.63	16	7/8	1-1/16	1	1.97	50
23721-12-12	3/4	1-1/16x12	5/8	3.30	84	0.83	21	7/8	1-1/4	1-1/4	2.22	56
23721-16-16	1	1-5/16x12	7/8	3.44	87	0.90	23	1-1/8	1-7/16	1-1/2	2.45	62



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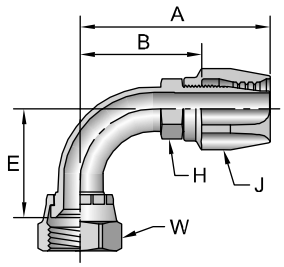
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 213, 293

23921

Female JIC 37˚ - Swivel - 90˚ Elbow - Short Drop



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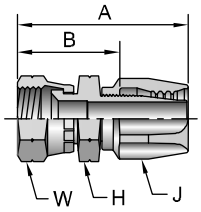
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
23921-4-4	1/4	7/16x20	3/16	1.88	48	0.83	21	3/8	9/16	9/16	1.20	30
23921-5-5	5/16	1/2x20	1/4	2.07	53	0.83	21	1/2	5/8	5/8	1.33	34
23921-6-6	3/8	9/16x18	5/16	2.15	55	0.85	22	1/2	3/4	11/16	1.37	35
23921-8-8	1/2	3/4x16	13/32	2.49	63	1.14	29	11/16	7/8	7/8	1.57	40
23921-10-10	5/8	7/8x14	1/2	2.78	71	1.26	32	7/8	1-1/16	1	1.78	45
23921-12-12	3/4	1-1/16x12	5/8	2.88	73	1.89	48	7/8	1-1/4	1-1/4	1.80	46
23921-16-16	1	1-5/16x12	7/8	3.40	86	2.14	54	1-1/8	1-7/16	1-1/2	2.41	61
23921-20-20	1-1/4	1-5/8x12	1-1/8	3.64	92	2.59	66	1-3/8	1-3/4	2	2.60	66

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

20821

Female SAE 45˚ - Swivel



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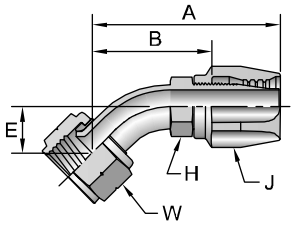
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
20821-4-4	1/4	7/16x20	3/16	1.83	46	9/16	9/16	9/16	1.16	29
20821-5-5	5/16	1/2x20	1/4	1.91	49	5/8	5/8	5/8	1.17	30
20821-6-6	3/8	5/8x18	5/16	2.12	54	3/4	3/4	3/4	1.34	34
20821-8-8	1/2	3/4x16	13/32	2.46	62	7/8	7/8	7/8	1.54	39
20821-10-10	5/8	7/8x14	1/2	2.65	67	1	1-1/16	1	1.65	42
20821-12-12	3/4	1-1/16x14	5/8	2.85	72	1-1/4	1-1/4	1-1/4	1.77	45

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

27721

Female SAE 45˚ - Swivel - 45˚ Elbow



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Notch in nut signifies 45˚ flare.

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
27721-6-6	3/8	5/8x18	5/16	2.26	57	0.40	10	1/2	3/4	3/4	1.48	38

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 213, 293

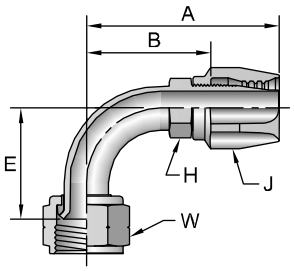
27921

Female SAE 45˚ - Swivel - 90˚ Elbow

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
27921-6-6	3/8	5/8x18	5/16	2.15	55	0.85	22	1/2	3/4	3/4	1.37	35

Notch in nut signifies 45˚ flare.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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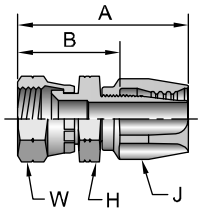
23221

Female PTT 30˚ - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
23221-16-16	1	1-5/16x14	7/8	2.70	69	1-1/2	1-7/16	1-1/2	1.71	43

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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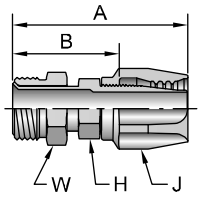
22821

Male Inverted SAE 45˚ - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
22821-4-4	1/4	7/16x24	3/16	2.36	60	3/8	9/16	7/16	1.68	43
22821-5-5	5/16	1/2x20	1/4	2.34	59	7/16	5/8	1/2	1.60	41
22821-5-6	5/16	1/2x20	5/16	2.47	63	1/2	3/4	1/2	1.69	43
22821-6-6	3/8	5/8x18	5/16	2.45	62	1/2	3/4	5/8	1.67	42
22821-8-8	1/2	3/4x18	13/32	2.84	72	5/8	7/8	3/4	1.92	49

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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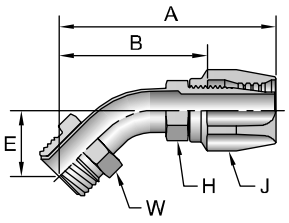
Notch in nut signifies 45˚ flare.

26721

Male Inverted SAE 45° - Swivel - 45° Elbow



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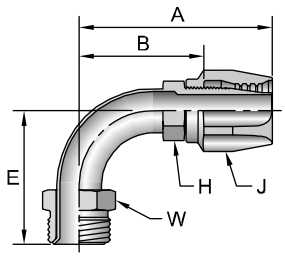
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
26721-6-6	3/8	5/8x18	5/16	2.73	69	0.94	24	1/2	3/4	5/8	1.95	50

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

26921

Male Inverted SAE 45° - Swivel - 90° Elbow



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
26921-5-5	5/16	1/2x20	1/4	2.25	57	1.65	42	7/16	5/8	1/2	1.51	38
26921-6-6	3/8	5/8x18	5/16	2.37	60	1.63	41	1/2	3/4	5/8	1.59	40
26921-8-8	1/2	3/4x18	13/32	2.63	67	1.78	45	5/8	7/8	3/4	1.71	43

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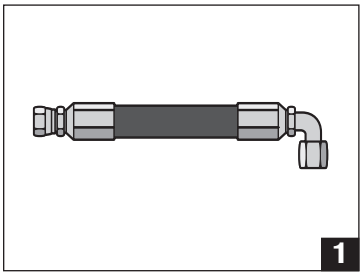
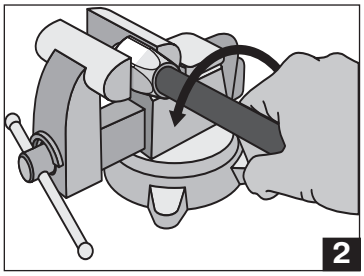
21 Series

Hose Assembly Instructions



1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Care should be taken to ensure a square, clean cut is obtained.

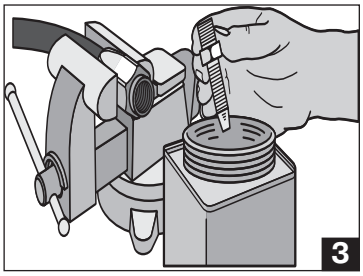
2. Air or solvent flush cut end of hose as necessary to produce a clean hose ID prior to assembly. Place socket in vice and screw in hose counter clockwise until hose bottoms. Back hose out ½ turn.



3. Oil inside of hose and nipple threads liberally with oil. Do not oil hose cover.

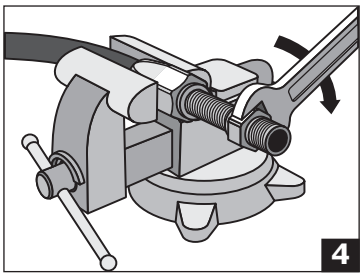
4. Screw nipple assembly into socket using a wrench on the nipple hex until the nipple hex shoulders against the socket. A 1/32" to 1/16" gap between the nipple hex and socket is allowed for displacement angle adjustment when elbow fittings are used.

Inspection. Examine hose assembly internally for cut or bulged tube, obstructions and cleanliness. Clean ID of hose as necessary. Swivel nuts should turn freely. Check the layline of the hose to be sure the assembly is not twisted. Cap the ends of the assembly to keep clean.

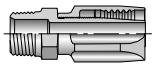
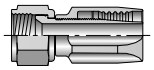
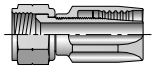


Special instructions for stainless steel fittings. When assembling fittings made with 316 stainless steel, lubricate the threads of both the socket and nipple with Accrolube High Efficiency Lubricant (see Equipment Section) or equivalent metal assembly lubricant.

Note: Disassemble in reverse order.



22 Series Fittings

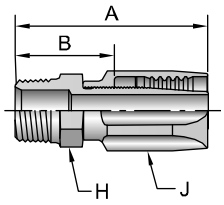
NPTF Pipe	**20122** **217**  *Male - Rigid*	**JIC 37°**	**20622** **217**  *Female - Swivel*	**SAE 45°**	**20822** **217**  *Female - Swivel*
Assembly Instructions	**22 Series** **218** *Assembly Instructions*				

Use with hoses: 201, 206, 221FR, 266, SS25UL

20122

Male NPTF Pipe - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	J inch	B inch	B mm	Additional Material Brass (B)
20122-4-6	1/4x18	5/16	2.11	54	9/16	13/16	1.19	30	•



view on web page

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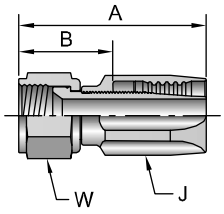
20622

Female JIC 37˚ - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	J inch	W inch	B inch	B mm	Additional Material Brass (B)
20622-4-4	1/4	7/16x20	3/16	1.74	44	5/8	9/16	0.96	24	•
20622-6-6	3/8	9/16x18	5/16	2.05	52	13/16	11/16	1.13	29	•
20622-8-8	1/2	3/4x16	13/32	2.55	65	15/16	7/8	1.46	37	•
20622-10-10	5/8	7/8x14	1/2	2.80	71	1-1/8	1	1.58	40	•
20622-12-12	3/4	1-1/16x12	5/8	3.15	80	1-1/4	1-1/8	1.65	42	•
20622-16-16	1	1-5/16x12	7/8	2.84	72	1-7/16	1-1/2	1.65	42	•
20622-20-20	1-1/4	1-5/8x12	1-1/8	3.00	76	1-3/4	2	1.72	44	•
20622-24-24	1-1/2	1-7/8x12	1-3/8	3.30	84	2	2-1/4	1.93	49	
20622-32-32	2	2-1/2x12	1-13/16	4.05	103	2-1/2	2-7/8	2.31	59	•



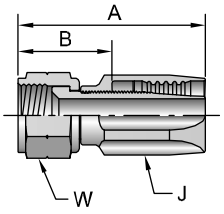
view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

20822

Female SAE 45˚ - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	J inch	W inch	B inch	B mm	Additional Material Brass (B)
20822-4-4	1/4	7/16x20	3/16	1.74	44	5/8	9/16	0.96	24	•
20822-5-5	5/16	1/2x20	1/4	1.91	49	11/16	5/8	1.08	27	
20822-6-6	3/8	5/8x18	5/16	2.08	53	13/16	3/4	1.16	29	•
20822-8-8	1/2	3/4x16	13/32	2.45	62	15/16	7/8	1.36	35	•
20822-10-10	5/8	7/8x14	1/2	2.80	71	1-1/8	1	1.58	40	•



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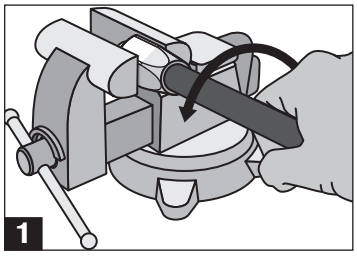
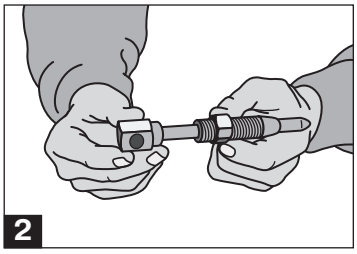
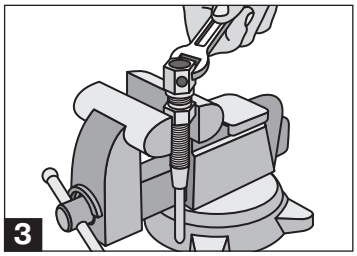
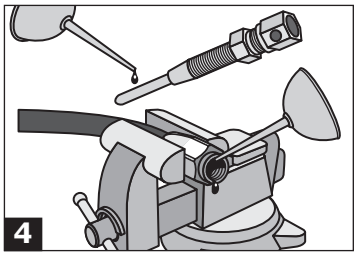
Notch in nut for SAE (45˚) flare.

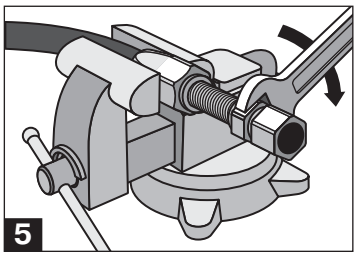
Use with hoses: 201, 206, 221FR, 266, SS25UL











22 Series

Mandrel Assembly Instructions

1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Care should be taken to ensure a square, clean cut is obtained. Air or solvent flush cut end of hose as necessary to produce a clean hose ID prior to assembly. Place socket in vice and screw in hose counter clockwise until hose bottoms. Back hose out ½ turn.

2. When assembling male pipe ends, slide nipple onto mandrel.

3. When assembling swivel ends, slide swivel nut over nipple. Slide nut and nipple onto mandrel. Screw mandrel threads into nipple and wrench tighten.

4. Oil inside of hose and nipple threads liberally with oil. Do not oil hose cover.

5. Push nipple into socket.
   - Male ends: Thread nipple in until it bottoms against socket.
   - Swivel ends: Thread nipple into socket using hex on assembly mandrel. Leave clearance of approximately 1/32" (.784mm) between nut and socket to allow nut to swivel. Remove mandrel.

Note: Disassemble in reverse order.

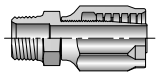
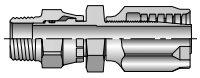
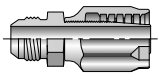
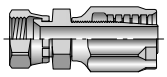
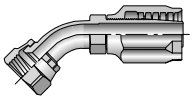
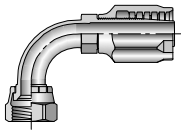
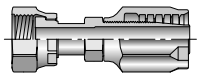
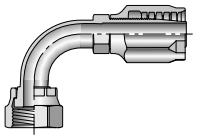
Caution: Do Not Attempt to Assemble These Fittings to the Hose Without Using a Mandrel.

Inspection. Examine hose assembly internally for cut or bulged tube, obstructions and cleanliness. Clean ID of hose as necessary. Swivel nuts should turn freely. Check the layline of the hose to be sure the assembly is not twisted. Cap the ends of the assembly to keep clean.

Special Instructions for Refrigerant Hose. Oil inside of hose and nipple threads liberally with the same oil used in refrigeration system. Do not oil hose cover. Do not allow hose to contact any petroleum base fluids.

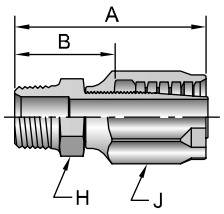
Use with hoses: 201, 206, 221FR, 266, SS25UL

30 Series Fittings

NPTF Pipe	**20130 220**  *Male - Rigid*	**21330 220**  *Male - Swivel*	**JIC 37˚**	**20330 221**  *Male - Rigid*	**20630 221**  *Female - Swivel*
23730 222  *Female - Swivel 45˚ Elbow - Short*	**23930 222**  *Female - Swivel 90˚ Elbow - Short*	**Seal-Lok® O-Ring Face Seal**	**2JS30 223**  *Female - Swivel Long*	**2J930 223**  *Female - Swivel 90˚ Elbow - Short*	**Assembly Instructions**
30 Series 224 *Assembly Instructions*					

20130

Male NPTF Pipe - Rigid



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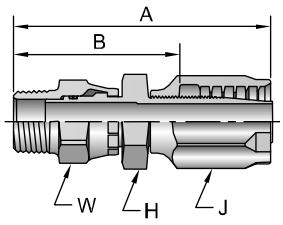
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	J inch	B inch	B mm
20130-2-4	1/8x27	1/4	2.19	56	9/16	3/4	1.23	31
20130-4-4	1/4x18	1/4	2.38	60	9/16	3/4	1.42	36
20130-6-6	3/8x18	3/8	2.58	66	3/4	15/16	1.44	37
20130-8-8	1/2x14	1/2	3.11	79	7/8	1-1/16	1.77	45
20130-12-12	3/4x14	3/4	3.20	81	1-1/8	1-3/8	1.77	45
20130-16-16	1x11-1/2	1	3.74	95	1-3/8	1-3/4	2.03	52

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

21330

Male NPTF Pipe - Swivel



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
21330-6-6	3/8x18	3/8	3.67	93	7/8	15/16	3/4	2.53	64
21330-8-8	1/2x14	1/2	4.20	107	1	1-1/16	7/8	2.86	73

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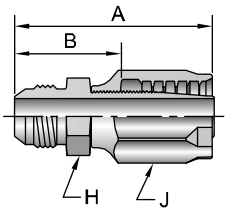
O-Rings are not compatible with Phosphate Ester fluids.

20330

Male JIC 37° - Rigid

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	B inch	B mm
20330-4-4	1/4	7/16x20	1/4	2.37	60	9/16	3/4	1.41	36
20330-6-6	3/8	9/16x18	3/8	2.58	66	3/4	15/16	1.44	37
20330-8-8	1/2	3/4x16	1/2	3.02	77	7/8	1-1/16	1.68	43
20330-10-10	5/8	7/8x14	5/8	3.29	84	15/16	1-1/4	1.83	46
20330-12-12	3/4	1-1/16x12	3/4	3.31	84	1-1/8	1-3/8	1.88	48



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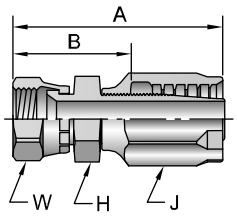
20630

Female JIC 37° - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm	Additional Material Stainless Steel (C)
20630-4-4	1/4	7/16x20	1/4	2.45	62	9/16	3/4	9/16	1.49	38	•
20630-5-4	5/16	1/2x20	1/4	2.52	64	5/8	3/4	5/8	1.56	40	
20630-6-4	3/8	9/16x18	1/4	2.54	65	11/16	3/4	11/16	1.58	40	
20630-6-6	3/8	9/16x18	3/8	2.74	70	11/16	15/16	11/16	1.60	41	
20630-8-8	1/2	3/4x16	1/2	3.20	81	7/8	1-1/16	7/8	1.86	47	•
20630-10-8	5/8	7/8x14	1/2	3.30	84	1	1-1/16	1	1.96	50	
20630-10-10	5/8	7/8x14	5/8	3.54	90	1	1-1/4	1	2.08	53	
20630-16-16	1	1-5/16x12	1	3.94	100	1-1/2	1-3/4	1-1/2	2.23	57	
20630-20-20	1-1/4	1-5/8x12	1-1/4	4.96	126	2	2-1/4	2	2.83	72	



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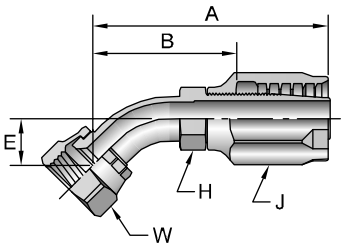
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hose: 302



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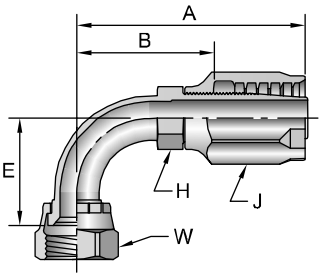
23730

Female JIC 37° - Swivel - 45° Elbow - Short Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
23730-12-12	3/4	1-1/16x12	3/4	3.93	100	0.79	20	15/16	1-3/8	1-1/4	2.50	64

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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23930

Female JIC 37° - Swivel - 90° Elbow - Short Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
23930-6-6	3/8	9/16x18	3/8	2.95	75	0.91	23	9/16	15/16	11/16	1.81	46
23930-8-8	1/2	3/4x16	1/2	3.40	86	1.14	29	11/16	1-1/16	7/8	2.06	52

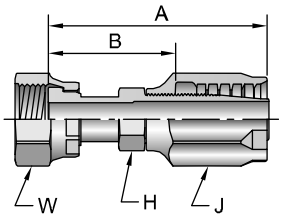
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

2JS30

Female Seal-Lok® - Swivel - Long

ISO 12151-1 - SWSB

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
2JS30-4-4	1/4	9/16x18	1/4	2.62	67	9/16	3/4	11/16	1.66	42
2JS30-6-6	3/8	11/16x16	3/8	2.89	73	9/16	15/16	13/16	1.75	44
2JS30-8-8	1/2	13/16x16	1/2	3.32	84	11/16	1-1/16	15/16	1.98	50
2JS30-12-12	3/4	1-3/16x12	3/4	3.65	93	15/16	1-3/8	1-3/8	2.22	56



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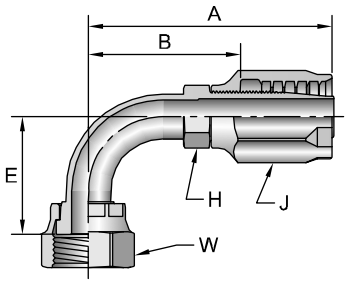
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

2J930

Female Seal-Lok® - Swivel - 90° Elbow - Short Drop

ISO 12151-1 - SWES90

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
2J930-4-4	1/4	9/16x18	1/4	2.83	72	0.82	21	7/16	3/4	11/16	1.87	47
2J930-8-8	1/2	13/16x16	1/2	3.40	86	1.14	29	3/4	1-1/16	15/16	2.06	52



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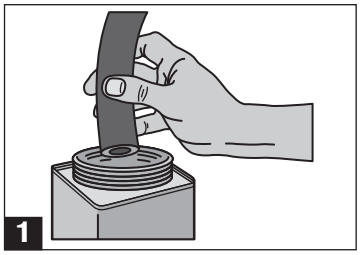
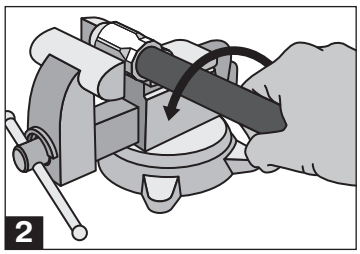
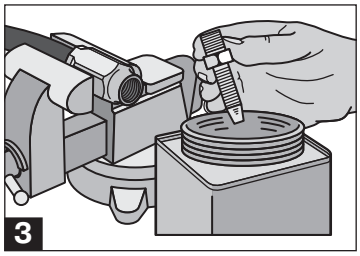
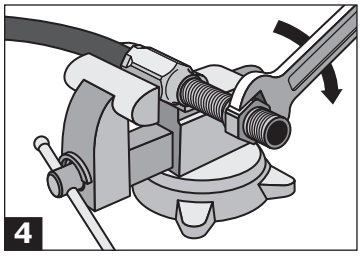
See Accessories Section for O-Rings.

Use with hose: 302









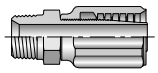
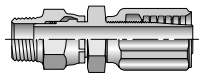
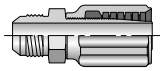
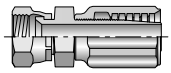
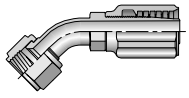
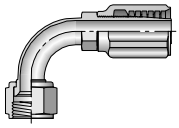
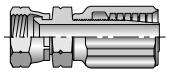
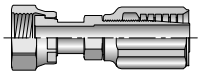
30 Series

Hose Assembly Instructions

1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Dip hose end into oil or heavy oil.
2. Place socket in vice and screw in hose counter-clockwise until hose bottoms. Back hose out 1/2 turn.
3. Dip hose end of nipple into oil or other heavy oil up to the hex. When assembling fittings of 316 stainless steel lubricate the threads of both the socket and nipple with Dow Corning Molykote G-n or equivalent metal assembly lubricant.
4. Screw nipple assembly into socket using wrench on nipple hex until nipple hex shoulders against socket.

Note: Disassemble in reverse order.

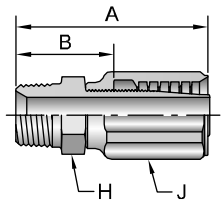
42 Series Fittings

NPTF Pipe	**20142** 226  *Male - Rigid*	**21342** 226  *Male - Swivel*	**JIC 37°**	**20342** 226  *Male - Rigid*	**20642** 227  *Female - Swivel*
23742 227  *Female - Swivel 45° Elbow - Short*	**23942** 227  *Female - Swivel 90° Elbow - Short*	**SAE**	**20842** 228  *Female - Swivel*	**Seal-Lok® O-Ring Face Seal**	**2JS42** 228  *Female - Swivel Long*
Assembly Instructions	**42 Series** 229 *Assembly Instructions*				

Use with hoses: 422, 436, 482TC, 482ST

20142

Male NPTF Pipe - Rigid



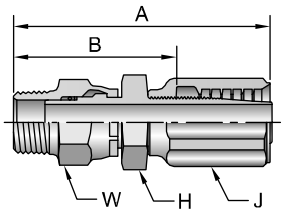
view on web page

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	J inch	B inch	B mm
20142-2-4	1/8x27	1/4	2.17	55	9/16	11/16	1.25	32
20142-4-4	1/4x18	1/4	2.36	60	9/16	11/16	1.44	37
20142-4-5	1/4x18	5/16	2.39	61	9/16	13/16	1.44	37
20142-4-6	1/4x18	3/8	2.60	66	11/16	7/8	1.45	37
20142-6-6	3/8x18	3/8	2.60	66	3/4	7/8	1.45	37
20142-8-8	1/2x14	1/2	3.02	77	7/8	1	1.69	43
20142-12-12	3/4x14	3/4	3.23	82	1-1/8	1-3/8	1.75	44

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

21342

Male NPTF Pipe - Swivel



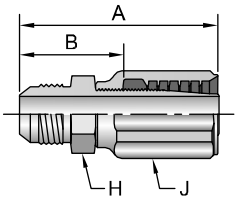
view on web page

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
21342-4-4	1/4x18	1/4	3.40	86	9/16	11/16	5/8	2.48	63
21342-6-6	3/8x18	3/8	3.69	94	7/8	7/8	3/4	2.54	65

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

20342

Male JIC 37˚ - Rigid



view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	B inch	B mm
20342-4-4	1/4	7/16x20	1/4	2.35	60	9/16	11/16	1.43	36
20342-6-6	3/8	9/16x18	3/8	2.60	66	3/4	7/8	1.45	37
20342-8-8	1/2	3/4x16	1/2	2.93	74	7/8	1	1.60	41

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

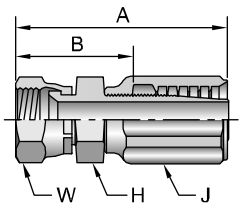
O-Rings are not compatible with Phosphate Ester fluids.

Use with hoses: 422, 436, 482TC, 482ST

20642

Female JIC 37˚ - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm	Additional Material Stainless Steel (C)
20642-4-3	1/4	7/16x20	3/16	2.34	59	9/16	5/8	9/16	1.56	40	
20642-4-4	1/4	7/16x20	1/4	2.43	62	9/16	11/16	9/16	1.51	38	
20642-6-4	3/8	9/16x18	1/4	2.52	64	11/16	11/16	11/16	1.60	41	
20642-6-6	3/8	9/16x18	3/8	2.76	70	11/16	7/8	11/16	1.61	41	•
20642-8-6	1/2	3/4x16	3/8	2.88	73	7/8	7/8	7/8	1.73	44	
20642-8-8	1/2	3/4x16	1/2	3.11	79	7/8	1	7/8	1.78	45	•
20642-10-10	5/8	7/8x14	5/8	3.49	89	1	1-1/8	1	2.07	53	
20642-12-12	3/4	1-1/16x12	3/4	3.53	90	1-1/4	1-3/8	1-1/4	2.05	52	
20642-16-16	1	1-5/16x12	1	3.81	97	1-1/2	1-5/8	1-1/2	2.27	58	



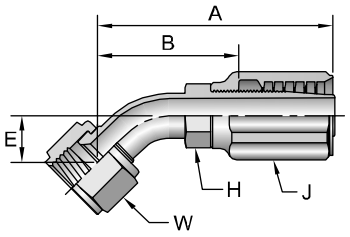
view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

23742

Female JIC 37˚ - Swivel - 45˚ Elbow - Short Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
23742-6-6	3/8	9/16x18	3/8	3.03	77	0.39	10	9/16	7/8	11/16	1.88	48



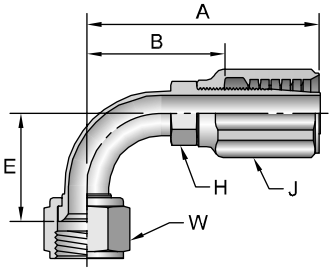
view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

23942

Female JIC 37˚ - Swivel - 90˚ Elbow - Short Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	J inch	W inch	B inch	B mm
23942-4-4	1/4	7/16x20	1/4	2.50	64	0.83	21	7/16	11/16	9/16	1.58	40
23942-6-6	3/8	9/16x18	3/8	2.93	74	0.85	22	9/16	7/8	11/16	1.78	45
23942-8-8	1/2	3/4x16	1/2	3.22	82	1.09	28	11/16	1	7/8	1.90	48



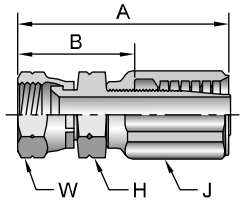
view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 422, 436, 482TC, 482ST

20842

Female SAE 45˚ - Swivel



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
20842-6-6	3/8	5/8x18	3/8	2.82	72	3/4	7/8	3/4	1.67	42

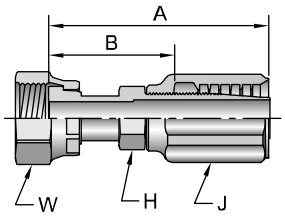
Notch on nut signifies SAE 45˚ flare.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

2JS42

Female Seal-Lok® - Swivel - Long

ISO - 12151-1 - SWSB



view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	J inch	W inch	B inch	B mm
2JS42-6-6	3/8	11/16x16	3/8	2.91	74	9/16	7/8	13/16	1.76	45
2JS42-8-8	1/2	13/16x16	1/2	3.23	82	11/16	1	15/16	1.90	48

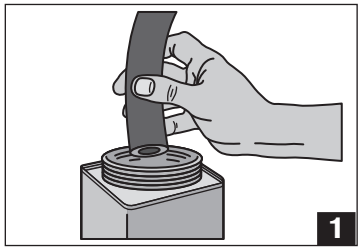
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 422, 436, 482TC, 482ST

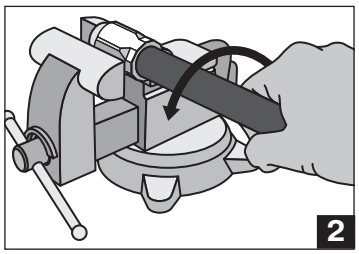
42 Series

Hose Assembly Instructions

1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table. Properly measure, mark and cut hose to desired length using fine tooth hacksaw or a cutoff machine. Dip hose end into oil or heavy oil.

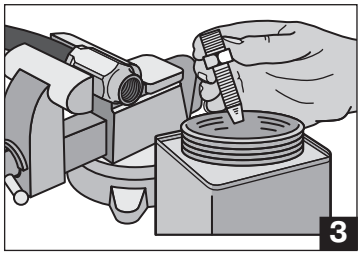


2. Place socket in vice and screw in hose counter-clockwise until hose bottoms. Back hose out 1/2 turn.

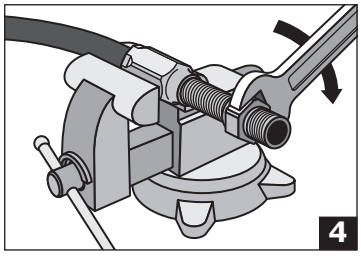


3. Dip hose end of nipple into oil or other heavy oil up to the hex. When assembling fittings of 316 stainless steel lubricate the threads of both the socket and nipple with Dow Corning Molykote G-n or equivalent metal assembly lubricant.

4. Screw assembly into socket using wrench on nipple hex until nipple hex shoulders against socket.

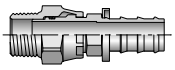
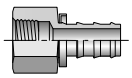
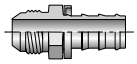
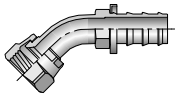
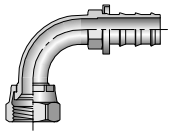
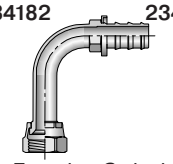
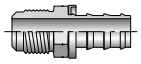
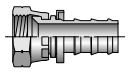
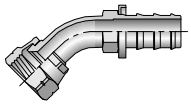
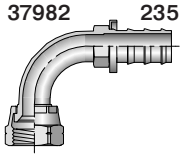
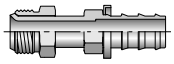
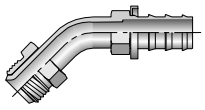
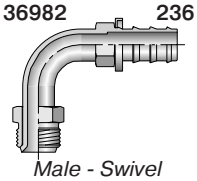
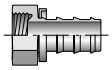
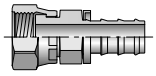
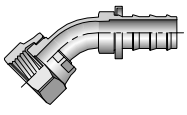
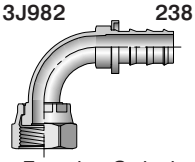
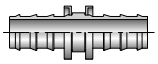
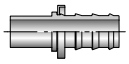
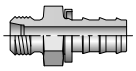
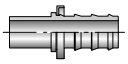
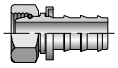
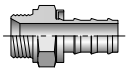
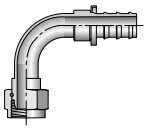
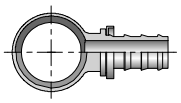
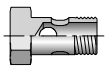
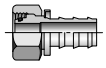
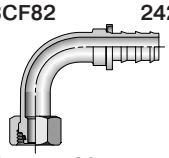
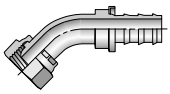
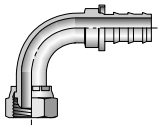
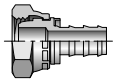


Note: Disassemble in reverse order.



Use with hoses: 422, 436, 482TC, 482ST

82 Series Fittings

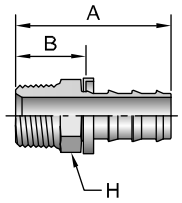
NPTF Pipe	30182 231 *Male - Rigid*	31382 231  *Male - Swivel*	30282 232  *Female - Rigid*	**NPSM Pipe**	37G82 232 *Female - Swivel Gasket Joint*
JIC 37˚	30382 232  *Male - Rigid*	30682 233 *Female - Swivel*	33782 233  *Female - Swivel 45˚ Elbow - Short*	33982 234  *Female - Swivel 90˚ Elbow - Short*	34182 234  *Female - Swivel 90˚ Elbow - Long*
SAE	30482 234  *Male - Rigid*	30882 235  *Female - Swivel*	37782 235  *Female - Swivel 45˚ Elbow*	37982 235  *Female - Swivel 90˚ Elbow*	**Inverted SAE**
32882 236  *Male - Swivel*	36782 236  *Male - Swivel 45˚ Elbow*	36982 236  *Male - Swivel 90˚ Elbow*	32982 237  *Female - Rigid*	**Seal-Lok® O-Ring Face Seal**	3JC82 237  *Female - Swivel Short*
3J782 237  *Female - Swivel 45˚ Elbow*	3J982 238  *Female - Swivel 90˚ Elbow - Short*	**Union**	38282 238  *Push-Lok Union*	**Standpipe**	33482 239  *Male Standpipe Rigid*
Metric L	3D082 239  *Male - Rigid*	31D82 239  *Male Standpipe Rigid*	**BSP**	39282 240  *Female - Swivel*	3D982 240  *Male - Rigid*
3B282 240  *Female - Swivel 90˚ Elbow*	**Banjo**	34982 241  *Metric - Banjo*	AM 241  *Banjo Bolt*	**Metric L Swivels**	3CA82 242  *Swivel - 24˚ Cone*
3CF82 242  *Swivel - 90˚ Elbow - 24˚ Cone*	3C482 242  *Swivel - 45˚ Elbow - Ball Nose*	3C582 243  *Swivel - 90˚ Elbow - Ball Nose*	3C382 243  *Swivel - Ball Nose*	82 Series 244 *Assembly Instructions*	

Use with hoses: 801, 807, 821, 821FR, 836

30182

Male NPTF Pipe - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm	Additional Material Brass (B)	Additional Material Stainless Steel (C)
30182-2-4	1/8x27	1/4	1.39	35	7/16	0.64	16	•	•
30182-4-4	1/4x18	1/4	1.57	40	9/16	0.82	21	•	•
30182-4-6	1/4x18	3/8	1.78	45	9/16	0.88	22	•	•
30182-4-8	1/4x18	1/2	1.93	49	5/8	0.88	22	•	
30182-6-6	3/8x18	3/8	1.78	45	11/16	0.88	22	•	•
30182-6-8	3/8x18	1/2	1.93	49	11/16	0.88	22	•	
30182-8-8	1/2x14	1/2	2.18	55	7/8	1.13	29	•	•
30182-8-10	1/2x14	5/8	2.58	66	7/8	1.13	29	•	
30182-12-10	3/4x14	5/8	2.61	66	1-1/16	1.16	29		
30182-12-12	3/4x14	3/4	2.61	66	1-1/16	1.16	29	•	•



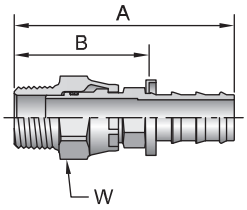
view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

31382

Male NPTF Pipe - Swivel

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	W inch	B inch	B mm	Additional Material Brass (B)
31382-4-4	1/4x18	1/4	1.60	41	9/16	0.85	22	
31382-6-6	3/8x18	5/16	1.79	45	11/16	0.89	23	
31382-8-8	1/2x14	13/32	2.20	56	7/8	1.15	29	
31382-8-10	1/2x14	1/2	3.50	90	7/8	2.05	52	•
31382-12-12	3/4x14	5/8	3.47	88	1-1/4	2.02	51	



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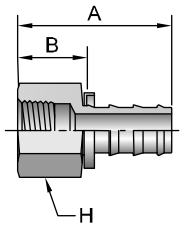
O-Ring not compatible with Phosphate Ester fluids.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 807, 821, 821FR, 836

30282

Female NPTF Pipe - Rigid



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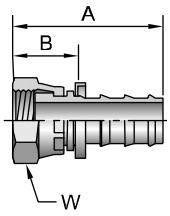
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm	Additional Material Brass (B)
30282-4-4	1/4x18	1/4	1.56	40	3/4	0.81	21	•
30282-6-6	3/8x18	3/8	1.82	46	7/8	0.92	23	•

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

37G82

Female NPSM Pipe - Gasket Joint - Swivel



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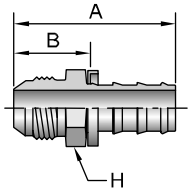
# Part Number	Gasket	Thread inch	Hose I.D. inch	A inch	A mm	W inch	B inch	B mm
37G82-4-4	07G-4	1/4x18	1/4	1.55	39	11/16	0.80	20
37G82-4-6	07G-4	1/4x18	3/8	1.70	43	11/16	0.80	20
37G82-6-6	07G-6	3/8x18	3/8	1.75	44	7/8	0.85	22
37G82-8-8	07G-8	1/2x14	1/2	2.07	53	1	1.02	26
37G82-8-10	07G-8	1/2x14	5/8	2.47	63	1	1.02	26
37G82-12-12	07G-12	3/4x14	3/4	2.54	65	1-1/4	1.09	28

Textile gasket included with fitting.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

30382

Male JIC 37° - Rigid



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm	Additional Material Brass (B)
30382-4-4	1/4	7/16x20	1/4	1.56	40	1/2	0.81	21	
30382-6-6	3/8	9/16x18	3/8	1.78	45	5/8	0.88	22	•
30382-8-8	1/2	3/4x16	1/2	2.06	52	3/4	1.01	26	
30382-12-12	3/4	1-1/16x12	3/4	2.72	69	1-1/8	1.27	32	

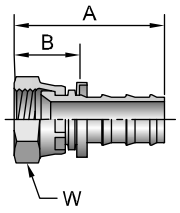
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 807, 821, 821FR, 836

30682

Female JIC 37˚ - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	W inch	B inch	B mm	Additional Material Brass (B)	Additional Material Stainless Steel (C)
30682-4-4*	1/4	7/16x20	1/4	1.52	39	9/16	0.77	20	Link	•
30682-5-4*	5/16	1/2x20	1/4	1.58	40	5/8	0.83	21	Link	
30682-6-6	3/8	9/16x18	3/8	1.75	44	11/16	0.85	22	Link	•
30682-6-8	3/8	9/16x18	1/2	1.90	48	11/16	0.85	22	Link	
30682-8-6*	1/2	3/4x16	3/8	1.87	47	7/8	0.97	25	Link	
30682-8-8*	1/2	3/4x16	1/2	2.02	51	7/8	0.97	25	Link	•
30682-10-10*	5/8	7/8x14	5/8	2.54	65	1	1.09	28	Link	•
30682-12-12	3/4	1-1/16x12	3/4	2.65	67	1-1/4	1.20	30	Link	•



view on web page

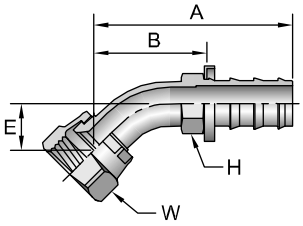
***NOTE:** These parts are dual seat and may be used for either 37˚ or 45˚ flare

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

33782

Female JIC 37˚ - Swivel - 45˚ Elbow - Short Drop

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	W inch	B inch	B mm
33782-4-4*	1/4	7/16x20	1/4	1.74	44	0.39	10	7/16	9/16	0.99	25
33782-6-6	3/8	9/16x18	3/8	1.99	51	0.43	11	1/2	11/16	1.09	28
33782-8-8*	1/2	3/4x16	1/2	2.58	66	0.55	14	5/8	7/8	1.53	39
33782-10-10*	5/8	7/8x14	5/8	3.03	77	0.65	17	3/4	1	1.58	40



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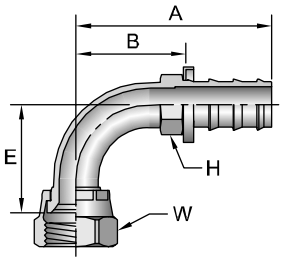
***NOTE:** These parts are dual seat and may be used for either 37˚ or 45˚ flare

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 807, 821, 821FR, 836

33982

Female JIC 37˚ - Swivel - 90˚ Elbow - Short Drop



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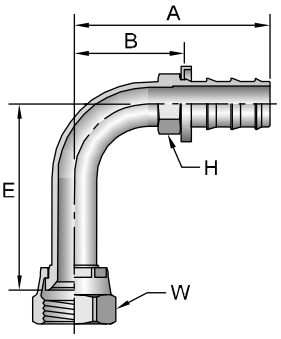
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	W inch	B inch	B mm
33982-4-4*	1/4	7/16x20	1/4	1.55	39	0.83	21	---	9/16	0.80	20
33982-6-6	3/8	9/16x18	3/8	1.86	47	0.91	23	---	11/16	0.95	24
33982-8-8*	1/2	3/4x16	1/2	2.16	55	1.14	29	5/8	7/8	1.28	32
33982-10-10*	5/8	7/8x14	5/8	2.76	70	1.26	32	3/4	1	1.31	33
33982-12-12	3/4	1-1/16x12	3/4	3.27	83	1.89	48	7/8	1-1/4	1.82	46

***NOTE:** These parts are dual seat and may be used for either 37˚ or 45˚ flare

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

34182

Female JIC 37˚ - Swivel - 90˚ Elbow - Long Drop



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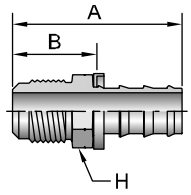
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	W inch	B inch	B mm
34182-4-4*	1/4	7/16x20	1/4	1.79	45	1.80	46	7/16	9/16	1.04	26
34182-6-6	3/8	9/16x18	3/8	1.97	50	2.18	55	1/2	11/16	1.07	27

***NOTE:** These parts are dual seat and may be used for either 37˚ or 45˚ flare

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

30482

Male SAE 45˚ - Rigid



view on web page

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
30482-4-4B	1/4	7/16x20	1/4	1.51	38	7/16	0.76	19
30482-5-4B	5/16	1/2x20	1/4	1.61	41	9/16	0.86	22
30482-6-6B	3/8	5/8x18	3/8	1.84	47	5/8	0.94	24
30482-8-8B	1/2	3/4x16	1/2	2.15	55	3/4	1.10	28

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Notch in nut signifies 45˚ flare.

Use with hoses: 801, 807, 821, 821FR, 836

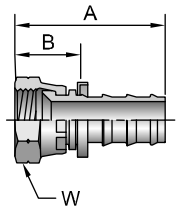
30882*

Female SAE 45˚ - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	W inch	B inch	B mm	Additional Material Brass (B)
30882-6-6	3/8	5/8x18	3/8	1.81	46	3/4	0.91	23	•
30882-12-12	3/4	1-1/16x14	3/4	2.65	67	1-1/4	1.20	30	•

***NOTE:** Additional sizes are available with dual 37˚ and 45˚ seats in the 30682 section.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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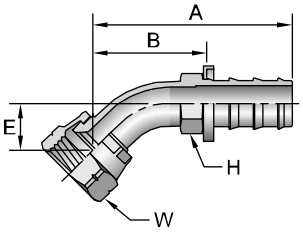
37782*

Female SAE 45˚ - Swivel - 45˚ Elbow

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	W inch	B inch	B mm
37782-6-6	3/8	5/8x18	3/8	2.08	53	0.39	10	1/2	3/4	1.18	30

***NOTE:** Additional sizes are available with dual 37˚ and 45˚ seats in the 33782 section.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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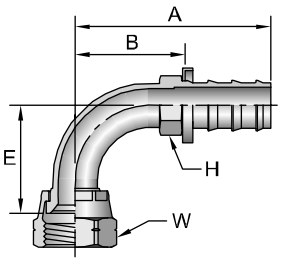
37982*

Female SAE 45˚ - Swivel - 90˚ Elbow

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	W inch	B inch	B mm
37982-6-6	3/8	5/8x18	3/8	1.98	50	0.85	22	1/2	3/4	1.08	27

***NOTE:** Additional sizes are available with dual 37˚ and 45˚ seats in the 33982 section.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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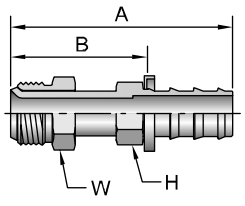
Notch in nut signifies 45˚ flare.

Use with hoses: 801, 807, 821, 821FR, 836

32882

Male Inverted SAE 45˚- Swivel



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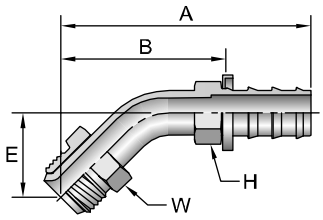
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	W inch	B inch	B mm
32882-3-4	3/16	3/8x24	1/4	2.15	55	3/8	3/8	1.40	36
32882-4-4	1/4	7/16x24	1/4	2.15	55	7/16	7/16	1.40	36
32882-5-4	5/16	1/2x20	1/4	2.31	59	7/16	1/2	1.56	40
32882-6-6	3/8	5/8x18	3/8	2.58	66	1/2	5/8	1.68	43
32882-8-8	1/2	3/4x18	1/2	2.82	72	5/8	3/4	1.77	45

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

36782

Male Inverted SAE 45˚- Swivel - 45˚ Elbow



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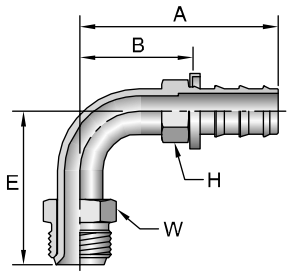
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	W inch	B inch	B mm
36782-6-6	3/8	5/8x18	3/8	2.64	67	0.94	24	1/2	5/8	1.74	44

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

36982

Male Inverted SAE 45˚ - Swivel - 90˚ Elbow



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	H inch	W inch	B inch	B mm
36982-6-6	3/8	5/8x18	3/8	2.30	58	1.69	43	1/2	5/8	1.40	36

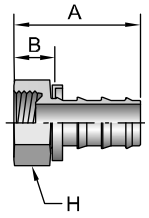
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 807, 821, 821FR, 836

32982

Female Inverted SAE 45˚ - Rigid

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
32982-4-4B	1/4	7/16x24	1/4	1.19	30	1/2	0.44	11
32982-5-4B	5/16	1/2x20	1/4	1.25	32	9/16	0.50	13
32982-6-6B	3/8	5/8x18	3/8	1.44	37	3/4	0.54	14
32982-8-8B	1/2	3/4x18	1/2	1.62	41	7/8	0.57	14



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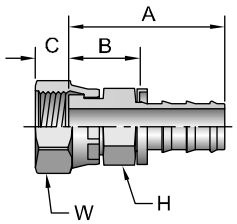
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

3JC82

Female Seal-Lok® - Swivel - Short

ISO 12151-1 - SWSA

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	C inch	C mm	H inch	W inch	B inch	B mm	Additional Material Brass (B)	Additional Material Stainless Steel (C)
3JC82-4-4	1/4	9/16x18	1/4	1.40	36	0.32	8	9/16	11/16	0.65	17		•
3JC82-6-6	3/8	11/16x16	3/8	1.59	40	0.38	10	11/16	13/16	0.69	18		•
3JC82-8-6	1/2	13/16x16	3/8	1.65	42	0.38	10	13/16	15/16	0.76	19		
3JC82-8-8	1/2	13/16x16	1/2	1.80	46	0.43	11	13/16	15/16	0.75	19		•
3JC82-10-10	5/8	1x14	5/8	2.40	61	0.53	13	15/16	1-1/8	0.95	24		
3JC82-12-12	3/4	1-3/16x12	3/4	2.63	67	0.57	14	1-1/8	1-3/8	1.18	30		•



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When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

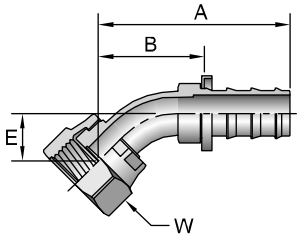
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

3J782

Female Seal-Lok® - Swivel - 45˚ Elbow

ISO 12151-1 - SWE45

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
3J782-4-4	1/4	9/16x18	1/4	1.74	44	0.39	10	11/16	0.99	25
3J782-6-6	3/8	11/16x16	3/8	1.99	51	0.43	11	13/16	1.09	28
3J782-8-8	1/2	13/16x16	1/2	2.41	61	0.59	15	15/16	1.36	35



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

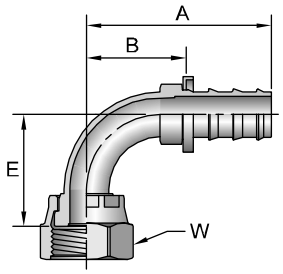
See Accessories Section for O-Rings.

Use with hoses: 801, 807, 821, 821FR, 836

3J982

Female Seal-Lok® - Swivel - 90˚ Elbow - Short Drop

ISO 12151-1 - SWES90



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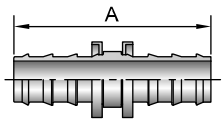
# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
3J982-4-4	1/4	9/16x18	1/4	1.55	39	0.83	21	11/16	0.80	20
3J982-6-6	3/8	11/16x16	3/8	1.85	47	0.91	23	13/16	0.95	24
3J982-6-8	3/8	11/16x16	1/2	2.09	53	0.91	23	13/16	1.04	26
3J982-8-6	1/2	13/16x16	3/8	1.94	49	1.14	29	15/16	1.04	26
3J982-8-8	1/2	13/16x16	1/2	2.16	55	1.14	29	15/16	1.11	28
3J982-10-10	5/8	1x14	5/8	2.76	70	1.26	32	1-1/8	1.31	33
3J982-12-12	3/4	1-3/6x12	3/4	3.27	83	1.89	48	1-3/8	1.82	46

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

38282

Push-Lok Union



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# Part Number	Hose I.D. inch	A inch	A mm	Additional Material Brass (B)
38282-4-4	1/4	1.80	46	•
38282-6-6	3/8	2.15	55	•
38282-8-8	1/2	2.51	64	•
38282-10-10	5/8	3.31	84	•
38282-12-12	3/4	3.31	84	•
38282-16-16	1	3.31	84	•

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

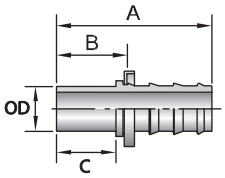
See Accessories Section for O-Rings.

Use with hoses: 801, 807, 821, 821FR, 836

33482

Female Seal-Lok® - Swivel - 90˚ Elbow - Short Drop

# Part Number	OD inch	Hose I.D. inch	A inch	A mm	B inch	B mm	C inch	C mm	Additional Material Brass (B)	Additional Material Steel (C)
33482-4-4	1/4	1/4	1.89	48	1.13	29	1.02	26	•	•
33482-6-6	3/8	3/8	2.23	56	1.33	34	1.22	31	•	•
33482-6-8	3/8	1/2	2.39	61	1.34	34	1.22	31	•	
33482-8-8	1/2	1/2	2.16	55	1.10	28	0.97	25	•	•
33482-8-12	1/2	3/4	2.70	69	1.25	32	1.00	25	•	
33482-10-10	5/8	5/8	2.62	66	1.17	30	1.00	25	•	•
33482-12-8	3/4	1/2	2.35	60	1.30	33	1.00	25		
33482-12-12	3/4	3/4	2.62	66	1.17	30	1.00	25	•	•
33482-12-16	3/4	1	2.63	67	1.18	30	1.00	25		
33482-16-12	1	3/4	3.25	83	1.80	46	1.50	38		
33482-16-16	1	1	3.13	79	1.68	43	1.50	38	•	



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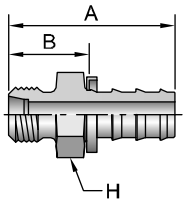
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

3D082

Male Metric L - Rigid - (24˚ Cone)

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
3D082-6-4	6	M12x1,5	1/4	1.34	34	12	0.55	14
3D082-8-4	8	M14x1,5	1/4	1.38	35	14	0.59	15
3D082-10-6	10	M16x1,5	3/8	1.57	40	17	0.63	16
3D082-12-6	12	M18x1,5	3/8	1.61	41	19	0.67	17



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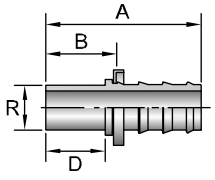
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

31D82

Male Standpipe Metric L - Rigid

# Part Number	R mm	Hose I.D. inch	A inch	A mm	D inch	D mm	B inch	B mm
31D82-6-4	6	1/4	1.73	44	0.87	22	0.98	25
31D82-8-4	8	1/4	1.73	44	0.87	22	0.98	25
31D82-10-6	10	3/8	1.93	49	0.91	23	1.02	26
31D82-12-6	12	3/8	1.93	49	0.91	23	1.06	27
31D82-18-10	18	5/8	2.64	67	1.02	26	1.10	28
31D82-22-12	22	3/4	2.72	69	1.10	28	1.22	31



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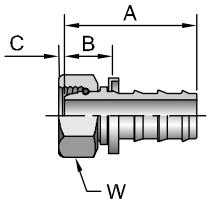
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 807, 821, 821FR, 836

39282

Female BSP Parallel Pipe - Swivel - (60˚ Cone)



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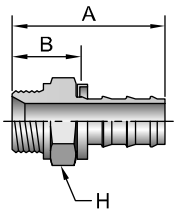
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	C inch	C mm	W mm	B inch	B mm	Additional Material Brass (B)
39282-4-4	1/4x19	1/4	1.34	34	0.22	6	17	0.55	14	
39282-6-6	3/8x19	3/8	1.50	38	0.26	7	19	0.55	14	•
39282-8-8	1/2x14	1/2	1.77	45	0.28	7	27	1.06	27	
39282-12-12	3/4x14	3/4	2.13	54	0.35	9	36	1.42	36	

When measuring overall length to the end of the nut, B + C dimensions must be used to calculate cut-off allowances.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

3D982

Male BSP Parallel Pipe - Rigid - (60˚ Cone)



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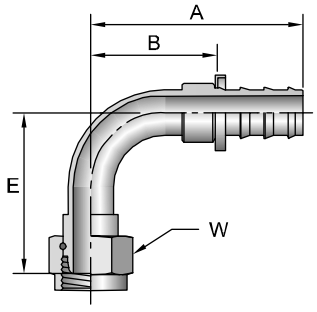
# Part Number	Hose I.D. inch	A inch	A mm	H mm	B inch	B mm
3D982-2-4	1/4	1.42	36	14	0.63	16
3D982-4-4	1/4	1.61	41	19	0.83	21
3D982-4-6	3/8	1.77	45	19	0.83	21
3D982-6-6	3/8	1.77	45	22	0.87	22
3D982-8-8	1/2	2.09	53	27	0.98	25
3D982-8-10	5/8	2.44	62	27	0.94	24
3D982-12-12	3/4	2.56	65	32	1.06	27

Bonded seal required if fitting is used directly in a port. See Accessories Section.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

3B282

Female BSP Parallel Pipe - Swivel - 90˚ Elbow - (60˚ Cone)



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
3B282-4-4	1/4x19	1/4	1.65	42	1.02	26	17	1.02	26
3B282-6-6	3/8x19	3/8	2.09	53	1.18	30	19	1.18	30
3B282-8-8	1/2x14	1/2	2.56	65	1.57	40	27	1.57	40
3B282-10-10	5/8x14	5/8	2.99	76	1.57	40	30	1.57	40

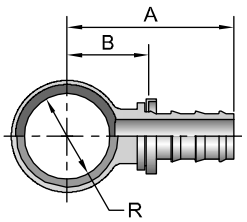
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 807, 821, 821FR, 836

34982

DIN Metric Banjo

# Part Number	R mm	Hose I.D. inch	A inch	A mm	B inch	B mm
34982-8-4	8	1/4	1.42	36	0.63	16
34982-10-4	10	1/4	1.50	38	0.71	18
34982-12-4	12	1/4	1.57	40	0.79	20
34982-12-6	12	3/8	1.73	44	0.79	20
34982-14-4	14	1/4	1.65	42	0.87	22
34982-14-6	14	3/8	1.85	47	0.91	23
34982-16-6	16	3/8	1.93	49	0.98	25
34982-18-8	18	1/2	2.17	55	1.06	27



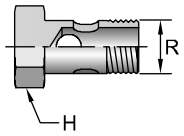
view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

AM

Banjo Bolt with DIN Metric Thread

# Part Number	R Thread mm		H mm	Copper Washer (2)
AM-03	8	M8x1	12	853009-8
AM-04	10	M10x1	14	853009-10
AM-06	12	M12x1.5	17	853009-12
AM-08	14	M14x1.5	19	853009-14
AM-10	16	M16x1.5	22	853009-16
AM-13	18	M18x1.5	24	853009-18
AM-16	22	M22x1.5	27	853009-22
AM-20	26	M26x1.5	32	853009-26
AM-30	30	M30x1.5	36	853009-30



Two (2) copper washers per bolt must be ordered separately.

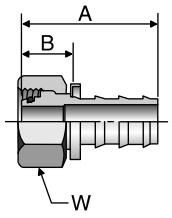
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 807, 821, 821FR, 836

3CA82

Female Metric L - Swivel - (24° Cone with O-Ring)

ISO 12151-2 - SWS



view on web page

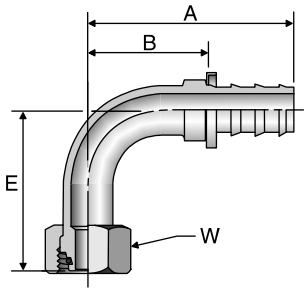
# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	W mm	B inch	B mm
3CA82-8-4	8	M14x1,5	1/4	1.42	36	17	0.67	17
3CA82-10-6	10	M16x1,5	3/8	1.57	40	19	0.67	17
3CA82-12-6	12	M18x1,5	3/8	1.57	40	22	0.67	17
3CA82-15-8	15	M22x1,5	1/2	1.73	44	27	0.71	18
3CA82-22-12	22	M30x2	3/4	2.28	58	36	0.83	21

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

3CF82

Female Metric L - Swivel - 90° Elbow - (24° Cone with O-Ring)

ISO 12151-2 - SWE



view on web page

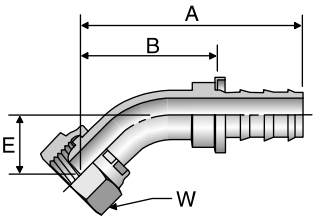
# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
3CF82-12-6	12	M18x1,5	3/8	1.93	49	1.42	36	22	1.06	27

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

3C482

Female Metric L - Swivel - 45° Elbow - (Ball Nose)

End Connection per ISO 8434-1-SWOE



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# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
3C482-10-6B	10	M16x1,5	3/8	2.28	58	0.71	18	19	1.38	35

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Use with hoses: 801, 807, 821, 821FR, 836

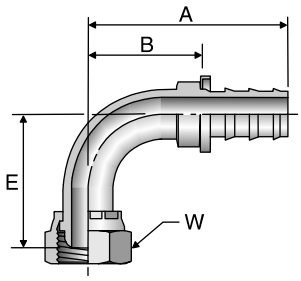
3C582

Female Metric L - Swivel - 90° Elbow - (Ball Nose)

End Connection per ISO 8434-1-SWOE

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	E inch	E mm	W mm	B inch	B mm
3C582-10-6B	10	M16x1,5	3/8	1.93	49	1.30	33	19	1.06	27
3C582-15-8B	15	M22x1,5	1/2	2.36	60	1.54	39	27	1.34	34

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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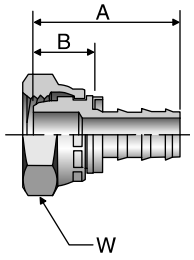
3C382

Female Metric L - Swivel - (Ball Nose)

End Connection per ISO 8434-1-SWOS

# Part Number	Thread mm		Hose I.D. inch	A inch	A mm	W mm	B inch	B mm
3C382-10-6B	10	M16x1,5	3/8	1.50	38	19	0.59	15

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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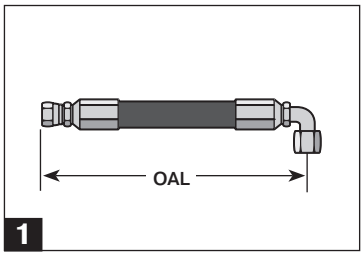
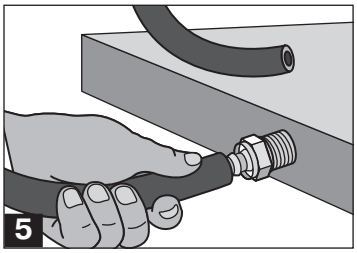
Use with hoses: 801, 807, 821, 821FR, 836



OAL : Straight to 90˚ Elbow

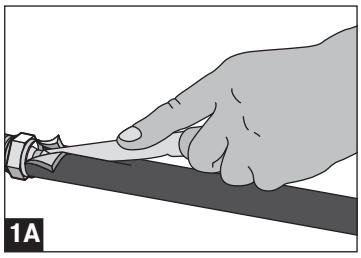
82 Series

Assembly Instructions



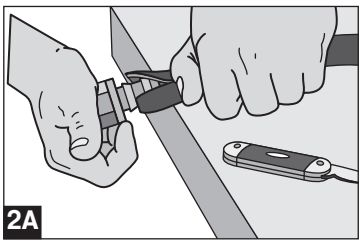
1. Identify over all length (OAL) of hose assembly and the cut off allowance (COA) length of fitting(s) on hose ends by use of the fitting data table.
2. Properly measure and mark hose. Cut hose squarely with a Parker Push-Lok cut-off tool or a sharp knife.
3. Lubricate the Push-Lok fitting, hose I.D., or both with light oil or soapy water only - DO NOT USE HEAVY OIL OR GREASE.
4. Insert fitting into hose until first barb is in the hose.
5. Place end fitting against a flat object such as a work bench or wall. Grip hose approximately one inch from end and push with a steady force until the end of the hose is covered by the yellow plastic cap.

Disassembly Instructions



1A. Leave fitting in place, and cut hose approximately one inch lengthwise from the yellow plastic cap. IMPORTANT: Be careful not to nick barbs when cutting hose.

2A. Grip hose firmly and give it a sharp downward tug away from the fitting for disassembly.

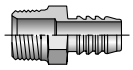
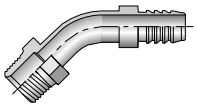
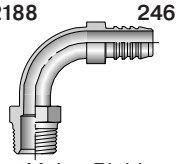
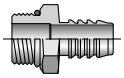
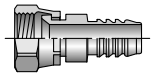
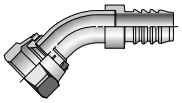
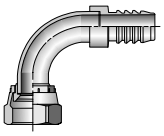
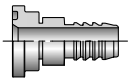
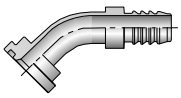
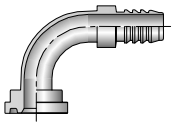
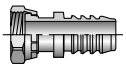
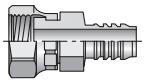
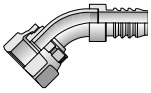
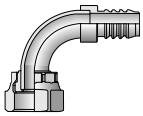
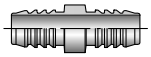
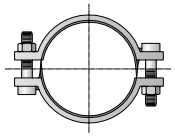


Caution: Insert the Push-Lok fitting all the way into the Push-Lok hose until the cut end is concealed by the yellow plastic cap.

Caution: Sealing integrity may be damaged by use of exterior clamps.

Use with hoses: 801, 807, 821, 821FR, 836

81 & 88 Series Fittings

NPTF Pipe	0188 246  *Male - Rigid*	3188 246  *Male - Rigid 45˚ Elbow*	2188 246  *Male - Rigid 90˚ Elbow*	**Straight Thread**	0588 247  *Male - Rigid*
JIC 37˚	0688 247  *Female - Swivel*	3788 247  *Female - Swivel*	3988 248  *Female - Swivel*	**Flange**	1588 248  *Flange Heads*
1788 249  *45˚ Elbow*	1988 249  *90˚ Elbow*	**Seal-Lok® O-Ring Face Seal**	JS88 249  *Female - Swivel Long*	JC88 250  *Female - Swivel Short*	J788 250  *Female - Swivel 45˚ Elbow*
J988 250  *Female - Swivel 90˚ Elbow*	**Union**	8888 251  *Union*	**81 Series Crimp Shell**	**81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series fittings.**	10081 251 *81 Series Crimp Shell*
Hose Clamp	88HC 251 *Hose Clamp*	88HC-H 251 *Hose-Clamp*	88DB 251  *Heavy Duty Clamp*		

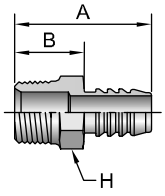
Product Definition

An 81 series fitting includes any 88 series body plus an 81 series crimp shell (0081). An 88 series fitting includes an 88 series body plus a hose clamp (88HC, 88HC-H or 88DB). To configure either an 81 or 88 series fitting, you will need to order the components separately.

Use with hoses: 811, 811HT, 881

0188

Male NPTF Pipe - Rigid



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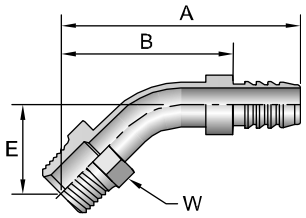
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
0188-12-12	3/4x14	3/4	2.25	57	1-1/8	1.13	29
0188-16-16	1x11-1/2	1	2.75	70	1-3/8	1.37	35
0188-20-20	1-1/4x11-1/2	1-1/4	3.05	77	1-3/4	1.47	37
0188-20-24	1-1/4x11-1/2	1-1/2	3.21	82	1-3/4	1.47	37
0188-24-24	1-1/2x11-1/2	1-1/2	3.24	82	2	1.50	38
0188-32-32	2x11-1/2	2	3.49	89	2-1/2	1.66	42

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

3188

Male NPTF Pipe - Rigid - 45˚ Elbow



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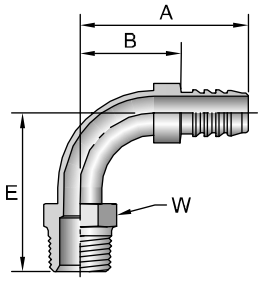
# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
3188-16-16	1x11-1/2	1	4.12	105	1.63	41	1-3/8	2.74	70
3188-20-20	1-1/4x11-1/2	1-1/4	4.54	115	1.77	45	1-3/4	2.96	75

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

2188

Male NPTF Pipe - Rigid - 90˚ Elbow



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# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
2188-16-16	1x11-1/2	1	3.35	85	3.18	81	1-3/8	1.97	50
2188-20-20	1-1/4x11-1/2	1-1/4	3.80	97	3.41	87	1-3/4	2.21	56
2188-24-24	1-1/2x11-1/2	1-1/2	4.20	107	3.61	92	2	2.46	62
2188-32-32	2x11-1/2	2	4.86	123	4.23	107	2-1/2	3.03	77

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

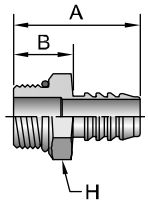
See page 251 for 81 Series crimp shells and clamps for 88 Series fittings.
See Equipment Section for assembly and crimping instructions.
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 811, 811HT, 881

0588

Male SAE Straight Thread with O-Ring - Rigid

# Part Number	Thread inch	Hose I.D. inch	A inch	A mm	H inch	B inch	B mm
0588-12-12	1-1/16x12	3/4	2.13	54	1-1/4	1	25
0588-16-16	1-5/16x12	1	2.38	60	1-1/2	1	25
0588-20-20	1-5/8x12	1-1/4	2.59	66	1-7/8	1	25



WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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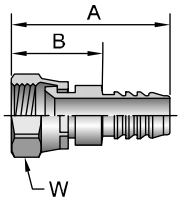
0688

Female JIC 37° - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	W inch	B inch	B mm
0688-12-12	3/4	1-1/16x12	3/4	2.66	68	1-1/4	1.53	39
0688-16-12	1	1-5/16x12	3/4	1.86	47	1-1/2	1.38	35
0688-16-16	1	1-5/16x12	1	2.72	69	1-1/2	1.34	34
0688-20-20	1-1/4	1-5/8x12	1-1/4	3.34	85	2	1.75	44
0688-24-24	1-1/2	1-7/8x12	1-1/2	3.67	93	2-1/4	1.93	49
0688-32-32	2	2-1/2x12	2	4.14	105	2-7/8	2.31	59



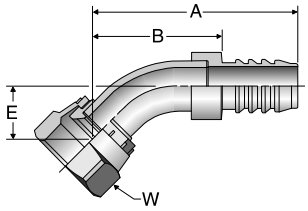
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

view on web page

3788

Female JIC 37° - Swivel

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
3788-16-16	1	1-5/16x12	1	3.51	89	0.90	23	1-1/2	2.13	54
3788-20-20	1-1/4	1-5/8x12	1-1/4	3.97	101	1.19	30	2	2.38	60



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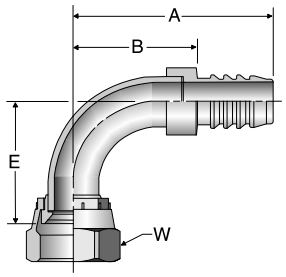
view on web page

See page 251 for 81 Series crimp shells and clamps for 88 Series fittings.
See Equipment Section for assembly and crimping instructions.
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 811, 811HT, 881

3988

Female JIC 37° - Swivel



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
3988-16-16	1	1-5/16x12	1	3.48	88	2.14	54	1-1/2	2.10	53
3988-20-20	1-1/4	1-5/8x12	1-1/4	3.81	97	2.59	66	2	2.22	56
3988-24-24	1-1/2	1-7/8x12	1-1/2	4.21	107	2.81	71	2-1/4	2.47	63

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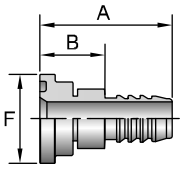
1588

SAE Code 61 Flange Head

ISO 12151-3 - S - L



view on web page

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	F inch	B inch	B mm
1588-16-16	1	1	2.57	65	1-3/4	1.19	30
1588-20-20	1-1/4	1-1/4	3.37	86	2	1.78	4
1588-24-24	1-1/2	1-1/2	3.78	96	2-3/8	2.04	52
1588-32-32	2	2	4.32	110	2-13/16	2.49	63
1588-48-40	3	2-1/2	4.62	117	4	2.79	71

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See page 251 for 81 Series crimp shells and clamps for 88 Series fittings.
See Equipment Section for assembly and crimping instructions.
See Accessories Section for O-Rings and Flange Kits.

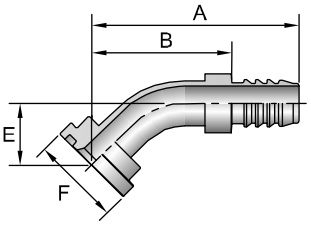
Use with hoses: 811, 811HT, 881

1788

SAE Code 61 Flange Head - 45˚ Elbow

ISO 12151-3 - E45S - L (1 Piece: ISO 12151-3 - E45M - L)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1788-16-16	1	1	3.55	90	1.06	27	1-3/4	2.17	55
1788-20-20	1-1/4	1-1/4	3.90	99	1.13	29	2	2.31	59
1788-24-24	1-1/2	1-1/2	4.15	105	1.11	28	2-3/8	2.41	61
1788-32-32	2	2	4.58	116	1.25	32	2-13/16	2.75	70



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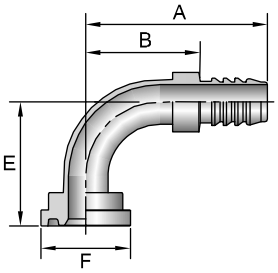
1988

SAE Code 61 Flange Head - 90˚ Elbow

ISO 12151-3 - E90S - L (1 Piece: ISO 12151-3 - E90M - L)

# Part Number	Flange inch	Hose I.D. inch	A inch	A mm	E inch	E mm	F inch	B inch	B mm
1988-16-16	1	1	3.35	85	2.37	60	1-3/4	1.97	50
1988-20-20	1-1/4	1-1/4	3.80	97	2.50	64	2	2.21	56
1988-24-24	1-1/2	1-1/2	4.20	107	2.74	70	2-3/8	2.46	62
1988-32-32	2	2	4.86	123	3.19	81	2-13/16	3.03	77
1988-40-40	2-1/2	2-1/2	5.52	140	3.75	95	3-5/16	3.69	94



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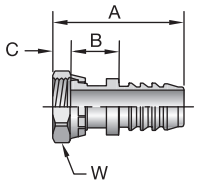
JS88

Female Seal-Lok® - Swivel - Long

ISO - 12151-1 - SWSB

# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	W inch	B inch	B mm	C inch	C mm
JS88-20-20	1-1/4	1-11/16x12	1-1/4	3.21	82	1-7/8	1.62	41,1	0.59	15,0
JS88-24-24	1-1/2	2x12	1-1/2	3.47	88	2-1/4	1.73	43,9	0.62	15,7



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WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

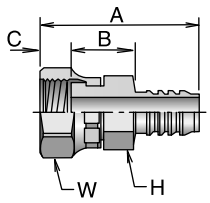
See page 251 for 81 Series crimp shells and clamps for 88 Series fittings.
See Equipment Section for assembly and crimping instructions.
See Accessories Section for O-Rings and Flange Kits.

Use with hoses: 811, 811HT, 881

JC88

Female Seal-Lok - Swivel - Short

ISO 12151- 1 - SWSA



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	C inch	H inch	W inch	B inch	B mm
JC88-12-12	3/4	1-3/16x12	3/4	2.80	71	0.57	1-1/8	1-3/8	1.70	43
JC88-16-12	1	1-7/16x12	3/4	2.82	72	0.58	1-3/8	1-5/8	1.69	43
JC88-16-16	1	1-7/16x12	1	3.07	78	0.59	1-3/8	1-5/8	1.69	43
JC88-20-16	1-1/4	1-11/16x12	1	3.08	78	0.59	1-7/8	1-5/8	1.70	43
JC88-20-20	1-1/4	1-11/16x12	1-1/4	3.29	84	0.59	1-7/8	1-7/8	1.70	43

When measuring overall length to the end of the nut, B+C dimensions must be used to calculate cut-off allowance.

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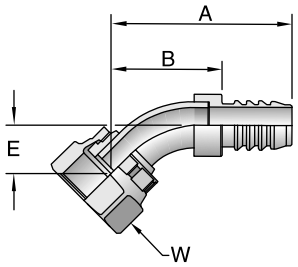
J788

Female Seal-Lok - Swivel - 45˚ Elbow



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
J788-16-16	1	1-7/16x12	1	3.79	96	0.94	24	1-5/8	2.41	61
J788-20-20	1-1/4	1-11/16x12	1-1/4	3.71	94	0.94	24	1-7/8	2.12	54

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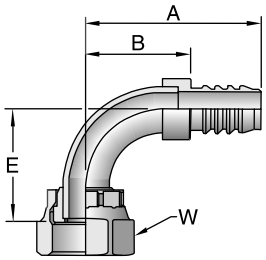
J988

Female Seal-Lok - Swivel - 90˚ Elbow - Short Drop



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# Part Number	Thread inch		Hose I.D. inch	A inch	A mm	E inch	E mm	W inch	B inch	B mm
J988-12-12	3/4	1-3/16x12	3/4	2.85	72	1.83	46	1-3/8	1.72	44
J988-16-16	1	1-7/16x12	1	3.74	95	2.19	56	1-5/8	2.36	60
J988-16-16C	1	1-7/16x12	1	3.75	95	2.22	56	1-5/8	2.37	60
J988-20-20	1-1/4	1-11/16x12	1-1/4	4.26	108	2.51	64	1-7/8	2.67	68
J988-24-24	1-1/2	2x12	1-1/2	5.27	134	2.68	68	2-1/4	3.53	90

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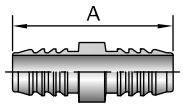
Use with hoses: 811, 811HT, 881

8888

Union (Hose Splicer)

# Part Number	Hose I.D. inch	A inch	A mm
8888-16-16	1	3.21	82
8888-20-20	1-1/4	3.61	92



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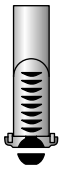
88HC

Hose Clamp (Worm Gear)

# Part Number	Hose I.D. inch
88HC-12	3/4
88HC-16	1
88HC-20	1-1/4
88HC-24	1-1/2
88HC-32	2



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See page 311 for more information.

10081

Crimp Shell

# Part Number	Hose I.D. inch
10081-12	3/4
10081-16	1
10081-20	1-1/4
10081-24	1-1/2
10081-32	2

view on web page

81 Series consists of a 10081 crimp shell and is completed by adding any 88 Series Fittings. See Equipment Section for complete 81 Series Assembly and Crimping instructions.

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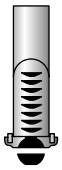
88HC-H

Hose Clamp

(High Torque Worm Gear)

# Part Number	Hose I.D. inch
88HC-16H	1
88HC-20H	1-1/4
88HC-32H	2
88HC-40H	2-1/2
88HC-48H	3



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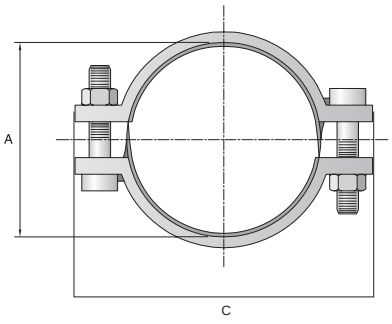
See page 311 for more information.

88DB

Heavy Hose Clamp (Double Bolt)

# Part Number	Hose I.D. inch
88DB-12	3/4
88DB-16	1
88DB-20	1-1/4
88DB-24	1-1/2
88DB-32	2



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See page 311 for more information.

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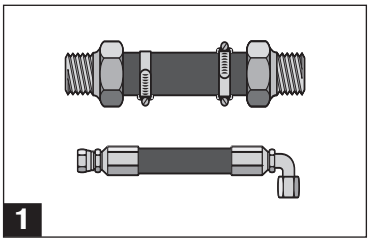
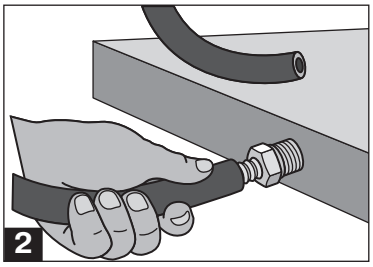
Use with hoses: 811, 811HT, 881



88 Series

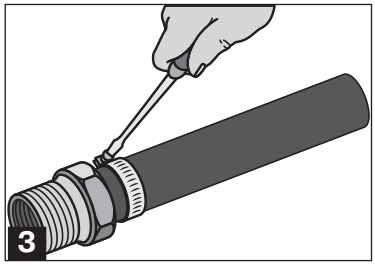
Hose Assembly Instructions

1. Identify Over All Length (OAL) of hose assembly and the Cut Off Allowance (COA) length of fitting(s) by use of the fitting data table. Properly measure and mark hose. Cut hose cleanly and squarely to length. Trim any exposed wire
reinforcement to prevent injury in service.

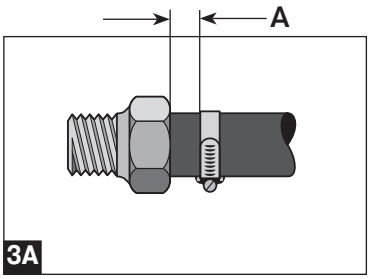


2. Slide clamp(s) onto hose and lubricate hose. Push hose onto fitting until hose bottoms against stop ring or hex.

3. Position hose clamp(s) as shown and secure with a screwdriver or wrench to tightening torque listed on page D-37. Maintain "A" dimensions as shown below for proper clamp positioning of both HC clamps and HC-H clamps.



3A. Evenly attach double bolt clamps for maximum grip.

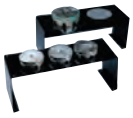


Hose I.D. inch	A inch	A mm
-12	1/4	6.35
-16	3/8	9.53
-20	3/8	9.53
-24	1/2	12.70
-32	1/2	12.70

Note: For permanent installation of 88 Series Fittings, an 81 Series Crimp Shell must be added. See Equipment Section for assembly and crimping instructions.

Use with hoses: 811, 811HT, 881

Equipment

Crimpers	Karrykrimp 256	Karrykrimp 256 Bench Mount	Karrykrimp 2 257	Karrykrimp 2 257 Bench Mount	Parkrimp 1 258
Parkrimp 2 259	Phastkrimp 2 260	TH8-380 261	**Portable Pumps**	82C-0HP 263 *Hand Pump*	85C-0HP 263 *Hand Pump*
82C-0EP 264 *Electric Pump*	85C-0EP 264 *Electric Pump*	82C-0AP 264 *Air/Hydraulic Pump*	**Hose Cut-Off Machines**	86C-220V 270 and 86C-220V3	86C-110V 270
TH3-EM3-110V 270	**Hose Cleaning Kits**	TH6-10-HL-10-2 271 *Premium Hose Cleaning Kit*	TH6-10-EL-8 271 *Economy Hose Cleaning Kit*	**Accessories**	Parker Clean Seal 272
871522 273 *Handycut - Hose Cut-Off Machine*	881540 273 *Push-Lok Cut-Off & Assembly Tool*	TH9-1 273 *Hose Insertion Depth Blocks*	TH11-1 273 *Hose Cut-Off Tool*	80C-0DR 274 and 83C-0DR  *Die Storage Racks*	80C-SDR 274 *Swivel Die Rack*
TH2-7 274 *Fittings Push-On Stand*	TH2-7M25-6 274 TH2-7M25-8 *Mandrels - 25 Series*	Lubricant 275 *Accrolube High Efficiency*	Small Crimper 275 Hood	Large Crimper 275 Hood	

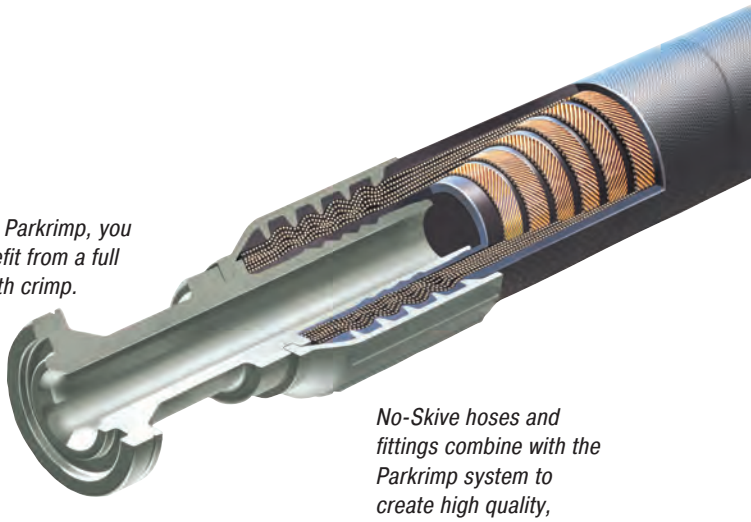
Hose Assemblies Are Easy With the Parkrimp System.

Since its introduction in 1980, the Parkrimp family of crimping machines has led the industry in ease of use and rugged durability.

When it comes to hose assemblies, no one puts it all together like Parker. From high-volume productivity to portable on-site assembly, we offer a variety of crimping machines, No-Skive hoses, and No-Skive fittings to meet your needs.

With Parkrimp equipment, anyone can make factory-quality hose assemblies quickly, easily, and cost effectively. Parkrimp machines are simple to operate and they're built to provide years of dependable service. Seven Parkrimp models – an entire family of crimpers – are available to meet your bench-mounted or portable needs, crimping straight or bent-stem fittings from 1/4" to 2" in diameter. Just use our No-Skive hoses and fittings to create leak-free hose assemblies whenever and wherever you need them.

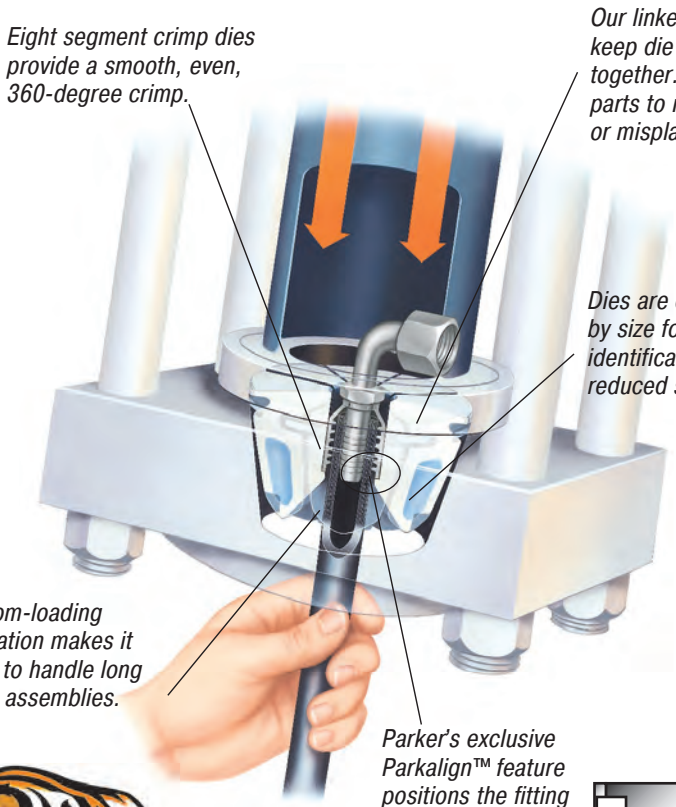
The complete system from one source: No-Skive hose, No-Skive fittings, and crimping machines with worldwide availability and service.



With Parkrimp, you benefit from a full length crimp.

No-Skive hoses and fittings combine with the Parkrimp system to create high quality, reliable hydraulic hose assemblies every time.

Our low profile design makes routing hose assemblies easy.



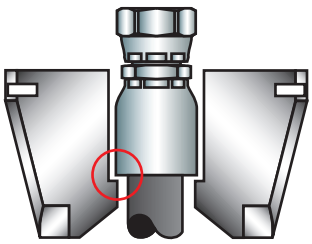
Eight segment crimp dies provide a smooth, even, 360-degree crimp.

Our linked crimp dies keep die segments together. No loose parts to mismatch or misplace.

Dies are color-coded by size for easy identification and reduced set-up time.

Bottom-loading operation makes it easy to handle long hose assemblies.

Parker's exclusive Parkalign™ feature positions the fitting in the dies perfectly every time.



Selecting the right die.

Once the proper Parker Hose and Fitting is selected that meets your application requirements, you will need to select the proper die to assemble them together.

Based on the hose size and approved fitting, select the proper color coded die, as called out in the chart below.

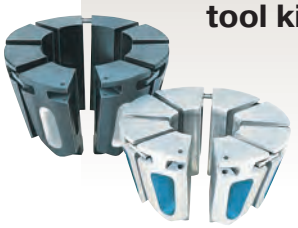
Example:

Hose	387-4
Fitting	43 Series
Die Body Color	Silver
Die Cavity Color (-4)	RED

Based on the Parkrimp machine being used to assemble the hose and fitting, individual die part numbers and tooling selection for your assembly can be found in Equipment Section of this catalog.

For general hose assembly instructions for all Parkrimp machines, please turn to pages 266 and 267. (An instructional video is a standard part of each Parkrimp machine shipped from the manufacturer.)

Parker Hose Products Division also offers a full line of crimping accessories, including conversion kits, cabinets, cut-off saws, push-on tables, die racks, and mandrel tool kits.



Hose Dash Size	Die Cavity Color Code	43 & 26 Series Die Body Color	77 Series Die Body Color	79 Series Die Body Color	76 Series Die Body Color	25 Series Die Body Color	81 Series Die Body Color
		Silver	Black	Olive Drab	Silver	Silver	Silver
-4	RED		N/A	N/A	N/A	N/A	N/A
-5	PURPLE		N/A	N/A	N/A	N/A	N/A
-6	YELLOW			N/A	N/A		N/A
-8	BLUE			N/A	N/A		N/A
-10	ORANGE			N/A	N/A	N/A	N/A
-12	GREEN			N/A		N/A	
-16	BLACK			N/A		N/A	
-20	WHITE				N/A	N/A	
-24	RED				N/A	N/A	
-32	GREEN				N/A	N/A	

Hose Dash Size	Die Cavity Color Code	HY Series Die Body Color
		Silver
-4	BROWN	
-5	BROWN	
-6	BROWN	
-8	BROWN	
-10	BROWN	
-12	BROWN	
-16	BROWN	

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Reference pages 256 through 262 for specific tool information regarding hose, fitting, and crimper combinations. Be sure to check **www.parker.com/crimpsource** for the most up to date information and crimp specifications.

Karrykrimp

The Karrykrimp is now available in a modular design with all the familiar Parkrimp System advantages.

The same unit now offers portability and bench mountability.

view on web page

Capability

- Not applicable to all hoses. Verify hose and fitting capability on Crimpsource
- Up to 1-1/4" ID 2 wire braided hose
- Up to 5/8" ID 4 wire spiral hose
- Only steel fittings

Features

- Portable, compact rugged design
- Numerous portable power unit options available
- Pivoting pusher design for easy die change out
- Increased height enables longer bent tube fittings to be crimped
- For use with 25, 26, 43, 81, and HY Series fittings

Specifications

- Dimensions: 15" wide, 12" deep, 30" high
- Weight: 70 lbs (without power unit)
- Rating: 30 ton force @ 10,000 psi maximum
- Crimp Cycle Time: 30 seconds 82C-0EP power unit (1/2" 43 Series)
- Reference pages 263 and 264 for information on available power units

Standard Equipment

Part Number			Description	Individual Part Number
82C-CHD	82C-061L	82C-KKB		
●	●	●	Crimp Head	82C-CHD
		●	Bench Power Unit Assembly	*85C-ZMS
●	●	●	Silver Die Ring	82C-R01
●	●	●	Black Die Ring	82C-R02
	●		Hose Assembly	85C-00L
	●		Stand Assembly	85C-STD
		●	Hose Assembly	85C-03L

Karrykrimp Bench Mount

view on web page

Capability

- Not applicable to all hoses. Verify hose and fitting capability on Crimpsource
- Up to 1-1/4" ID 2 wire braided hose
- Up to 5/8" ID 4 wire spiral hose
- Only steel fittings

Features

- Faster cycle times on bench mounted units
- Pivoting pusher design for easy die change out
- Compact bench mount design
- Increased height enables longer bent tube fittings to be crimped
- For use with 25, 26, 43, 81, and HY Series fittings

Specifications

- Dimensions: 19" wide, 23" deep, 27-1/2" high
- Weight: 220 lbs
- Rating: 30 ton force @ 10,000 psi maximum
- Crimp Cycle Time: 8 seconds (1/2" 43 Series straight fittings)
- Full Stroke Crimp Time: 15 seconds
- Hydraulic Fluid: Enerpac Oil
- This unit is designed to make about 200 crimps per day and is not designed to be a production crimper. Exceeding these suggested production amounts will significantly reduce the life expectancy of the crimper components.

***Note:** Power unit is factory wired to operate at 115 volt. A 20 amp dedicated circuit is required to operate at this voltage. Do not use extension cords to operate this machine.

The electric motor is dual voltage, 50/60 HZ, suitable for 208-230/115 volt. The motor and control circuit can be rewired by a qualified electrician to operate at alternate voltage. See motor name plate and wiring diagrams.

Optional Tooling

- Die Kit 43K-KDA (Includes 43 Series dies in sizes 1/4", 3/8", 1/2", 3/4", 1" and1-1/4" only)

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

SCAN FOR CRIMPSOURCE

Note:
- For crimp instructions, see pages 266 and 267.
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.
- Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Karrykrimp 2

The Karrykrimp 2 is now available in a modular design with all the familiar Parkrimp System advantages.

The same unit now offers portability and bench mountability.

view on web page

Capability

- Not applicable to all hoses. Verify hose and fitting capability on Crimpsource
- Up to 1-1/4" ID 2 wire braided hose
- Up to 1-1/4" ID 4 wire spiral hose
- Up to 1" ID 6 wire spiral hose

Features

- Portable, compact rugged design
- Numerous portable power unit options available
- Pivoting pusher design for easy die change out
- For use with 25,26, 43, 70, 71, 77, 81 and HY Series fittings

Specifications

- Dimensions: 14" wide, 14" deep, 31-1/2" high
- Weight: 120 lbs (without power unit)
- Rating: 60 ton force @ 10,000 psi maximum
- Cycle Time: 15 seconds with 85C-0EP power unit (1/2" 43 series)
- Reference pages 263 and 264 for information on available power units

Standard Equipment

Part Number			Description	Individual Part Number
85C-CHD	85C-061L	85C-KKB		
●	●	●	Crimp Head	85C-CHD
		●	Bench Power Unit Assembly	*85C-ZMS
●	●	●	Silver Die Ring	85C-R01
●	●	●	Black Die Ring	85C-R02
	●		Hose Assembly	85C-00L
	●		Stand Assembly	85C-STD
		●	Hose Assembly	85C-03L

Karrykrimp 2 Bench Mount

view on web page

Capability

- Not applicable to all hoses. Verify hose and fitting capability on Crimpsource
- Up to 1-1/4" ID 2 wire braided hose
- Up to 1-1/4" ID 4 wire spiral hose
- Up to 1" ID 6 wire spiral hose

Features

- Faster cycle times on bench mounted units
- Pivoting pusher design for easy die change out
- Compact bench mount design
- For use with 25, 26, 43, 70, 71, 77, 81 and HY Series fittings

Specifications

- Dimensions: 19" wide, 24" deep, 28" high
- Weight: 265 lbs
- Rating: 60 ton force @ 10,000 psi maximum
- Crimp Cycle Time: 15 seconds (1/2" 43 series straight fitting)
- Full Stroke Cycle Time: 24 seconds
- Hydraulic Fluid: Enerpac Oil
- This unit is designed to make about 200 crimps per day and is not designed to be a production crimper. Exceeding these suggested production amounts will significantly reduce the life expectancy of the crimper components.

***Note:** Power unit is factory wired to operate at 115 volt. A 20 amp dedicated circuit is required to operate at this voltage. Do not use extension cords to operate this machine.

The electric motor is dual voltage, 50/60 HZ, suitable for 208-230/115 volt. The motor and control circuit can be rewired by a qualified electrician to operate at alternate voltage. See motor name plate and wiring diagrams.

Optional Tooling

- Die Kit KK2-KDA (Includes 43 Series dies in sizes 1/4", 3/8", 1/2", 3/4", 1" and 1-1/4" and 77 Series dies in sizes 1/2", 5/8", 3/4" and 1" only.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

SCAN FOR CRIMPSOURCE

Note:
- For crimp instructions, see pages 266 and 267.
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.
- Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Parkrimp 1

view on web page

Features

- Compact bench mount design
- Engineered for optimal reliability, consistency, and durability
- All in one crimper and power unit design
- For use with 25, 26, 43, 81, and HY Series fittings

Specifications

- Dimensions: 26” wide, 20” deep, 25” high
- Weight: 275 lbs (with power unit)
- Rating: 30 ton force @ 3,000 psi maximum
- Full Cycle Time: 20 seconds
- Hydraulic Fluid: AW32 oil
- Note: Includes a 115/230 volt, 1 phase, 60 hertz power unit wired for 115V. This unit comes with a 20 AMP male plug and must be run on a dedicated 20 AMP circuit.

Standard Equipment

Part Number 80C-061	Description	Individual Part Number
●	Parkrimp 1 crimper with 115/230 volt, 1 phase, 60 Hz power unit wired for 115V	80C-181
●	Silver die ring	80C-R01
●	Black die ring	80C-R02

Crimping Capabilities:

For use with 25, 26, 43, 81, and HY fittings.

- Not applicable to all hoses. Verify hose and fitting capability on Crimpsource
- Up to 1” ID 1 and 2 spiral hose
- Up to 5/8” ID 4 spiral hose
- Up to 3/8” ID compact spiral hose

No Stainless Steel Fittings

Crimp Cycle Time: 15-20 seconds, depending on Pusher position. (1/2" 43 series straight fittings)

Note: Cycle times vary depending on hose, fitting styles and sizes.

This machine may require the use of the Molykote GN grease for larger hose and fittings. For best performance and longevity of crimper components, use the Molykote GN grease for all crimping.

This machine is designed to make about 200 crimps per day and is not designed for production use.Exceeding the suggested production amounts will significantly reduce the life expectancy of the machine components.

80C-061 Includes:

- Parkrimp 1 Crimper
- Die ring Silver
- Die ring Black
- No Dies - Order Separately

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

SCAN FOR CRIMPSOURCE

Note:

- For crimp instructions, see pages 266 and 267.
- Hose assemblies must be inspected for cleanliness and free of all foreign particles.
- Parker Hannifin will not accept responsibility for the operation of, or provide warranty coverage for, a crimper that is operated by a power unit other than equipment supplied by Parker Hannifin for the express purpose of operating the crimper.

Parkrimp 2

view on web page

Capability

- Not applicable to all hoses. Verify hose and fitting capability on Crimpsource
- Up to 2” ID 2 wire braided hose
- Up to 2” ID 4/6 wire spiral hose*

Features

- Easy to use vertical design
- Crimps full range of Parker hoses from 1/4” through 2” I.D.*
- Crimps both steel and stainless steel fittings*
- For use with 25, 26, 43, 70, 71, 76, 77, 79, 81 and HY Series fittings

Specifications

- Dimensions: 31” wide, 24” deep, 77” high
- Weight: 842 lbs (Head is 558 lbs and base is 284 lbs)
- Rating: 125 ton force @ 5,000 psi maximum
- Full Stroke Cycle Time: 30 seconds without adapter bowl, 20 seconds with adapter bowl
- Hydraulic oil: Enerpac oil

Standard Equipment

Part Number		Description	Individual Part Number
83C-081	83C-082		
●	●	Parkrimp 2 Crimper Head Assembly	83C-080
●		Parkrimp 2 Stand Assembly with 230/460 volt, 3 phase, 50/60 Hz power unit (wired for 230 volt)	83C-S40
	●	Parkrimp 2 Stand Assembly with 230 volt, 1 phase, 50/60 Hz power unit	83C-S20
●	●	Adapter Bowl	83C-OCB
●	●	Spacer Ring	83C-R02
●	●	Spacer Plate	83C-R02H

***Can crimp 77 Series stainless steel fittings up to 1-1/2”**

Optional Tooling

- Die Kit PK2-KDA (Includes 43 Series dies in sizes 1/4”, 3/8”, 1/2”, 3/4”, 1”, 1-1/4” and 77 Series dies in sizes 1/2”, 5/8”, 3/4”, 1”, 1-1/4”, 1-1/2” and 2” only)
- Die Kit 77K-KDA (Includes 77 Series dies in sizes 1/2”, 5/8”, 3/4”, 1”, 1-1/4”, 1-1/2” and 2” only)

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

SCAN FOR CRIMPSOURCE

Phastkrimp 2

view on web page

Capability

- Not applicable to all hoses. Verify hose and fitting capability on Crimpsource
- Up to 1-1/4” ID 1 and 2 wire hose
- Up to 1-1/4” ID 4 spiral hose
- Up to 1” ID compact spiral hose

Features

- Designed to make approx. 200 crimps per day
- For use with 25, 26, 43, 77, 81, and HY fittings

Specifications

- Dimensions: Length 32”, width 22”, height 38”
- Weight: 530 lbs. with oil
- Rating: 64 tons cylinder force @ 4,500 psi
- Crimp Cycle Time: 7-10 seconds, depending on Pusher position (1/2” 43 series straight fittings).
- Hydraulic oil: ISO Grade 46AW, 5 gallon reservoir capacity
- This unit is designed to make about 200 crimps per day and is not designed to be a production crimper. Exceeding these suggested production amounts will significantly reduce the life expectancy of the crimper components.
- This machine requires the use of the Molykote GN (TH18-100-59) Grease shipped with the 77 Series, -16 die (83C-CS16).

Part Number		Description	Individual Part Number
89CR-061	89CR-062		
●	●	Crimp Head Assembly	89CR-CHD
●		Phastkrimp 2 230 V, 3 phase, 60 HZ	89CR-HPS-3PH
	●	Phastkrimp 2 230 V, 1 phase, 60 HZ	89CR-HPS-1PH
●	●	Silver die ring	85C-R01
●	●	Black die ring	85C-R02

Optional Tooling:

- Die Kit KK2-KDA (Includes 43 Series dies in sizes 1/4”, 3/8”, 1/2”, 3/4”, 1” and 1-1/4” and 77 Series dies in sizes 1/2”, 5/8”, 3/4” and 1” only.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

SCAN FOR CRIMPSOURCE

TH8-380

view on web page

Shown with optional QDS239S front die rack

Capability

- Not applicable to all hoses. Verify hose and fitting capability on Crimpsource
- Up to 3" ID 2 wire braided hose
- Up to 3" ID 4/6 wire spiral hose
- Up to 4" (6")* industrial hoses

Features

- Electronic display preloaded with Parker part numbers and crimp specifications
- Greaseless die design

Specifications

- Dimensions: 47"L x 24-1/2" W x 67" H
- Weight without oil: 1653 lbs
  with oil: 1852 lbs
- Crimp Force: 340 Ton
- Electrical Power⁺: 230-480 V / 50/60 Hz / 3PH / 5 HP
- Crimp Range: 165 mm
- Opening: 70 mm
- Opening without dies: 215 mm
- Full Cycle Time (mm/s):
  Close: 23 (mm/s)
  Crimp Force: 1.3 (mm/s)
  Open: 33 (mm/s)

Hydraulic Oil: ISO Grade AW46: 26.5 gal.
Prefiltered oil required

Standard Equipment

Description	Part Number
Production Crimper**	TH8-380

Crimper Accessories	
Adapter die	237.239.2L2
Automatic Depth Stop	TAHM3xxCA
Front Die Rack	QDS239S
Mobile Die Rack (Wheels)	QDS239C
Bench Top Die Rack	QDS239R
Foot Switch	PS.2 Double
Mirror	SHS 375/380
Quick Change Tool	QDC239.5
Workplace Lamp	LUS

Available Die Sizes	
PB239***	14, 17, 20, 24, 26, 28, 31, 34, 38, 40, 44, 50, 54
PB237L	57, 62, 69, 74

**Without Flange*
***TH8-380 includes QDC239.5 quick change tool*
****PB239 dies require adapter die 237.239.2L2*
⁺Machine is factory wired to operate at high voltage. Can be field converted to operate at low voltage.

TH8-380

Hose Die Selection Chart

Fitting Series	Hose Size Range										
	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40
43 Series	17	17	20	24	26	31	40	50	57	69	78
70 Series			24	28	31						
71 Series			24	28	31	34	40	50	57	69	
77 Series				24	26	31	38	50	57	69	
79 Series						34	44	54	62		
HY Series	14	17	17	20	24	28	34	44			

Die Chart

Size (mm)	Part Number
14	PB239-50-14
17	PB239-65-17
20	PB239-65-20
24	PB239-65-24
26	PB239-65-26
28	PB239-80-28
31	PB239-80-31
34	PB239-80-34
38	PB239-80-38
40	PB239-80-40
44	PB239-80-44
50	PB239-100-50
54	PB239-100-54
57	PB237L-57
62	PB237L-62
69	PB237L-69
74	PB237L-74
78	PB237L-78

All PB239-xx dies require the use of adapter die (Part number 237.239.2L2)

26 Series Die Chart

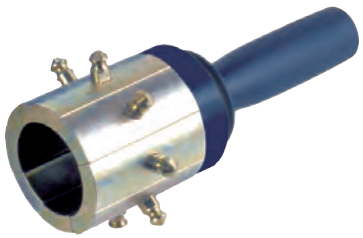
Size	Part Number
S26-04	PB239-S26-04
S26-05	PB239-S26-05
S26-06	PB239-S26-06
S26-08	PB239-S26-08
S26-10	PB239-S26-10
S26-12	PB239-S26-12
S26-16	PB239-S26-16
S26-20	PB239-S26-20
S26-24	PB239-S26-24
S26-32	PB237L-S26-32

All PB239-xx dies require the use of adapter die (Part number 237.239.2L2)

81 Series Die Chart

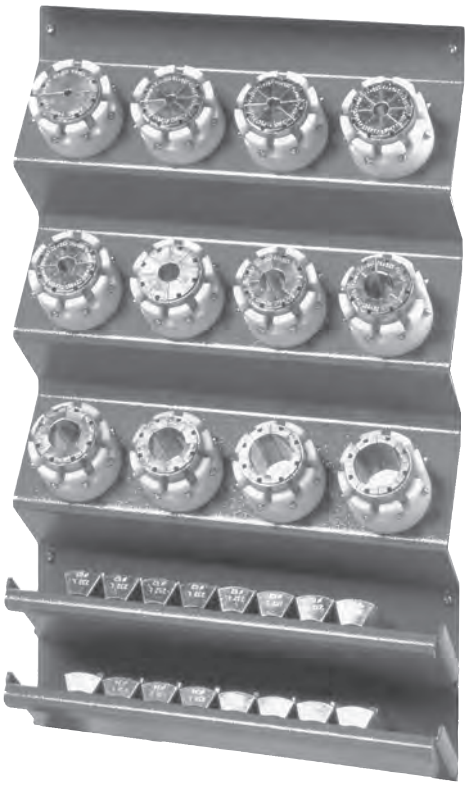
Size	Part Number
S81-12	PB239-S81-12
S81-16	PB239-S81-16
S81-20	PB239-S81-20
S81-24	PB239-S81-24
S81-32	PB237L-S81-32

All PB239-xx dies require the use of adapter die (Part number 237.239.2L2)



QDS239.5 (included with machine)

QDS239R (optional item)



QDS239S (optional item)

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Hand Pump*

Part No. 82C-0HP

view on web page

(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)
Ease of operation hand pump delivers 10,000 psi

Length:	23”
Width:	4”
Height:	5”
Port Size:	3/8” NPTF
Weight:	9 lbs
Hydraulic Fluid:	Enerpac oil

Hand Pump*

Part No. 85C-0HP

view on web page

(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)
Ease of operation hand pump delivers 10,000 psi

Length:	29”
Width:	13”
Height:	11”
Port Size:	3/8” NPTF
Weight:	61 lbs
Hydraulic Fluid:	Enerpac oil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Enerpac Warranty Statement
Enerpac products are warranted to be free of defects in materials and workmanship. Any product that does not conform to specification will be repaired or replaced at Enerpac’s expense, anywhere in the world; simple as that! This warranty does not cover ordinary wear and tear, abuse, misuse, alterations, or the use of improper fluids. Determination of the authenticity of a warranty claim will be made only by Enerpac or its Authorized Service Centers.

Electric Pump*

Part No. 82C-0EP

view on web page

(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)
Ease of operation electric pump delivers 10,000 psi

Length:	13”
Width:	13”
Height:	15”
Port Size:	3/8” NPTF
Weight:	31 lbs
Hydraulic Fluid:	Enerpac oil
Power Source:	115 volt, 1 phase, 50/60 Hz, 9 amp

Electric Pump*

Part No. 85C-0EP

view on web page

(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)
Heavy duty electric pump delivers 10,000 psi at a faster cycle time

Length:	19”
Width:	11”
Height:	17”
Port Size:	3/8” NPTF
Weight:	59 lbs
Hydraulic Fluid:	Enerpac oil
Power Source:	115 volt, 1 phase, 50/60 Hz, 20 amp

Air/Hydraulic Pump*

Part No. 82C-0AP

view on web page

(for use with the Minikrimp, Karrykrimp and Karrykrimp 2)
Lightweight pump operates with 80-110 psi shop air pressure and delivers 10,000 psi

Length:	15”
Width:	6”
Height:	6”
Intake Port Size:	1/4” NPTF
Output Port Size:	3/8” NPTF
Weight:	14 lbs
Hydraulic Fluid:	Enerpac oil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Enerpac Warranty Statement
Enerpac products are warranted to be free of defects in materials and workmanship. Any product that does not conform to specification will be repaired or replaced at Enerpac’s expense, anywhere in the world; simple as that! This warranty does not cover ordinary wear and tear, abuse, misuse, alterations, or the use of improper fluids. Determination of the authenticity of a warranty claim will be made only by Enerpac or its Authorized Service Centers.

www.parker.com/crimpsource

Crimpsource is the industry's most complete resource for crimper technical information. It contains all of the crimp specifications approved for Parker's rubber, industrial and thermoplastic hose:

- Crimp specs
- PDFs of technical manuals for easy downloading
- Parts lists
- Troubleshooting advice
- PDFs of crimper decals for immediate printing

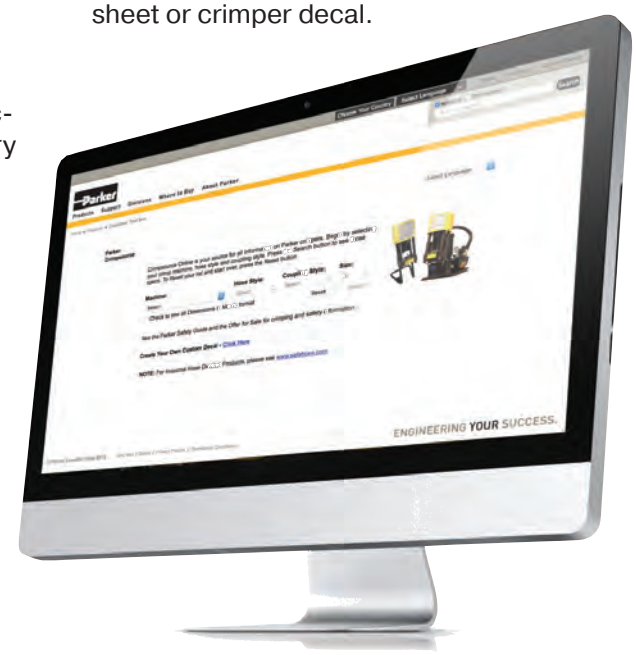
Crimpsource provides easy access to all the specifications necessary to correctly fabricate a factory quality hose assembly.

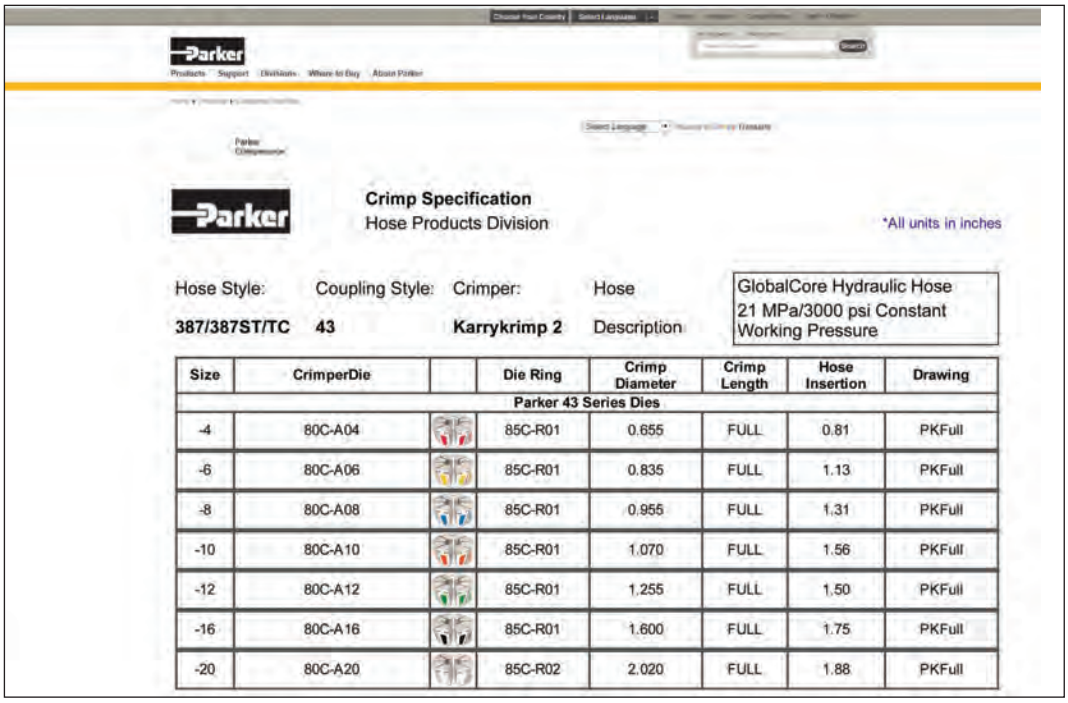
Crimpsource Home Page

A series of dropdown menus enables users to find what they need quickly and easily.

Choose your crimper, and then select the hose, fittings and current specifications needed to make hose assemblies.

You can also print a simple-to-follow data specification sheet or crimper decal.





Parker

Crimp Specification
Hose Products Division

*All units in inches

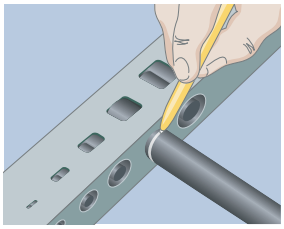
Hose Style:	Coupling Style:	Crimper:	Hose Description
387/387ST/TC	43	Karrykrimp 2	GlobalCore Hydraulic Hose 21 MPa/3000 psi Constant Working Pressure

Size	CrimperDie		Die Ring	Crimp Diameter	Crimp Length	Hose Insertion	Drawing
Parker 43 Series Dies							
-4	80C-A04		85C-R01	0.655	FULL	0.81	PKFull
-6	80C-A06		85C-R01	0.835	FULL	1.13	PKFull
-8	80C-A08		85C-R01	0.955	FULL	1.31	PKFull
-10	80C-A10		85C-R01	1.070	FULL	1.56	PKFull
-12	80C-A12		85C-R01	1.255	FULL	1.50	PKFull
-16	80C-A16		85C-R01	1.600	FULL	1.75	PKFull
-20	80C-A20		85C-R02	2.020	FULL	1.88	PKFull

Crimping using Minikrimp, Karrykrimp 2 and Karrykrimp 2 Bench Mount

Parkrimp Fittings Series 25, 26, 43, 70, 71, 77, 81, HY

1 Mark insertion depth and push on fitting

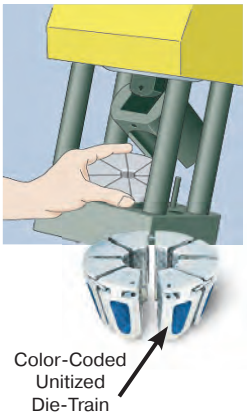


Mark the hose insertion depth and push hose into fitting until the mark on the hose is even with the end of the shell. Lubricate hose if necessary, however, **DO NOT lubricate if using spiral hose.** See Hose Insertion Depth table below.

Place shell onto end of hose and make sure the end of the shell lines up with the Insertion Depth mark.

Push hose onto the 88 Series fitting until the shell bottoms against the fitting's stop ring or hex. Lubricate hose if necessary.

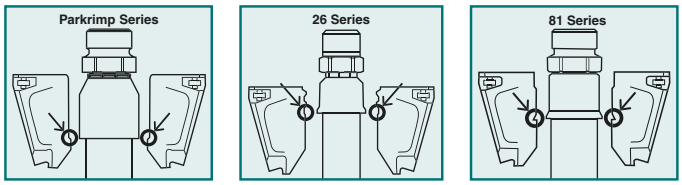
2 Insert unitized die train



Pull pin at the top of pusher to swing it back. Place unitized die-train into base plate. See decal on crimper for proper die set.

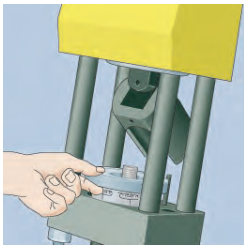
Important:
Lubricate the crimper's die bowl using a premium quality lithium-base grease.

3 Position the fitting

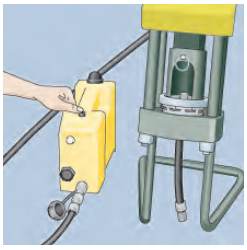


Position the hose and fitting in dies from below.
Rest bottom of coupling on die step using the PARKALIGN® feature.

4 Place die ring and crimp



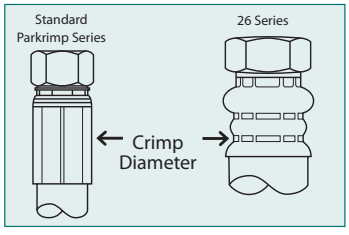
Place correct die ring on top of the dies. See decal on crimper for proper die ring.



Position pusher by replacing the pin and operate pump until the die ring bottoms out. Release pressure within the pump — remove finished assembly.

Note: Minikrimp, Karrykrimp & Karrykrimp 2 have several types of power sources, all of which are separate units from the crimping machine.

5 Measure crimp diameter



Measure crimp diameter on the flat surfaces of the crimped shell, referenced in the illustration to the left. Reference decal on crimper for crimp diameters. Never use hose assemblies with incorrect crimp diameters.

Important: Hose assemblies must be inspected for cleanliness and free of all foreign particles.

Hose insertion depths

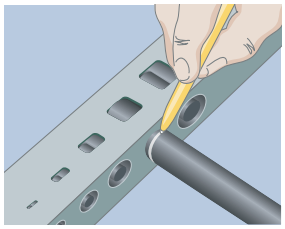
Fitting Size	Fitting Series 25		26		43		70		71		77		79		81		HY	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
-4	-	-	0.81	21	0.81	21	-	-	-	-	-	-	-	-	-	-	1.38	35
-5	-	-	0.81	21	0.94	24	-	-	-	-	-	-	-	-	-	-	1.41	36
-6	0.88	22	0.81	21	1.13	29	1.06	27	1.06	27	-	-	-	-	-	-	1.35	34
-8	0.88	22	0.81	21	1.31	33	1.31	33	1.25	32	1.36	34,6	-	-	-	-	1.44	37
-10	-	-	0.88	22	1.56	40	1.38	35	1.31	33	1.53	38,9	-	-	-	-	1.46	37
-12	-	-	0.88	22	1.50	38	1.50	38	1.44	37	1.78	45,2	2.18	56	1.12	29	1.55	39
-16	-	-	1.00	25	1.75	44	1.81	46	1.75	44	2.13	54,1	2.31	59	1.25	32	1.69	43
-20	-	-	1.00	25	1.88	48	1.75	44	1.81	46	2.51	63,8	2.81	71	1.31	33	-	-
-24	-	-	1.06	27	1.44	37	-	-	2.31	59	2.67	67,7	-	-	1.31	33	-	-
-32	-	-	1.25	32	1.81	46	-	-	2.44	62	3.05	77,5	-	-	1.69	43	-	-

For specific information on crimping, visit Crimpsource™ online at www.parker.com/crimpsource.

Crimping using Parkrimp 2

Parkrimp Fittings Series 25, 26, 43, 70, 71, 77, 81, HY

1 Mark insertion depth and push on fitting



Mark the hose insertion depth and push hose into fitting until the mark on the hose is even with the end of the shell. Lubricate hose if necessary, however, **DO NOT lubricate if using spiral hose.** See Hose Insertion Depth table on previous page.

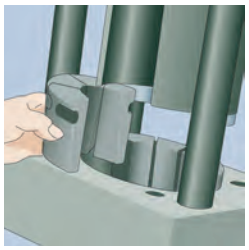
For 81 Series Shells with 88 Series Fittings

Place 81 Series Shell onto end of hose and make sure the end of the shell lines up with the Insertion Depth mark.

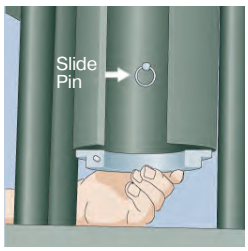
Push hose onto the 88 Series fitting until the shell bottoms against the fitting's stop ring or hex. Lubricate hose if necessary.

2a If using large two-piece dies

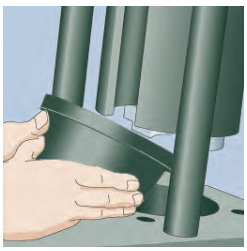
Insert the proper die set into the die bowl. (The die sets are in two halves of four dies each. Place one half in the back and one half in the front to accommodate bent tube fittings.) Reference decal on crimper for proper tool selection.



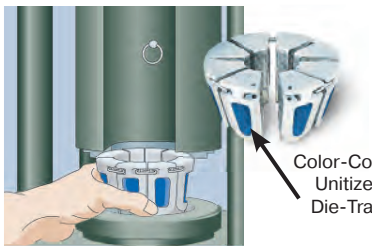
2b If using small unitized dies



With the pusher in the full up position, lift the back half of the split die ring. Lock it in the up position by pushing the slide pin in. (The slide pin is located inside the pusher at the back.)



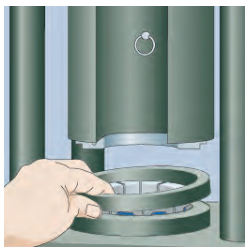
Lubricate die bowl using a premium quality lithium-base grease. Carefully insert the adapter bowl, 83C-OCB, into the base bowl. The adapter bowl must be tilted toward the back of the crimper during insertion.



Lubricate die bowl using a premium quality lithium-base grease. Place unitized die-train into the adapter bowl. Select die and die ring by hose size and type. See decal on crimper for proper die set.

Note: Die sets have color-coded cavities indicating size and have the fitting series and dash size stamped on the top.

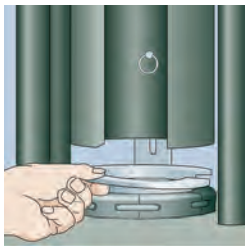
3 Place spacer ring



If required, place spacer ring on locating step of adapter bowl. Reference decal on crimper for tool selection.

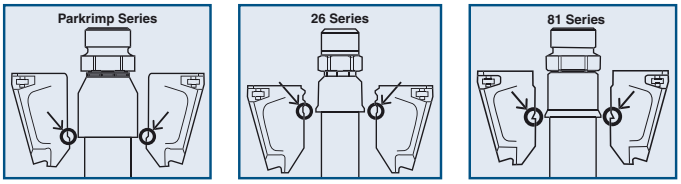
4 Position the split die ring

Lower the back half of the split die ring onto the dies by pulling the slide pin forward.



Insert the front half of the split die ring aligning the pins in the back half with the hole in the front half.

5 Position the fitting



Position the hose and fitting in dies from below.

Rest bottom of coupling on die step using the PARKALIGN® feature.

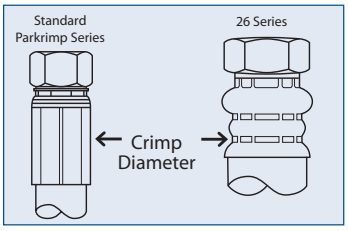
6 Crimp hose

Turn on the pump by pressing the "ON" switch. Pull the valve handle forward to bring the pusher down for crimping. When the split die ring contacts the base plate, the crimp is complete. Push the valve handle back to lift the pusher, open the dies, and release the finished assembly.

Note: You do not have to remove any tooling to insert or remove straight fittings. The front half of the split die ring and the front die train must be removed to insert and remove bent tube fittings.

7 Measure crimp diameter

Measure crimp diameter on the flat surfaces of the crimped shell, referenced in the illustration to the right. Reference decal on crimper for crimp diameters. Never use hose assemblies with incorrect crimp diameters.



Important: Hose assemblies must be inspected for cleanliness and free of all foreign particles.

Assembling Twin Tough Rubber Hose

Required Equipment:

Twin Tough hose, fittings, knife, tape measure, heat shrink sleeve, scissors, grease pencil, heat gun, and calipers.

Set-up:

Position the bonded rubber hose so that it lies flat on a work surface without tendency to twist or turn.

Measure hose tear back length:

Measure and mark the length that the hoses are to be separated. A minimum of 12 inches is required for crimping the hose ends. A 24 inch tear back is recommended for use with hydraulic tools.

Note: If length of separation/tear back is specified from the threaded or swivel nut end of the coupling, then deduct the cut off allowance dimension for the specific style of coupling used. The cutoff allowance can be obtained from the hose fitting tables in the 4400 Catalog “B” dimension, or can be calculated by subtracting the insertion depth of the shell from the overall coupling length.

Cut hose tear back to length:

Press the bonded hose assembly firmly and flat against the work surface with your free hand so that it does not move.

A.) Using a sharp blade, pierce the center of the valley (web) formed by the hoses.

B.) To start the cut, place the blade in the center of that valley (web) drawing the knife with constant pressure.

C.) Once you have a 1 to 2 inch starter cut, firmly pull each hose end apart to your required separation length.

Note: It is important that the knife blade be perpendicular to the hose during this procedure so the blade cuts only the centerline of the valley (web). EXTREME CARE MUST BE TAKEN TO AVOID CUTTING THROUGH THE COVER OF THE HOSES AND THEREBY EXPOSING THE HOSE REINFORCEMENT. If this occurs, the hose assembly must be discarded.

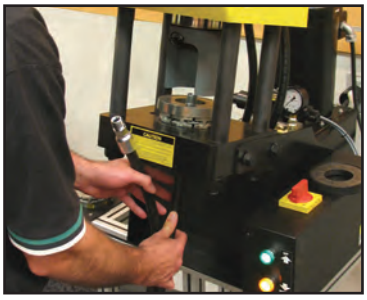
Measure Separation: It is suggested that the separation length be at least 12 inches, so the crimping operation can be accomplished without risk of kinking the hoses.

Stopping Separation: Parker recommends installing a heat shrink sleeve of at least 2 inches in length at the termination of the separated hose to provide protection against tearing of the valley (web) or hose covers. This heat shrink sleeve should be placed on the hose assembly prior to the crimping of the hose fittings. Once you have your heat shrink sleeve in place, use a heat gun to shrink the sleeve in place.

Note: EXTREME CARE MUST BE TAKEN TO AVOID EXPOSING THE HOSE ASSEMBLY TO THE DIRECT HIGHTEMPERATURES OF THE HEAT GUN WHILE INSTALLING THE HEAT SHRINK SLEEVE. LONG EXPOSURE FROM A HEAT GUN MAY ADVERSELY AFFECT THE HOSE INNER TUBE OR ITS COVER.

Crimping Fittings: All of your crimping information can be found on Crimpsource (www.parker.com/crimpsource).

First, place your fittings onto each hose end making sure that both have been installed to the correct hose insertion depth. Choose the correct die and die rings. Place half of your hose assembly through the bottom of your Parkrimp crimper. Rest the bottom of the fitting on the die step using the Parkalign system. While lightly holding the hose assembly, operate your crimper pump so that the pusher on the crimper comes down in contact with the die ring until it bottoms out on the crimper base. Then release the pressure within the pump and remove the first half of your finished assembly. Always measure your hose assemblies for the correct crimp diameter. Now, repeat the crimping process on the other fitting.



Note: EXTREME CARE MUST BE TAKEN TO AVOID KINKING THE HOSE THAT IS NOT BEING CRIMPED DURING THIS PROCESS.

Hose Cut-Off Machine

Part No. 86C-220V

Features

- Engineered for workshop, retail, or production use
- Cuts hoses with less friction, less heat, and less debris
- Vacuum port eliminates any very small amount of smoke or debris created
- Comes standard with a Parker branded advanced scallop blade
- Cuts wire reinforced hoses including 6 heavy wire constructions up to 2" ID

Specifications

- Dimensions: 27" wide X 16.5" long X 24" high (when handle is at the highest point)
- Shipping Weight: 108 lbs

Standard Equipment

view on web page

Part Number 86C-220V	Description	Individual Part Number
●	Hose cut off machine with 220V single phase motor	
●	Parker branded advanced scallop blade- 10" OD x .125 THK X 40 mm arbor	HYD10X125X40-PH

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Hose Cut-Off Machine

Part No. 86C-220V3

Features

- Engineered for workshop, retail, or production use
- Cuts hoses with less friction, less heat, and less debris
- Vacuum port eliminates any very small amount of smoke or debris created
- Comes standard with a Parker branded advanced scallop blade
- Cuts wire reinforced hoses including 6 heavy wire constructions up to 2" ID

Specifications

- Dimensions: 27" wide X 16.5" long X 24" high (when handle is at the highest point)
- Shipping Weight: 108 lbs

Standard Equipment

view on web page

Part Number 86C-220V3	Description	Individual Part Number
●	Hose cut off machine with 220V three phase motor	
●	Parker branded advanced scallop blade- 10" OD x .125 THK X 40 mm arbor	HYD10X125X40-PH

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Hose Cut-Off Machine

Part No. 86C-110V

Features

- Engineered for workshop, retail, or production use
- Cuts hoses with less friction, less heat, and less debris
- Vacuum port eliminates any very small amount of smoke or debris created
- Comes standard with a Parker branded advanced scallop blade
- Cuts wire 4-wire spiral hoses up to 1 1/4" ID
- For frequent use cutting larger ID, 4-wire hoses, a larger saw may be more suitable

Specifications

- Electrical: Single Phase, 1.5 HP, 110 VAC, 60 Cycle, 3,450 RPM
- Dimensions: 22" wide X 14" long X 15" high
- Shipping Weight: 75 lbs

Standard Equipment

view on web page

Part Number 86C-110V	Description	Individual Part Number
●	Hose cut off machine with 110V single phase motor	
●	Parker branded advanced scallop blade- 7" OD x .093 THK X 3/4" arbor	HYD07X093X3/4-PH

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Hose Cut-Off Machine

Part No. TH3-EM3-110V

Features

- Engineered for workshop or production use
- Comes with a vacuum port to remove smoke and debris while cutting
- Comes standard with a diamond-coated cutting blade
- Cuts wire reinforced hoses including 6 heavy spiral constructions up to 1 1/4" I.D.

Specifications

- Dimensions: 17" wide, 21" long and 12" high
- Shipping Weight: 95 lbs.

Standard Equipment

view on web page

Part Number TH3-EM3-110V	Description	Individual Part Number
●	Hose cut-off machine with 110V single phase motor	
●	Industrial diamond coated cutting blade	TM-C
	Cutting blade with inclined slots	TM-G
	Flat cutting blade	TM-F

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Premium Hose Cleaning Kit

view on web page

Part No. TH6-10-HL-10-2 (10 Nozzle Kit)

Features

- Capable of cleaning 1/4” through 2” hose, tube or pipe
- The launcher is supplied with a Full-Flow Quick Release Coupling and unique 360˚ Rotary Plug for proper air flow and non-fatigue operator use
- Unique Safety Release Bar that locks the faceplate into a closed position for firing Ultra Clean projectiles

Nozzles Included in Kits

End Type	Size	Nozzle Part Number*	Projectile Part Number†	Projectile Quantity†
Hose	1/4”	TH6-10-H06	TH6-10-P10	100
Hose	5/16”	TH6-10-H08	TH6-10-P12	100
Hose	3/8”	TH6-10-H10	TH6-10-P14	100
Hose	1/2”	TH6-10-H13	TH6-10-P18	100
Hose	5/8”	TH6-10-H16	TH6-10-P22	50
Hose	3/4”	TH6-10-H19	TH6-10-P26	50
Hose	1”	TH6-10-H25	TH6-10-P33	40
Hose	1-1/4”	TH6-10-H32	TH6-10-P40	30
Hose	1-1/2”	TH6-10-H38	TH6-10-P50	20
Hose	2”	TH6-10-H50	TH6-10-P60	15

*Nozzles are not available individually

†Projectiles sold separately

Additional Available Nozzles

End Type	Size	Nozzle Part Number	Projectile Part Number†	Projectile Quantity†
JIC	1/4”	TH6-10-J06	TH6-10-P06	100
JIC	3/8”	TH6-10-J10	TH6-10-P12	100
JIC	1/2”	TH6-10-J13	TH6-10-P16	100
JIC	5/8”	TH6-10-J16	TH6-10-P22	50
JIC	3/4”	TH6-10-J19	TH6-10-P26	50
JIC	1”	TH6-10-J25	TH6-10-P33	40
JIC	1-1/4”	TH6-10-J32	TH6-10-P40	30
JIC	1-1/2”	TH6-10-J38	TH6-10-P50	20
JIC	2”	-	TH6-10-P60	15

†Projectiles sold separately

Economy Hose Cleaning Kit

view on web page

Part No. TH6-10-EL-8 (8 Nozzle Kit)

Features

- Capable of cleaning 1/4” through 1-1/4” hose, tube or pipe
- Has a quarter-turn locking ring for easy nozzle change and projectile loading
- The launcher is constructed of durable brass and aluminum internals, strong plastic handle, and anodized aluminum firing head and locking ring.
- Ideal for mobile and job site applications because of its size and portability

Air Requirements

- 80 PSI (5.5 Bar) minimum to 110 PSI (7.5 Bar) maximum
- 1/2” I.D. air hose
- 5 micron filter and regulator with gauge are strongly suggested
- Requires a 1/2” I.D. air hose with 80 PSI (minimum) / 110 PSI (maximum), and it is strongly recommended that you use a 5 micron filter and regulator with a gauge.

Parker Clean Seal

Parker's Clean Seal cap is a simple, easy and clean alternative to cap your hose and fitting assemblies. The Clean Seal cap enables a secure fit due to an easy to use heat shrink system. Reduce your cap complexity as one Clean Seal cap will seal multiple end configurations and sizes, eliminating many unique traditional caps.

The Clean Seal process utilizes heat shrink technology to cover the end of a hose assembly. The heat shrink technology eliminates problems due to re-contamination issues. When traditional caps and plugs are forced onto assemblies, plastic debris and particles shred off into your hose, ultimately causing re-contamination.

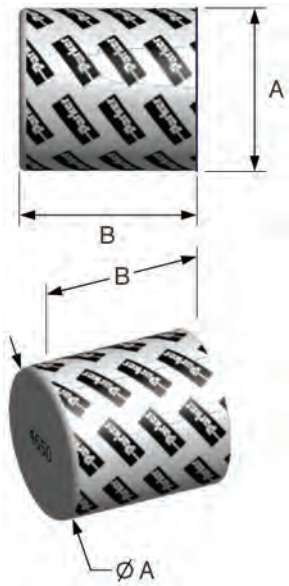
Product Features:

- For use on fittings up to -24 (1-1/2")
- Fits straight and elbow fittings
- Easy pull tab removal
- Reduced environmental impact compared to traditional caps
  - Less plastic used
  - More crushable
- Multiple hoses can be capped at one time

view on web page

Cap Part Numbers

Packaged		Bulk		Sizing	
Parker P/N (Package)	Package Quantity	Parker P/N (Bulk)	Bulk Quantity	Hex Sizes Covered (in mm)	Hex Sizes Covered (in inches)
PCS-2023P	810	PCS-2023B	23,400	12mm to 18mm	.47" to .71"
PCS-2030P	810	PCS-2030B	23,400	12mm to 18mm	.47" to .71"
PCS-2224P	810	PCS-2224B	23,500	16mm to 21mm	.63" to .83"
PCS-2527P	800	PCS-2527B	17,600	18mm to 23mm	.71" to .91"
PCS-2540P	800	PCS-2540B	17,600	18mm to 23mm	.71" to .91"
PCS-2840P	720	PCS-2840B	15,200	22mm to 26mm	.87" to 1.02"
PCS-3133P	640	PCS-3133B	12,240	24mm to 29mm	.94" to 1.14"
PCS-3140P	640	PCS-3140B	12,240	24mm to 29mm	.94" to 1.14"
PCS-3440P	640	PCS-3440B	10,240	27mm to 32mm	1.07" to 1.26"
PCS-3840P	560	PCS-3840B	7,800	30mm to 36mm	1.09" to 1.42"
PCS-4345P	480	PCS-4345B	6,240	32mm to 41mm	1.26" to 1.61"
PCS-4650P	480	PCS-4650B	5,760	34mm to 44mm	1.34" to 1.73"
PCS-5260P	400	PCS-5260B	4,400	41mm to 50mm	1.62" to 1.97"
PCS-5860P	400	PCS-5860B	3,600	49mm to 56mm	1.93" to 2.20"
PCS-6760P	320	PCS-6760B	2,560	55mm to 65mm	2.16" to 2.56"



PCS-4650B

"A" "B" B=Bulk P=Package

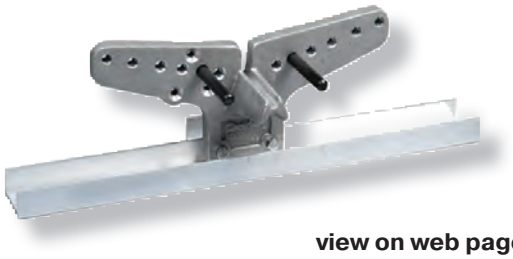
"A" and "B" dimensions in mm. Shorter length capsules recommended for elbow/bent fittings.

Equipment Part Numbers

UC-CSS-230V	UC-HL1910E	UC-HG-STAND	UC-1.5HD
Production Heat Shrink machine with timer	Electric heat gun with case	Flex vacuum pumpstand for heat gun	95mm diffuser for 1-1/2" heat gun connection

Hose Cut-Off Tool - Handykut

Part No. 871522



view on web page

Features

- Portable tool for efficient cutting of hose
- Can be positioned onto a flat surface by clamps or by locking it in a vise, properly align the hose in a radius and cut it with a hacksaw

Specifications

- Dimensions: 6” wide x 18” long x 6” high
- Shipping Weight: 10 lbs.

Push-Lok Cut-Off & Assembly Tool

Part No. 881540

view on web page

Features

- Combined hose cutter and toggle action press that cuts and assembles Parker Push-Lok in sizes 1/4” through 3/4” I.D.

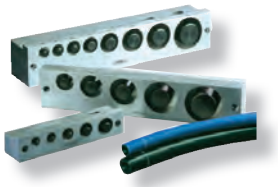
Specifications

- Dimensions: 16” long
- Shipping Weight: 4 lbs.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Hose Insertion Depth Blocks

Part No. TH9-1-XXX



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Features

- For quick easy marking of hose insertion depth
- Ensures accuracy and increased productivity

Available Blocks

Part Number	Description
TH9-1-26A	26 Series -4 through -10
TH9-1-26B	26 Series -12 through -32
TH9-1-43A	43 Series -4 through -10
TH9-1-43B	43 Series -12 through -32
TH9-1-77	77 Series -8 through -32
TH9-1-HY	HY Series -4 through -16

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Hose Cut-Off Tool

Part No. TH11-1

view on web page

Features

- Designed for quick, easy cutting of textile reinforced hose.
- Squarely cuts Push-Lok hose in sizes 1/4” through 3/4” I.D.

Specifications

- Dimensions: 8” long
- Shipping Weight: 0.3 lbs.

Die Storage Racks

Part No. 80C-0DR and 83C-0DR

view on web page

Features

- Modular die rack designed to hold small and large Parkrimp dies
- Can be bolted together to a work bench horizontally or vertically

Standard Equipment

Part Number		Description
80C-0DR	83C-0DR	
●		Storage of three sets of small dies
	●	Storage of two sets of large dies

Swivel Die Rack

Part No. 80C-SDR-XXXX

view on web page

Features

- Holds up to 30 Parkrimp dies of any size
- Powder-coated, heavy-duty steel construction
- Consists of a base unit and up to five circular holders
- Floor or bench mounted

Standard Equipment

Part Number	Description
80C-SDR-SM	Swivel Die Rack and Small Die Holder
80C-SDR-LG	Swivel Die Rack and Large Die Holder
80C-SDR-BASE	Swivel Die Rack Base

Fitting Push-On Stand

Part No. TH2-7

view on web page

Features

- Quickly and easily pushes fittings onto hose
- Boosts productivity and quality
- Eliminates the need of rubber mallets and oils to get fittings onto the end of the hose for crimping
- Standard with straight tooling required for sizes 1/4” through 2” for all crimped fittings, 82 Series Push-Lok and 88 Series field attachable fittings

Specifications

- Requires a minimum of 80 psi
- Shipping Weight: 200 lbs.

Optional Tooling

- Elbow Pusher Set (TH2-7-ELS)
- -32 Monoblock Elbow Pusher Set (TH2-7-ELSH)

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Mandrels - 25 Series

(For 271 Transportation Hose)

Part No. TH2-7M25-6 and TH2-7M25-8

view on web page

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Accrolube

Part No. Accrolube

Features

- High efficiency lubricant used for stainless steel field attachable fittings
- Contains PTFE to reduce the wear between metal surfaces, protects against corrosion and ultimately eliminates galling

Small Crimper Hood

Part No. 82C-CVR

Features

- Water repellant
- UV protected
- Perfect for indoor and outdoor applications

Fits

- Karrykrimp, Parkrimp Karrykrimp2, Minikrimp

view on web page

Large Crimper Hood

Part No. 83C-CVR

Features

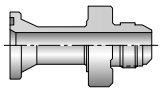
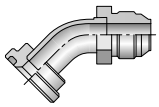
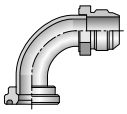
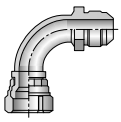
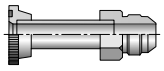
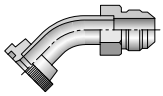
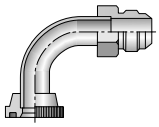
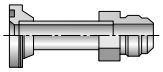
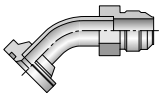
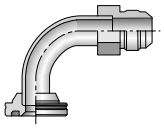
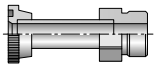
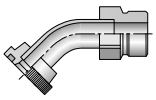
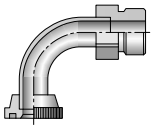
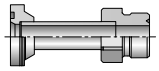
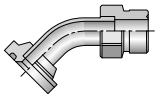
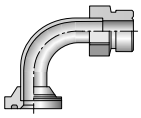
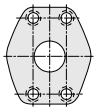
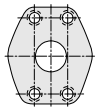
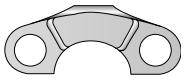
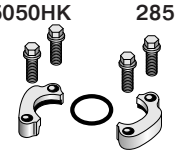
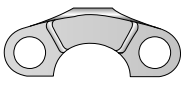
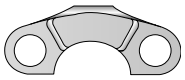
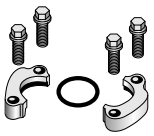
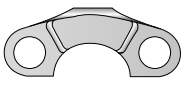
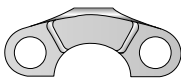
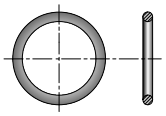
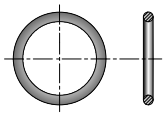
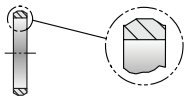
- Water repellant
- UV protected
- Perfect for indoor and outdoor applications

Fits

- PHastkrimp, Superkrimp Parkrimp2

view on web page

Accessories

Hose Adapters	Hose Adapters 278 	**Hydraulic Flange Adapters**	15T3 279  *Code 61 - JIC 37°*	17T3 279  *Code 61 - JIC 37° 45° Elbow*	19T3 279  *Code 61 - JIC 37° 90° Elbow*
39T3 280  *Male - Female JIC 37° - 90° Elbow*	41T3 280 *Male - Female JIC 37° 90° Elbow - Long*	4AH3 280  *Code 61 - JIC 37° 5000 psi*	4FH3 281  *Code 61 - JIC 37° 5000 psi - 45° Elbow*	4NH3 281  *Code 61 - JIC 37° 5000 psi - 90° Elbow*	6AH3 281  *Code 62 - JIC 37°*
6FH3 281  *Code 62 - JIC 37° 45° Elbow*	6NH3 282  *Code 62 - JIC 37° 90° Elbow*	4AJM 282  *Code 61 - Seal-Lok®*	4FJM 282  *Code 61 - Seal-Lok® 45° Elbow*	4NJM 282  *Code 61 - Seal-Lok® 90° Elbow*	6AJM 283  *Code 62 - Seal-Lok®*
6FJM 283  *Code 62 - Seal-Lok® 45° Elbow*	6NJM 283  *Code 62 - Seal-Lok® 90° Elbow*	Standard Pressure (Code 61) Specifications 284 	High Pressure (Code 62) Specifications 284 	50H 284  *Flange Half 5000 psi (Code 61)*	5050HK 285  *Flange Kit Code 61 - 5000 psi*
51H 285  *Flange Half - Code 61*	5151HK 285 *Flange Kit - Code 61*	HFH 286  *Flange Half - Code 62*	HFHFHK 286  *Flange Kit - Code 62*	M1H 287  *Flange Half ISO - Code 61*	M1M1HK 287 *Flange Kit ISO - Code 61*
M2H 288  *Flange Half ISO - Code 62*	M2M2HK 288 *Flange Kit ISO - Code 62*	XCXCHK 288 *Flange Kit - CAT*	**O-Rings**	EFS 289 *Engineered Flange Seal*	711509 290  *O-Rings SAE Thread*
711510 290  *O-Rings Code 61/Code 62*	D9DT 290 *Bonded Seal for BSPP Port Fittings*	J0RG 291 *O Rings - Seal-Lok®*	XARG 291  *Flange "D" Rings CAT*	59RG 292 *O-Rings - Tube O-Ring & Compressor Fittings*	T1RG 292 *O-Rings Compression Fittings (IT126)*
CORG 292 *O-Ring Assembly Tools*	**Hose Guards**	Partek Defense 293 	Partek Wrap 294 	Partek Sleeve 295 	PolyGuard (HG) 295

Accessories

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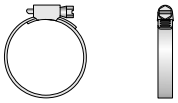
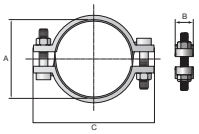
Protection Shields 298	Hose Whip Restraint 306	CL Clamp 310	HC Clamp 311 	88HC-H Wormgear 311	88DB Clamp 311 
Hose Assembly Workstations	Hose Assembly Workstations 312	HoseFab Table 313	Rotary Reel Rack 313	Saw Table 313	3/4 Reel Rack 313
Parker Kart 314	72B-Cabinet 314	HR3 Hose Bin 314			

SAE/NPT/Metric Hose Adapters

O-Ring Face-Seal Seal-Lok™

Sizes: 6 mm – 38 mm
Materials: Steel, Stainless Steel
Pressures: Up to 9200 psi

O-Ring Face-Seal Metric Seal-Lok™

Sizes: 1/4" – 2"
Materials: Steel, Stainless Steel
Pressures: Up to 9200 psi

37° Flare Fittings Triple-Lok®

Sizes: 1/8" – 2"
Materials: Steel, Stainless Steel, Brass
Pressures: Up to 9000 psi

37° Flare Metric Triple-Lok®

Sizes: 6 mm – 38 mm
Materials: Steel, Stainless Steel
Pressures: Up to 7200 psi

Pipe Fittings and Port Adapters

Sizes: 1/8" – 2"
Materials: Steel, Stainless Steel, Brass
Pressures: Up to 7200 psi

Conversion Adapters

Sizes: 1/4" – 1-1/2"
Materials: Steel, Stainless Steel
Pressures: Up to 7700 psi

Pipe Swivels

Sizes: 1/8" – 2"
Materials: Steel, Stainless Steel
Pressures: Up to 5000 psi

Hydraulic Flange and Flange Adapters

Sizes: 3/4" – 3"
Materials: Steel, Stainless Steel
Pressures: Up to 6000 psi

Japanese Industrial Standard JIS

Sizes: 1/4" – 1"
Materials: Steel
Pressures: Up to 5000 psi

30° Flare Komatsu Style

Sizes: M14 x 1.5 – M33 x 1.5
Materials: Steel
Pressures: Up to 4000 psi

60° Cone BSPP K4

Sizes: 1/8" – 2"
Materials: Steel
Pressures: Up to 5000 psi

How to Order Parker Hose Adapters

When ordering Parker Adapters, please state the Catalogued Number of each type of adapter desired. Be sure to double check tube and hose sizes of items required.

To select proper seal materials for specific applications, refer to Media Compatibility Chart in Tube Fitting Catalog 4300, or contact your Parker Tube Fitting Distributor.

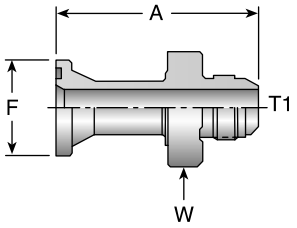
If in doubt about which type or size of fitting to specify, consult your Parker Tube Fitting Distributor. In addition Parker Field Sales, Technical Services, the Tube Fitting Division and your local Parker Service Center will help you find answers to all your issues.

Phone: (614) 279-7070
Fax: (614) 279-7685
Web: http://www.parker.com/tfd

15T3

SAE (Code 61) Flange – Male SAE (JIC) 37˚ Flare

Part Number	Flange inch	Thread T1		Maximum Working Pressure psi	A inch	A mm	W inch	F inch
15T3-8-8	1/2	1/2	3/4x16	4000	2.80	71	1-1/4	1-3/16
15T3-12-12	3/4	3/4	1-1/16x12	3100	3.20	81	1-9/16	1-1/2
15T3-16-12	1	3/4	1-1/16x12	3100	2.68	47	1-1/8	1-3/4
15T3-16-16	1	1	1-5/16x12	2400	3.22	82	1-7/8	1-3/4
15T3-20-16	1-1/4	1	1-5/16x12	2400	2.76	51	1-3/8	2
15T3-20-20	1-1/4	1-1/4	1-5/8x12	1800	3.69	94	2-1/4	2
15T3-24-24	1-1/2	1-1/2	1-7/8x12	1300	4.04	103	2-1/2	2-3/8
15T3-32-32	2	2	2-1/2x12	1150	4.44	113	2-7/8	2-13/16



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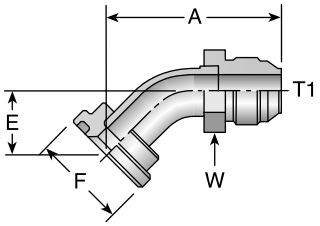
17T3

SAE (Code 61) Flange – Male SAE (JIC) 37˚ Flare - 45˚ Elbow

Part Number	Flange inch	Thread T1		Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch	F inch
17T3-8-8	1/2	1/2	3/4x16	4000	2.54	65	0.78	20	13/16	1-3/16
17T3-12-12	3/4	3/4	1-1/16x12	3100	2.76	70	1.00	25	1-9/16	1-1/2
17T3-16-12	1	3/4	1-1/16x12	3100	2.72	70	1.00	25	1-1/8	1-3/4
17T3-16-16	1	1	1-5/16x12	2400	2.99	76	1.06	27	1-3/8	1-3/4
17T3-20-16	1-1/4	1	1-5/16x12	2400	2.99	76	1.06	27	1-7/8	2
17T3-20-20	1-1/4	1-1/4	1-5/8x12	1800	3.22	82	1.12	28	1-11/16	2
17T3-24-20	1-1/2	1-1/4	1-5/8x12	1800	3.26	83	1.17	30	1-11/16	2-3/8
17T3-24-24	1-1/2	1-1/2	1-7/8x12	1300	3.43	87	1.12	28	2	2-3/8
17T3-32-32	2	2	2-1/2x12	1150	4.02	102	1.25	32	2-5/8	2-13/16



view on web page

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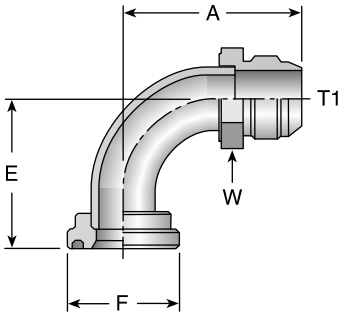
19T3

SAE (Code 61) Flange – Male SAE (JIC) 37˚ Flare - 90˚ Elbow

Part Number	Flange inch	Thread T1		Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch	F inch
19T3-8-8	1/2	1/2	3/4x16	4000	1.92	49	1.62	41	13/16	1-13/16
19T3-12-12	3/4	3/4	1-1/16x12	3100	2.46	62	2.12	54	1-1/8	1-1/2
19T3-16-12	1	3/4	1-1/16x12	3100	2.46	62	2.12	54	1-3/8	1-3/4
19T3-20-12	1-1/4	3/4	1-1/16x12	3100	2.46	62	2.12	54	1-3/8	2
19T3-16-16	1	1	1-5/16x12	2400	2.79	71	2.37	60	1-3/8	1-3/4
19T3-20-16	1-1/4	1	1-5/16x12	2400	2.79	71	2.37	60	1-3/8	2
19T3-24-16	1-1/2	1	1-5/16x12	2400	2.79	71	2.44	62	1-11/16	2-3/8
19T3-20-20	1-1/4	1-1/4	1-5/8x12	1800	3.12	79	2.50	64	1-11/16	2
19T3-24-20	1-1/2	1-1/4	1-5/8x12	1800	3.12	79	2.56	65	1-11/16	2-3/8
19T3-20-24	1-1/4	1-1/2	1-7/8x12	1300	3.48	88	2.69	68	2	2
19T3-24-24	1-1/2	1-1/2	1-7/8x12	1300	3.48	88	2.75	70	2	2-3/8
19T3-32-24	2	1-1/2	1-7/8x12	1300	3.48	88	2.75	70	2	2-13/16
19T3-32-32	2	2	2-1/2x12	1150	5.61	142	4.50	114	2-5/8	2-13/16



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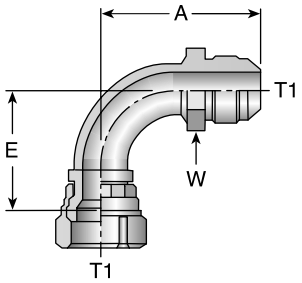
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

39T3

Male - Female Swivel - SAE (JIC) 37˚ - 90˚ Elbow



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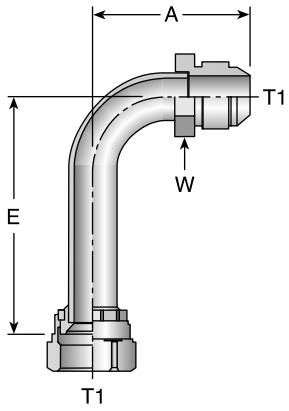
Part Number	Thread T1		Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch
39T3-6-6	3/8	9/16x18	4500	1.61	41	0.85	22	5/8
39T3-8-8	1/2	3/4x16	4000	1.86	47	1.09	28	13/16
39T3-10-10	5/8	7/8x14	3600	2.13	54	1.24	31	15/16
39T3-12-12	3/4	1-1/16x12	3100	2.62	67	1.81	46	1-1/8
39T3-16-16	1	1-5/16x12	2400	2.94	75	2.14	54	1-3/8
39T3-20-20	1-1/4	1-5/8x12	1800	3.12	79	2.59	66	1-11/16

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

41T3

Male - Female Swivel - SAE (JIC) 37˚ - 90˚ Elbow - Long



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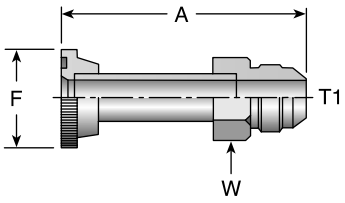
Part Number	Thread T1		Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch
41T3-8-8	1/2	3/4x16	4000	1.94	49	2.43	62	13/16
41T3-10-10	5/8	7/8x14	3600	2.20	56	2.57	65	15/16
41T3-12-12	3/4	1-1/16x12	3100	2.50	64	3.74	95	1-1/8
41T3-16-16	1	1-5/16x12	2400	2.79	71	4.23	107	1-3/8

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

4AH3

SAE Code 61 Flange - Male SAE (JIC) 37˚ Flare



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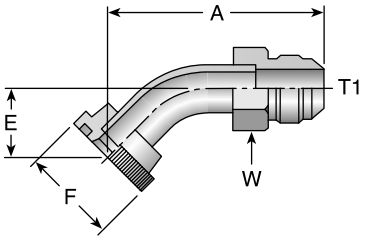
Part Number	Flange inch	Thread T1		Maximum Working Pressure psi	A inch	A mm	W inch	F inch
4AH3-12-12	3/4	3/4	1-1/16x12	5000	3.82	97	1-1/8	1-1/2
4AH3-16-16	1	1	1-5/16x12	4500	4.09	104	1-3/8	1-3/4
4AH3-20-20	1-1/4	1-1/4	1-5/8x12	4400	4.16	106	1-3/4	2
4AH3-24-24	1-1/2	1-1/2	1-7/8x12	4250	4.97	126	2	2-3/8

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

4FH3

SAE Code 61 Flange - Male SAE (JIC) 37˚ Flare - 45˚ Elbow

Part Number	Flange inch	Thread T1		Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch	F inch
4FH3-12-12	3/4	3/4	1-16x12	5000	3.39	86	1.06	27	1-1/8	1-1/2
4FH3-16-16	1	1	1-5/16x12	4500	3.85	98	1.27	32	1-3/8	1-3/4
4FH3-20-20	1-1/4	1-1/4	1-5/8x12	4400	4.22	107	1.36	35	1-3/4	2



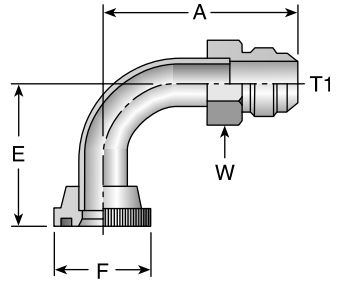
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

view on web page

4NH3

SAE Code 61 Flange - Male SAE (JIC) 37˚ Flare - 90˚ Elbow

Part Number	Flange inch	Thread T1		Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch	F inch
4NH3-8-8	1/2	1/2	3/4x16	5000	1.93	49	1.68	43	13/16	1-13/16
4NH3-12-12	3/4	3/4	1-1/16x12	5000	3.07	78	2.24	57	1-1/8	1-1/2
4NH3-16-16	1	1	1-5/16x12	4500	3.25	83	2.48	63	1-3/8	1-3/4
4NH3-20-20	1-1/4	1-1/4	1-5/8x12	4400	4.68	119	2.99	76	1-3/4	2
4NH3-24-24	1-1/2	1-1/2	1-7/8x12	4250	3.92	100	3.64	92	2	2-3/8



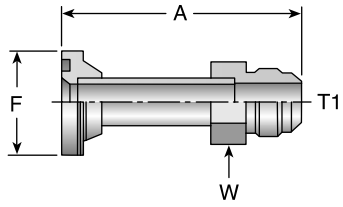
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

view on web page

6AH3

SAE Code 62 Flange - Male SAE (JIC) 37˚ Flare

Part Number	Flange inch	Thread T1		Maximum Working Pressure psi	A inch	A mm	W inch	F inch
6AH3-12-12	3/4	3/4	1-1/16x12	5000	3.82	97	1-1/8	1-5/8
6AH3-16-16	1	1	1-5/16x12	4500	4.09	104	1-3/8	1-7/8
6AH3-20-20	1-1/4	1-1/4	1-5/8x12	4400	4.16	106	1-3/4	2-1/8
6AH3-24-24	1-1/2	1-1/2	1-7/8x12	4250	4.97	126	2	2-1/2



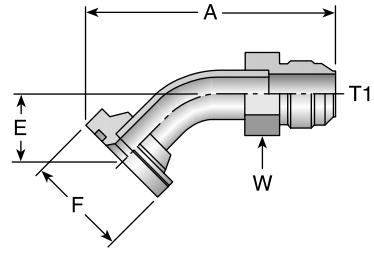
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

view on web page

6FH3

SAE Code 62 Flange - Male SAE (JIC) 37˚ Flare - 45˚ Elbow

Part Number	Flange inch	Thread T1		Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch	F inch
6FH3-12-12	3/4	3/4	1-1/16x12	5000	3.40	86	1.06	27	1-1/8	1-5/8
6FH3-16-16	1	1	1-5/16x12	4500	3.85	98	1.28	33	1-3/8	1-7/8
6FH3-20-20	1-1/4	1-1/4	1-5/8x12	4400	4.22	107	1.36	35	1-3/4	2-1/8
6FH3-24-24	1-1/2	1-1/2	1-7/8x12	4250	5.13	130	1.71	43	2	2-1/2

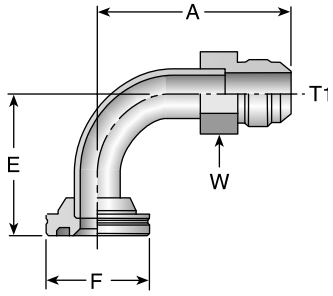


WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

view on web page

6NH3

SAE Code 62 Flange - Male SAE (JIC) 37˚ Flare - 90˚ Elbow



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Part Number	Flange inch	Thread T1		Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch	F inch
6NH3-12-12	3/4	3/4	1-1/16x12	5000	3.07	78	2.24	57	1-1/8	1-5/8
6NH3-16-16	1	1	1-5/16x12	5000	3.58	91	2.81	71	1-3/8	1-7/8
6NH3-20-20	1-1/4	1-1/4	1-5/8x12	4400	4.68	119	2.99	76	1-3/4	2-1/8
6NH3-24-24	1-1/2	1-1/2	1-7/8x12	4250	3.92	100	3.64	92	2	2-1/2

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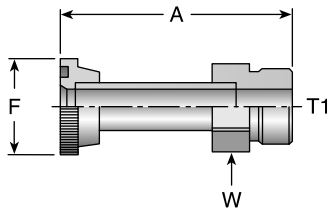
4AJM

Code 61 Flange - Male Seal-Lok



view on web page

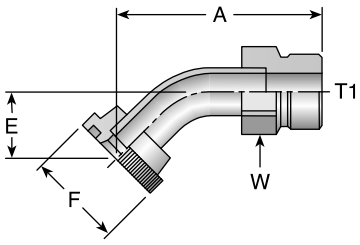
Part Number	Flange inch	Thread T1	Maximum Working Pressure psi	A inch	A mm	W inch	F inch
4AJM-12-12	3/4	1-3/16x12	5000	3.65	93	1-1/4	1-1/2
4AJM-16-16	1	1-7/16x12	4500	3.90	99	1-1/2	1-3/4

JM adapters do not include O-rings. Order separately.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

4FJM

Code 61 Flange - Male Seal-Lok - 45˚ Elbow



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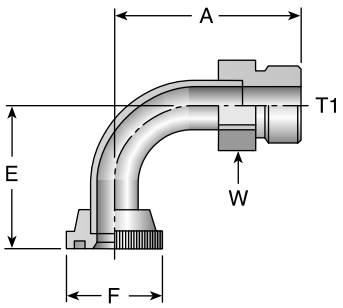
Part Number	Flange inch	Thread T1	Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch	F inch
4FJM-16-16	1	1-7/16x12	4500	3.64	92	1.27	33	1-1/2	1-3/4

JM adapters do not include O-rings. Order separately.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

4NJM

Code 61 Flange - Male Seal-Lok - 90˚ Elbow



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Part Number	Flange inch	Thread T1	Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch	F inch
4NJM-12-12	3/4	1-3/16x12	5000	2.90	74	2.24	57	1-1/4	1-1/2
4NJM-16-16	1	1-7/16x12	4500	3.38	86	2.81	71	1-1/2	1-3/4
4NJM-20-20	1-1/4	1-11/16x12	4000	4.44	113	2.99	76	1-3/4	2

JM adapters do not include O-rings. Order separately.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

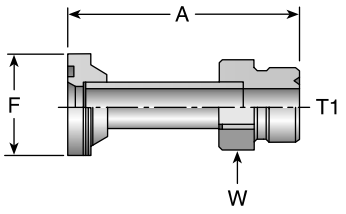
6AJM

Code 62 Flange - Male Seal-Lok

Part Number	Flange inch	Thread T1	Maximum Working Pressure psi	A inch	A mm	W inch	F inch
6AJM-12-12	3/4	1-3/16x12	5000	3.65	93	1-1/4	1-5/8
6AJM-16-16	1	1-7/16x12	4500	3.90	99	1-1/2	1-7/8

JM adapters do not include O-rings. Order separately.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



view on web page

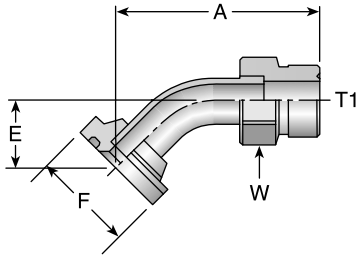
6FJM

Code 62 Flange - Male Seal-Lok - 45˚ Elbow

Part Number	Flange inch	Thread T1	Maximum Working Pressure psi	A inch	A mm	E inch	E mm	W inch	F inch
6FJM-12-12	3/4	1-3/16x12	5000	3.22	82	1.06	27	1-1/4	1-5/8
6FJM-16-16	1	1-7/16x12	4500	3.64	92	1.27	33	1-1/2	1-7/8

JM adapters do not include O-rings. Order separately.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



view on web page

6NJM

Code 62 Flange - Male Seal-Lok - 90˚ Elbow

Part Number	Flange inch	Thread T1	Maximum Working Pressure psi	A in	A mm	E in	E mm	W inch	F inch
6NJM-12-12	3/4	1-3/16x12	5000	2.90	74	2.24	57	1-1/4	1-5/8
6NJM-16-16	1	1-7/16x12	5000	3.38	86	2.81	71	1-1/2	1-7/8
6NJM-20-20	1-1/4	1-11/16x12	4000	4.44	113	2.99	76	1-3/4	2-1/8

JM adapters do not include O-rings. Order separately.

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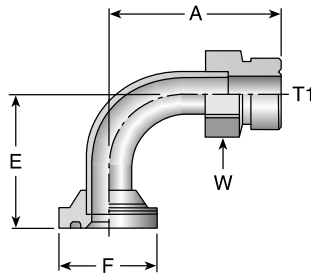

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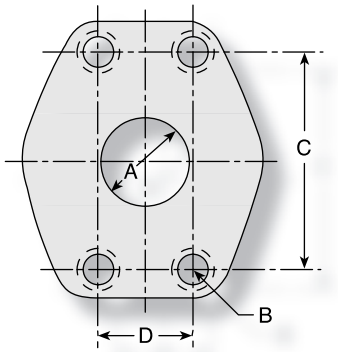
SAE J518 port dimensions for 4-Bolt Split Flanges

There are two non-interchangeable SAE split flanges:

a: Standard or Code 61 is for 3,000psi to 5,000psi maximum, depending on size.
b. High Pressure or Code 62 is for 6,000psi maximum, regardless of size. The flange head is "V" notched for identification.



Consult these tables to determine flange halves and flange kits specifications.

Standard Pressure (Code 61) view on web page

Nominal Flange	Flange Dash Size	A Dia Max		B Thread	C		D		Maximum Working Pressure	
		inch	mm	inch	±0.010 inch	±0,25 mm	±0.010 inch	±0,25 mm	psi	MPa
1/2	-8	0.50	13	5/16x18	1.50	38,10	0.68	17,47	5000	34,5
3/4	-12	0.75	19	3/8x16	1.88	47,63	0.87	22,22	5000	34,5
1	-16	1.00	25	3/8x16	2.06	52,37	1.03	26,18	5000	34,5
1 1/4	-20	1.25	32	7/16x14	2.31	58,72	1.18	30,17	4000*	27,6
1 1/2	-24	1.50	38	1/2x13	2.75	69,85	1.40	35,71	3000*	20,7
2	-32	2.00	51	1/2x13	3.06	77,77	1.68	42,87	3000*	20,7

Note: *5000 psi with 4A, 4F and 4N Fittings and 50H Flange Halves.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

High Pressure (Code 62) view on web page

Nominal Flange	Flange Dash SIze	A Dia Max		B Thread	C		D		Maximum Working Pressure	
		inch	mm	inch	±0.010 inch	±0,25 mm	±0.010 inch	±0,25 mm	psi	MPa
3/4	-12	0.75	19	3/8x16	2.00	47,75	0.88	22,35	6000	41,4
1	-16	1.00	25	7/16x14	2.25	57,15	1.09	27,76	6000	41,4
1-1/4	-20	1.25	32	1/2x13	2.63	66,67	1.25	31,75	6000	41,4
1-1/2	-24	1.50	38	5/8x11	3.13	79,37	1.43	36,49	6000	41,4
2	-32	2.00	51	3/4x10	3.81	96,82	1.75	44,45	6000	41,4

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50H

5000 psi Flange Half (Code 61)

Part Number	SAE Flange Size inch	A inch	B inch	C inch	Maximum Working Pressure psi
50H-20	1-1/4	2.31	0.55	0.47	5000
50H-24	1-1/2	2.75	0.66	0.53	5000
50H-32	2	3.06	0.80	0.53	5000

Note: For use with 4A, 4F and 4N Flanges.

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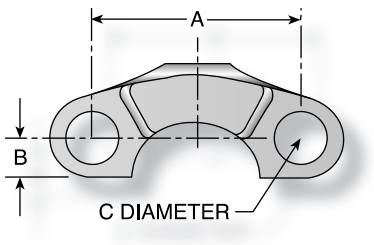

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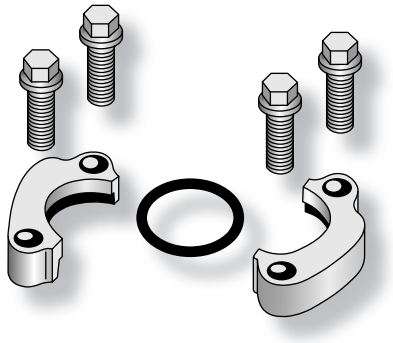
5050HK

5000 psi Flange Kit (Code 61)

Part Number	SAE Flange Size inch	Maximum Working Pressure psi	(2) Flange Halves	O-Ring	(4) Bolts Grade 8		(4) Washers
					Thread inch	Length inch	
5050HK-20	1-1/4	5000	50H-20	711510-3	7/16x14	1-1/2	7/16
5050HK-24	1-1/2	5000	50H-24	711510-2	1/2x13	1-1/2	1/2
5050HK-32	2	5000	50H-32	711510-1	1/2x13	1-1/2	1/2

Note: For use with 4A, 4F and 4N Flanges.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



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51H

SAE Flange Half (Code 61)

Part Number	SAE Flange Size inch	A inch	B inch	C inch	Maximum Working Pressure psi
51H-8	1/2	1.50	0.31	0.35	5000
51H-12	3/4	1.88	0.40	0.42	5000
51H-16	1	2.06	0.48	0.42	5000
51H-20	1-1/4	2.31	0.56	0.42	4000
51H-24	1-1/2	2.75	0.67	0.53	3000
51H-32	2	3.06	0.81	0.53	3000
51H-40	2-1/2	3.50	0.96	0.53	2500
51H-48	3	4.19	1.18	0.66	2000

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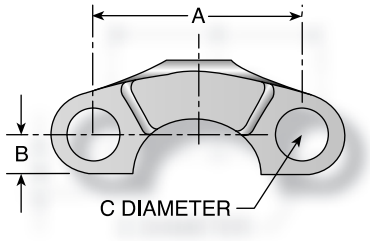

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5151HK

SAE Flange Kit (Code 61)

Part Number	SAE Flange Size inch	Maximum Working Pressure psi	(2) Flange Halves	O-Ring	(4) Bolts Grade 8		(4) Washers
					Thread inch	Length inch	
5151HK-8	1/2	5000	51H-8	711510-6	5/16x18	1-1/4	5/16
5151HK-12	3/4	5000	51H-12	711510-5	3/8x16	1-1/4	3/8
5151HK-16	1	5000	51H-16	711510-4	3/8x16	1-1/4	3/8
5151HK-20	1-1/4	4000	51H-20	711510-3	7/16x14	1-1/2	7/16
5151HK-24	1-1/2	3000	51H-24	711510-2	1/2x13	1-1/2	1/2
5151HK-32	2	3000	51H-32	711510-1	1/2x13	1-1/2	1/2
5151HK-40	2-1/2	2500	51H-40	711510-7	1/2x13	1-3/4	1/2
5151HK-48	3	2000	51H-48	711510-8	5/8-11	1-3/4	5/8

Note: High pressure applications also require the use of Code 61 Flange End hose fittings.

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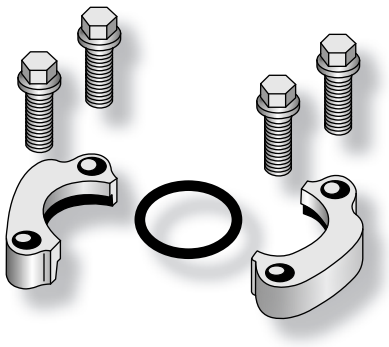

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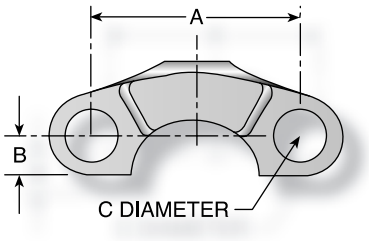
HFH

SAE Flange Half (Code 62)



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Part Number	SAE Flange Size inch	A inch	B inch	C inch	Maximum Working Pressure psi
HFH-12	3/4	2.00	0.43	0.41	6000
HFH-16	1	2.25	0.51	0.47	6000
HFH-20	1 1/4	2.62	0.59	0.53	6000
HFH-24	1 1/2	3.12	0.68	0.66	6000
HFH-32	2	3.81	0.84	0.78	6000

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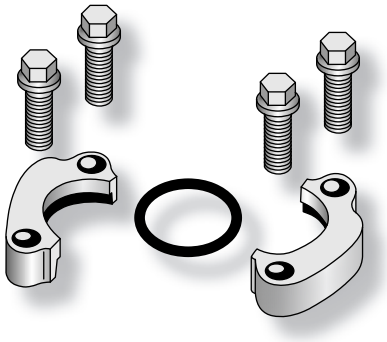
HFHFHK

SAE Flange Kit (Code 62)



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Part Number	SAE Flange Size inch	Maximum Working Pressure psi	(2) Flange Halves	O-Ring	(4) Bolts Grade 8		(4) Washers
					Thread inch	Length inch	
HFHFHK-12	3/4	6000	HFH-12	711510-5	3/8x16	1-1/2	3/8
HFHFHK-16	1	6000	HFH-16	711510-4	7/16x14	1-3/4	7/16
HFHFHK-20	1-1/4	6000	HFH-20	711510-3	1/2x13	1-3/4	1/2
HFHFHK-24	1-1/2	6000	HFH-24	711510-2	5/8x11	2-1/4	5/8
HFHFHK-32	2	6000	HFH-32	711510-1	3/4x10	2-3/4	3/4

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DIN and ISO Metric Ports

DIN (German) and ISO (International Organization for Standardization) flange heads are the same as SAE flange heads. By comparison, the ports have the same configuration except that the DIN and ISO Type I ports accept metric bolts. This requires special flange halves in most sizes.

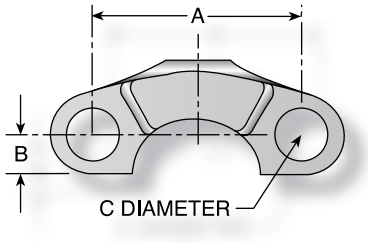
SAE J518	DIN 20078	ISO 6162 Type I
Code 61	Form R	3,5 to 35 MPa Series
Code 62	Form S	35 to 40 MPa Series

M1H

DIN (ISO) Flange Half

Part Number	DIN Flange Size	ISO Flange Size	A mm	B mm	C mm	Maximum Working Pressure psi	Maximum Working Pressure MPa
51H-12	12	19	48	10	11	5000	34,5
51H-16	16	25	52	12	11	5000	34,5
51H-20	20	32	59	14	11	4000	27,6
51H-24	24	38	70	17	13.5	3000	20,7

Note: High pressure applications also require the use of Code 62 Flange End hose fittings.



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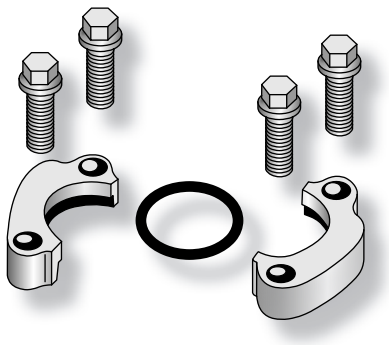
M1M1HK

DIN (ISO) Flange Kit (Code 61)

Part Number	DIN Flange Size	ISO Flange Size	Maximum Working Pressure psi	Maximum Working Pressure MPa	(2) Flange Ha	O-Ring	(4) Bolts Thread mm	(4) Bolts Length mm	(4) Washers
M1M1HK-8	8	13	5000	34,5	51H-8	711510-6	M8x1.25	30	10
M1M1HK-12	12	19	5000	34,5	51H-12	711510-5	M10x1.50	30	10
M1M1HK-16	16	25	5000	34,5	51H-16	711510-4	M10x1.50	30	10
M1M1HK-20	20	32	4000	27,6	51H-20	711510-3	M10x1.50	40	10
M1M1HK-24	24	38	3000	20,7	M1H-24	711510-2	M12x1.75	40	12
M1M1HK-32	32	51	3000	20,7	M1H-32	711510-1	M12x1.75	40	12



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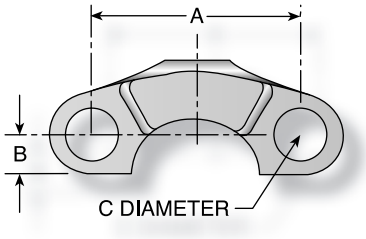

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M2H

DIN (ISO) Flange Half (Code 62)

Part Number	DIN Flange Size	ISO Flange Size	A mm	B mm	C mm	Maximum Working Pressure psi	MPa
HFH-12	12	19	51	11	10,6	6000	41,5
M2H-16	16	25	57	13	13,5	6000	41,5
M2H-20	20	32	67	15	15,0	6000	41,5
HFH-24	24	38	79	17	16,7	6000	41,5
HFH-32	32	51	97	21	20,6	6000	41,5

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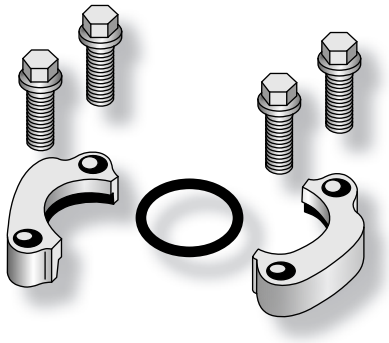

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M2M2HK

DIN (ISO) Flange Kit (Code 62)

Part Number	DIN Flange Size	ISO Flange Size	Maximum Working Pressure psi	MPa	(2) Flange Halves	O-Ring	(4) HHCS Thread mm	Length mm	(4) Washers
M2M2HK-8	8	13	6000	41,5	M2H-8	711510-6	M8x1.25	30	8
M2M2HK-12	12	19	6000	41,5	HFH-12	711510-5	M10x1.50	35	10
M2M2HK-16	16	25	6000	41,5	M2H-16	711510-4	M12x1.75	45	12
M2M2HK-20	20	32	6000	41,5	M2H-20	711510-3	M12x1.75	45	12
M2M2HK-24	24	38	6000	41,5	HFH-24	711510-2	M16x2.00	55	16
M2M2HK-32	32	51	6000	41,5	HFH-32	711510-1	M20x2.50	70	20

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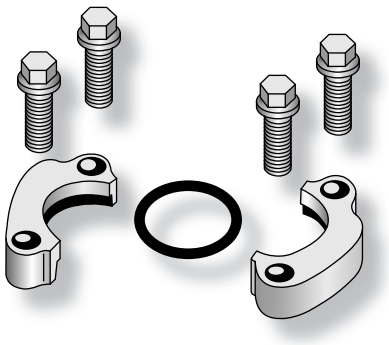

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XCXCHK

Caterpillar® Flange Kits

Part Number	C Diameter inch	Maximum Working Pressure psi	O-Ring	(4) Bolts Grade 8 Thread inch	Length inch	(4) Washers
XCXCHK-12	0.406	6000	XARG-12	3/8-16	1.75	3/8
XCXCHK-16	0.469	6000	XARG-16	7/16-14	1.75	7/16
XCXCHK-20	0.531	6000	XARG-20	1/2-13	2.00	1/2
XCXCHK-24	0.656	6000	XARG-24	5/8-11	2.50	5/8
XCXCHK-32	0.827	6000	XARG-32	3/4-10	2.75	3/4

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Engineered Flange Seal
Engineered to seal. Designed

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The Engineered Flange Seal (EFS) is designed to fit precisely into the seal groove of a Parker Code 61 or Code 62 Flange. Unlike standard O-rings that tend to pop out of the flange groove, the engineered shape of EFS fits precisely, providing consistently strong seal retention. O-rings pinching or falling out during assembly will no longer be an issue. O-rings with unsecured retention can cause dangerous, and time consuming hose assembly leaks. EFS reduces the possibility of the O-ring falling out, rework, replacement, and provides for quick assembly.

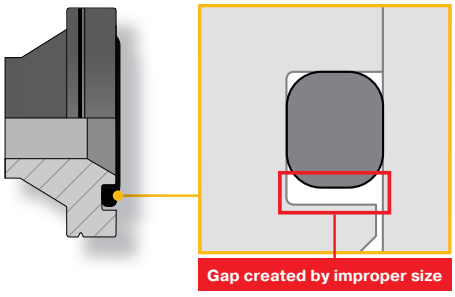
Your high pressure applications will benefit from its secure, engineered design. After installing Parker's EFS, you can expect reduced downtime and increased confidence from your guaranteed leak-free assembly.

Product Features:

- Secure seal retention before, during and after installation
- Engineered for high pressure applications
- Quick assembly with no tooling or lubrication needed
- Reduced risk of seal damage and leakage
- Ability to withstand working temperatures up to 247°F
- 90 durometer nitrite

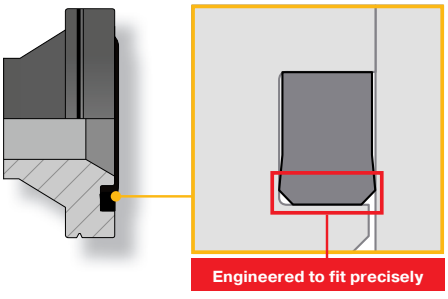
Part Number	Nominal Size	Dash Size
EFS-8	1/2	-8
EFS-12	3/4	-12
EFS-16	1	-16
EFS-20	1-1/4	-20
EFS-24	1-1/2	-24
EFS-32	2	-32

Standard O-Ring



Standard O-rings have an unnatural fit in Code 61 and Code 62 flanges because of their improper size and shape. This off-the-shelf solution creates a gap which can lead to difficult installation, hose assembly leakage and the potential for the O-ring to fall out.

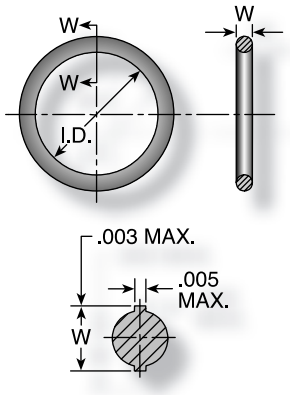
Engineered Flange Seal



The EFS fits precisely in Code 61 and Code 62 flanges because its shape and size are engineered for the space and application. Its purpose-designed shape reduces the possibility of pop out, and the need to replace or reinstall the O-ring, eliminating costly leakage and time consuming pre-assembly handling.

711509

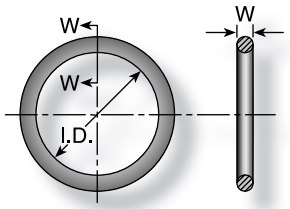
O-Rings - SAE Thread (Compound N552-90)*



Part Number	Tube Dash Size	Tube O.D.	SAE Thread	W		I.D.	
		inch	inch	inch	mm	inch	mm
711509-1	-4	1/4	7/16x20	0.072	1,83	0.351	8,92
711509-2	-5	5/16	1/2x20	0.072	1,83	0.414	10,52
711509-3	-6	3/8	9/16x20	0.078	1,98	0.468	11,89
711509-4	-8	1/2	3/4x16	0.087	2,21	0.644	16,36
711509-5	-10	5/8	7/8x14	0.097	2,46	0.755	19,18
711509-6	-12	3/4	1-1/16x12	0.116	2,95	0.924	74,93
711509-7	-16	1	1-5/16x12	0.116	2,95	1.171	29,74
711509-8	-20	1-1/4	1-5/8x12	0.118	3,00	1.475	37,47
711509-9	-24	1-1/2	1-7/8x12	0.118	3,00	1.720	43,69
711509-10	-32	2	2-1/2x12	0.118	3,00	2.337	59,36

711510

O-Rings - Code 61 and Code 62 Flanges (Compound N552-90)*



Part Number	Flange Dash Size	Flange Size	W		I.D.	
		inch	inch	mm	inch	mm
711510-6	-8	1/2	0.14	3,53	0.73	18,64
711510-9*	-10	5/8	0.14	3,53	0.79	20,20
711510-5	-12	3/4	0.14	3,53	0.98	25,00
711510-4	-16	1	0.14	3,53	1.29	32,92
711510-3	-20	1-1/4	0.14	3,53	1.48	37,69
711510-2	-24	1-1/2	0.14	3,53	1.85	47,22
711510-1	-32	2	0.14	3,53	2.23	56,74
711510-7	-40	2-1/2	0.14	3,53	2.73	69,44
711510-8	-48	3	0.14	3,53	3.35	85,32

***Note:** For use with petroleum base fluids, other compounds available for Phosphate Ester fluids. Please contact The Parker Hannifin Seal Group/O-Ring Division (1-800-C-PARKER) for additional information.

D9DT

Bonded Seal for BSPP Port Fittings

Part Number	I.D.		O.D.	
	Inch	mm	Inch	mm
D9DT-4	0.54	13,7	0.81	20,6
D9DT-6	0.68	17,3	0.94	23,9
D9DT-8	0.85	21,6	1.13	28,7
D9DT-10	0.93	23,6	1.25	31,8
D9DT-12	1.06	27,0	1.38	35,1
D9DT-16	1.33	33,8	1.68	42,7

***Note:** D9DT must be ordered from the Tube Fittings Division. Please contact TFD for additional size and product information.

J0RG

O-Rings - Seal-Lok®

Part Number	Tube Dash Size	Tube O.D.	SAE Thread	I.D.		O.D.	
		Inch	Inch	Inch	mm	Inch	mm
J0RG-4	-4	1/4	9/16x18	0.301	7,65	0.070	1,78
J0RG-6	-6	3/8	11/16x16	0.364	9,25	0.070	1,78
J0RG-8	-8	1/2	13/16x16	0.489	12,42	0.070	1,78
J0RG-10	-10	5/8	1x14	0.614	15,59	0.070	1,78
J0RG-12	-12	3/4	1-3/16x12	0.739	18,77	0.070	1,78
J0RG-16	-16	1	1-7/16x12	0.926	23,52	0.070	1,78
J0RG-20	-20	1-1/4	1-11/16x12	1.176	29,87	0.070	1,78
J0RG-24	-24	1-1/2	2x12	1.489	37,82	0.070	1,78

Note: O-Rings for use in Seal-Lok® connections are illustrated in actual size. Part numbers for O-Rings used in Seal-Lok® and in SAE port connections are also listed in the table. O-Rings are supplied in Nitrile NBR compound, 90 durometer hardness.

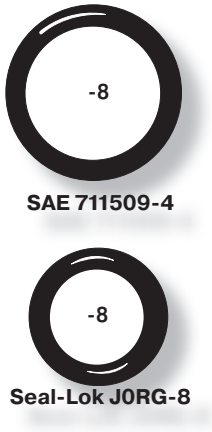
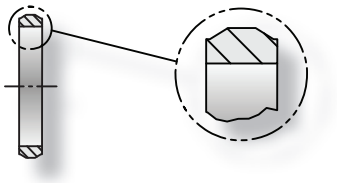


Photo shows an actual comparison between an SAE port O-Ring (top) and a Seal-Lok® O-Ring (bottom). They differ in both diameter and cross section.

XARG

Flange "D" Rings Caterpillar® Style Flanges



Part Number	Flange Size	Dash Size	Seal Thickness		I.D.		Fitting Series & Pressure Rating		Replaces P/N
			Inch	mm	Inch	mm	78 - 79 psi	76 psi	
XARG-12	3/4	-12	0.20	5,0	1.00	25,4	6,000	8,000	8ARG-12
XARG-16	1	-16	0.20	5,0	1.25	31,8	6,000	8,000	8ARG-16
XARG-20	1-1/4	-20	0.20	5,0	1.50	38,1	6,000	8,000	8ARG-20
XARG-24	1-1/2	-24	0.20	5,0	1.75	44,5	6,000	-	-
XARG-32	2	-32	0.20	5,0	2.52	63,9	6,000	-	-

59RG

O-Rings for Tube O-Ring Fittings and Compressor Fittings

Part Number	Tube O.D. Inch	Tube Dash Size	Parker Seal Number
59RG-6	3/8	-6	2-011
59RG-8	1/2	-8	2-013
59RG-10	5/8	-10	2-015
59RG-12	3/4	-12	2-017

T1RG

O-Rings for Compression Fittings (1T126)

Part Number	Tube O.D. Inch	Tube Dash Size	Parker Seal Number
T1RG-6	3/8	-6	2-012
T1RG-8	1/2	-8	2-014
T1RG-10	5/8	-10	2-016
T1RG-12	3/4	-12	2-018

R12

Part Number	Thread
940249	7/16x20

CORG

Captive O-Ring Assembly Tools

Parker's new CORG Assembly Tools are designed to facilitate the installation of the O-Ring into the half-dovetail groove of the O-Ring face seal fitting.

Fitting Size	Hand Type Part Number	Bench Type Part Number
-4	CORG-4	CORG-AT04 Bench
-6	CORG-6	CORG-AT06 Bench
-8	CORG-8	CORG-AT08 Bench
-10	CORG-10	CORG-AT10 Bench
-12	CORG-12	CORG-AT12 Bench
-16	CORG-16	CORG-AT16 Bench
-20	CORG-20	CORG-AT20 Bench
-24	CORG-24	CORG-AT24 Bench
-32	CORG-32	

Bench Type

Hand Type

Note: CORG Assembly Tools must be ordered from the Tube Fittings Division (614) 279-7070.

Note: O-Rings listed are for use with petroleum base fluids. Other compounds are available for Phosphate Ester fluids by special order. For Viton® or other O-Ring compounds, consult Parker Hannifin, Seal/O-Rings Products Division (1-800-C-PARKER.)

Partek Defense

Reliable, long-lasting protection

Partek Defense is designed to provide protection to personnel and equipment in the event of a hose burst by containing the energy of the burst.

Partek Defense features a multi-layered construction that contains and then dissipates the energy and media within the hose assembly.

Partek Defense can be applied in any hose application but is most valuable in industries such as mining, construction and agriculture where operators are in close proximity to high-pressure hoses.

view on web page

Product Features

- Contains hose bursts up to 12,000 psi
- MSHA rated
- Meets ISO 3457, ISO 4413, EN 414, MDG41
- Multi-layer construction
- Sizes -4 to -16
- Made of high-performance materials and a proprietary weave pattern for reliable, long-lasting protection
- Easy to assemble
- Packaged in 50-ft. reels
- Temperature range: -70°F to +302°F

Installation Instructions

- For use with one hose per sleeve
- Identify the size of the hose that needs to be protected
- Select the matching sleeve size from the chart
- Cut the sleeve length equal to the overall hose assembly length plus two inches
- Cut with a heat blade or heat scissors to avoid fraying
- Slide sleeve over the hose assembly (hose should be inserted into yellow layer)
- Must secure end of sleeve to hose fitting shell using a metal band clamp and the FSC Clamp Tool, part number FST-711617

Partek Defense Hose Sleeve

Part Number	Hose Size ID*	Sleeve Flat ID "A"		Sleeve Round ID "B"	
		inch	mm	inch	mm
YS-B-17	-4	1.92	49	1.22	31
YS-B-19	-6	2.12	54	1.35	34
YS-B-22	-8	2.24	57	1.45	36
YS-B-27	-10	2.55	65	1.63	41
YS-B-33	-12	2.85	72	1.81	46
YS-B-37	-16	3.73	95	2.38	60

***Approved with 43, 70, 71, 77 and 79 Series fittings.**

Partek Wrap

The need for a protective hose sleeve is not always considered while designing for a hose's application. Many hose assembly installations would benefit from a sleeve, but it is not obvious until all the other hoses and components are in place. Parker's Partek Wrap enables the hose sleeve to be installed after the hose assemblies have been positioned and secured in place. The Partek Wrap can be used as extra abrasion protection or to wrap multiple hoses or cables together.

Product Features

- Post assembly installation
- Light weight and highly flexible
- Urethane-coated 1050 Ballistic Nylon
- Ambient temperature range of -60°F to +200°F
- Fast and easy installation
- MSHA Certified for use in underground mines
- Stays closed using hook & loop fastener

view on web page

Partek Wrap

Part Number	Bundle O.D. inch	Circumference inch	Open Width (+/- 0.375) inch	Roll Length feet	Color
PS-BV-100	1	3.25	4.00	50	Black
PS-BV-200	2	6.00	7.75	50	Black
PS-BV-300	3	9.40	10.90	50	Black
PS-BV-400	4	12.50	14.00	50	Black
PS-BV-500	5	15.75	17.25	50	Black
PS-BV-700	7	22.00	23.50	50	Black

Protective Coils, Sleeves & Guards

Partek Sleeve

Parker's Partek Nylon Protective Sleeving gives you tough hose abrasion protection two ways. First, per the ISO 6945 specification, Partek has a unique tubular weave nylon construction. Partek "AS" is strong enough to withstand greater than 200,000 abrasion cycles without wearing through the fabric at any location.

Partek "PS" can withstand greater than 50,000 abrasion cycles. In addition, this weave also gives an exceptionally smooth interior wall, allowing rubber hose to move freely inside the sleeve. This provides easy installation and prevents any internal abrasion problems. Partek sleeving is available in either black or yellow and in sizes to fit most hydraulic hose. Partek, the quick and easy solution to hose protection in high-abrasion areas.

view on web page

Partek Sleeve (Black) Part Number	Partek Sleeve (Yellow) Part Number	Partek PS Sleeve (Black) Part Number	Inside Dia. A inch	Inside Dia. B inch
AS-B-11	AS-Y-11		1.07	0.69
AS-B-13	AS-Y-13	PS-B-13	1.34	0.86
AS-B-15	AS-Y-15	PS-B-15	1.66	1.06
AS-B-17	AS-Y-17	PS-B-17	1.92	1.22
AS-B-19	AS-Y-19		2.12	1.35
AS-B-22	AS-Y-22	PS-B-22	2.24	1.42
AS-B-27	AS-Y-27		2.55	1.63
AS-B-33	AS-Y-33	PS-B-33	2.85	1.81
AS-B-35	AS-Y-35	PS-B-35	3.43	2.19
AS-B-37	AS-Y-37	PS-B-37	3.73	2.38
		PS-B-39	4.12	2.63
		PS-B-45	4.53	2.88
AS-B-47		PS-B-47	4.90	3.13
AS-B-58			5.69	3.63
AS-B-64			6.81	4.00

PolyGuard

Parker's PolyGuard is a black, heavy-duty polyethylene shield that provides protection in rugged operating conditions. PolyGuard is used to prevent hose assemblies from abrasion and cuts while also minimizing kinking of the hose. PolyGuard can be used to bundle high-pressured hose lines.

PolyGuard can be installed without removing hose lines and without the use of clamps for easy installation. This shield resists water, oil, gasoline, hydraulic fluid and most solvents.

Use the formula below to determine the length of sleeve required.

Temperature Range: 0°F to +200°F
(-17°C to +93°C)

Caution: This material will support combustion.

$$\frac{\text{Hose O.D.} \times \text{Length to be Protected}}{\text{Dimension A}} + \text{Dimension B}$$

view on web page

Part Number	Inside Diameter "A" (inch)	Coil Width "B" (inch)
HG-075	0.75	0.95
HG-100	1.00	1.25
HG-125	1.25	1.35
HG-150	1.50	1.50
HG-200	2.00	1.60
HG-350	3.50	1.95

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

ParKoil

Parker's ParKoil is a lower-cost protection shield for applications that call for a tighter bend radius and are less demanding. ParKoil is easy to install and is used to prevent hose assemblies from abrasion and cuts while also minimizing kinking of the hose. ParKoil is great for bundling high-pressured hose lines.

Use the formula below to determine the length of sleeve required.

Temperature Range: 0°F to +200°F
(-17°C to +93°C)

Caution: This material will support combustion.

$$\frac{\text{Hose O.D.} \times \text{Length to be Protected}}{\text{Dimension A}} + \text{Dimension B}$$

view on web page

Part Number	Inside Diameter "A" (inch)	Coil Width "B" (inch)
PG-038	0.38	0.25
PG-050	0.50	0.40
PG-062	0.62	0.40
PG-075	0.75	0.40
PG-088	0.88	0.40
PG-100	1.00	0.65
PG-119	1.19	0.65
PG-138	1.38	0.65
PG-188	1.88	0.65

See pages 299 through 305 for sleeve selection guide.

Protective Coils, Sleeves & Guards

Spring Guard

Parker's Spring Guard prolongs the life of hose lines that are exposed to rugged operating conditions by distributing bending radii to avoid kinking in the hose lines and protects hose from abrasion and deep cuts. Guards are constructed of steel wire and plated to resist rust.

Spring Guard is packaged in 10 ft. pieces.

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Polyguard Strain Reliever

The Polyguard Strain Reliever is designed to limit kinking of hose assemblies. These strain relievers are made from flexible PVC making them easy to install and use.

Temperature Range: -40˚F to +225˚F (-40˚C to +107˚C)

view on web page

Spring Guard Part Number	Inside Diameter
SG-060	0.60
SG-072	0.72
SG-084	0.84
SG-097	0.97
SG-113	1.13
SG-122	1.22
SG-131	1.32
SG-155	1.55
SG-182	1.82
SG-209	2.09
SG-232	2.32
SG-292	2.92

Part Number	Length (inch)	Hose O.D. (inch)
4PG	7	0.53
6PG	7	0.63
7PG	7	0.69

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

See pages 299 through 305 for sleeve selection guide.

Firesleeve (FS-F)

Parker Firesleeve is a flame resistant sheath that protects the hose from extreme temperature conditions. Firesleeve easily slides over hoses and readily expands over fitting. It can be assembled with Parker FSC or properly sized wormgear clamp.

Construction: Braided fiberglass sleeve and an orange, bonded and seamless silicone rubber cover.

Specifications: Conforms to SAE Aerospace Standard 1072E.

Temperature Range: -65˚F to +500˚F (-54˚C to +260˚C) continuous exposure, up to 2000˚F (1093˚C) for 15-20 minutes and up to 3000˚F (1650˚C) for 15-30 seconds.

Note: The Firesleeve inside dimension (I.D.) must exceed the outside diameter (O.D.) of the hose and offer an allowance for easy hose insertion. For example, 201-16 has a 1.23 in. O.D. FS-S-24, with an I.D. of 1.46 in., is the suggested Firesleeve.

Firesleeve (FS-F)

view on web page

FSC Clamp (FSC)
(One size fits all hoses up to 2 inch O.D.)

view on web page

Firesleeve Tape
(FSS-Tape-16)

view on web page

Certifications and Specifications

- UL 1441 Certified
- VW1 Flame Test Certified
- MSHA Certified for use in underground mines
- SAE AS1072E
- DNV-GL Certified to 800˚C/30 mins. (ISO15540 & ISO15541)
- BS EN 373 Molten Splash Tested
- BS EN 388 Abrasion Tested
- BS EN ISO 6940 Flame Resistance Tested
- BS EN ISO 6530 Oil Resistance Tested
- BS 2576 Tensile Strength Tested
- DIN 45545 Low Smoke Toxicity
- DIN 54837 / 5510-2 Rail Vehicle Certified for Resistance to Combustibility
- DIN 5659-2 /5510-2 Rail Vehicle Certified for Toxicity
- LNE French Rail Certification STM-S-001; Class F0
- DIN EN45545-2:2013-08 Rail Certification
- Oil and Fluid Resistance: Impervious to most liquids including those with a hydrocarbon base. Remains functional after immersion for 120 hours at 80˚F in MIL-L-6082 and Skydrol 500.

FS-F Sizes

Part Number	Inside Diameter
FS-F-10	0.58
FS-F-11	0.65
FS-F-12	0.71
FS-F-14	0.84
FS-F-16	0.96
FS-F-18	1.08
FS-F-20	1.21
FS-F-22	1.34
FS-F-24	1.46
FS-F-28	1.72
FS-F-30	1.84
FS-F-32	1.96
FS-F-38	2.34
FS-F-40	2.46
FS-F-48	2.96
FS-F-60	3.71

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Firesleeve Assembly Instructions

1. Cut Firesleeve to the same length as hose.
2. Crimp one end of hose. Slide Firesleeve over uncrimped end of hose.
3. Push Firesleeve back from uncrimped end of hose and crimp second fitting on hose. Align the Firesleeve so it covers the crimp shell on both ends.
4. Using FSS-Tape-16, tape Firesleeve to fittings making sure to cover all exposed ends of the Firesleeve fiber. Repeat on the other end.
5. Clamp Firesleeve in place using the FSC Clamp.

Note: If assembling with Firesleeve tape, please stretch tape during installation using at least a 50% overlap. For best results, use on clean, dry surfaces free from dirt and oil.

Protection Shields

Prevent hose abrasion while extending your hose life. Parker Hose Protection Shields extend hose life by protecting the hose from abrasion that occurs when hose rubs against other hose, metal or concrete. Parker hose shields are resistant to oil, lubricants, gasoline, most solvents and can withstand ambient temperatures from -40° to +300° F. Easily installed and secured by cable ties without disconnecting any hose lines. Use with hose from 1/4" to 2" I.D.

Assembly Instructions

These flexible protectors simply clamp around the hose and are securely held in place by nylon cable ties which are included. The cable ties are recessed in molded grooves to protect them from abrasion. You don't need to disconnect a line to install a Parker Hose Protector Shield the way you do with a continuous tubular sleeve. Just wait until the installation is up and running to see exactly where contact needs to be prevented.

Parker Hose Protector Shields are available in bulk quantities and in convenient assortments in 4", 6" and 8" sizes. Cable ties are included with all protectors and are also available in bulk.

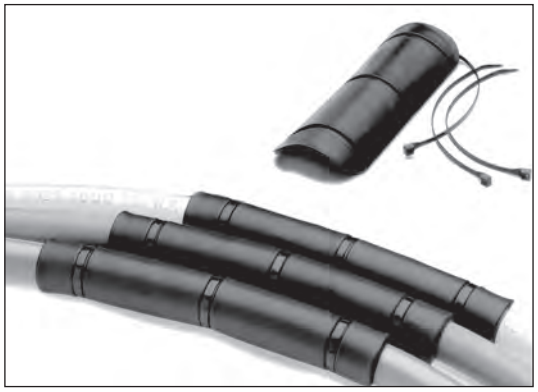
Retail Counter Display

Part number: HP-B-13X18

Kit Includes:
20 - 4" Hose Protectors (HP-B-13)
60 - Tie Wraps (HT-12) for HP-B-13
20 - 6" Hose Protectors (HP-B-15)
60 - Tie Wraps (HT-16) for HP-B-15
20 - 8" Hose Protectors (HP-B-18)
60 - Tie Wraps (HT-22) for HP-B-18

Display Refills

Part Number	Description
HP-B-13-RFL	10 - 4" Hose Protectors (HP-B-13) 30 - Tie Wraps (HT-12)
HP-B-15-RFL	10 - 6" Hose Protectors (HP-B-15) 30 - Tie Wraps (HT-16)
HP-B-18-RFL	5 - 8" Hose Protectors (HP-B-18) 15 - Tie Wraps (HT-22)
HT-12-KIT	30 - Tie Wraps (HT-12) for HP-B-13 Hose Protector
HT-16-KIT	30 - Tie Wraps (HT-16) for HP-B-15 Hose Protector
HT-22-KIT	15 - Tie Wraps (HT-22) for HP-B-18 Hose Protector



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Retail Counter Display

Note: Parker Hose Protector Shield products are intended to prevent damage. They are not suitable as patches or repairs for lines which are already damaged or worn beyond safe use standards.

Protective Coils, Sleeves & Guards Selection Guide

Hose Part Number	Hose OD (in)	Partek Defense	Partek Sleeve: Black	Partek Sleeve: Yellow	Partek PS Sleeve Black	PolyGuard	ParKoil	Spring Guard	Firesleeve
187-8	0.810	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
187-10	0.93	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
187-12	1.08	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
187-16	1.41	YS-B-37	AS-B-27	AS-Y-27	PS-B-33	HG-150	PG-188	SG-155	FS-F-24
187-20	1.75	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
187-24	2.04	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
187-32	2.54	-	AS-B-47	-	PS-B-47	HG-350	PG-188	SG-292	FS-F-48
187-40	2.97	-	AS-B-58	-	-	HG-350	PG-188	-	-
187-48	3.44	-	AS-B-64	-	-	HG-350	PG-188	-	-
201-4	0.52	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
201-5	0.582	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-11
201-6	0.675	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
201-8	0.766	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
201-10	0.922	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
201-12	1.078	-	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-18
201-16	1.235	-	AS-B-22	AS-Y-22	PS-B-22	HG-125	PG-138	SG-131	FS-F-22
201-20	1.5	-	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
201-24	1.75	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
201-32	2.22	-	-	-	PS-B-39	HG-350	PG-188	SG-232	FS-F-38
201-40	2.88	-	AS-B-47	-	PS-B-47	HG-350	PG-188	SG-292	FS-F-48
201-48	3.56	-	AS-B-64	-	-	HG-350	PG-188	-	FS-F-60
206-4	0.52	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
206-5	0.58	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
206-6	0.68	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
206-8	0.77	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
206-10	0.92	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
206-12	1.08	-	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-18
206-16	1.23	-	AS-B-22	AS-Y-22	PS-B-22	HG-125	PG-138	SG-131	FS-F-22
206-20	1.5	-	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
206-24	1.75	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
206-32	2.22	-	-	-	PS-B-39	HG-350	PG-188	SG-232	FS-F-38
206-40	2.88	-	AS-B-47	-	PS-B-47	HG-350	PG-188	SG-292	FS-F-48
213-4	0.49	-	AS-B-11	AS-Y-11	-	HG-075	PG-050	-	FS-F-10
213-5	0.55	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
213-6	0.62	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	-	FS-F-11
213-8	0.74	-	AS-B-15	AS-Y-15	PS-B-15	HG-075	PG-075	SG-084	FS-F-14
213-10	0.83	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
213-12	0.96	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
213-16	1.21	-	AS-B-22	AS-Y-22	PS-B-22	HG-125	PG-138	SG-122	FS-F-20

NOTES: "X" indicates there is no recommended sleeve because the sleeve supports combustion.
Sizes indicated are suggestions only and based on hose O.D. A larger size may be required for over fitting applications.
Suggestions indicated are for standard, ToughCover, and SuperTough cover options.

Protective Coils, Sleeves & Guards Selection Guide

Hose Part Number	Hose OD (in)	Partek Defense	Partek Sleeve: Black	Partek Sleeve: Yellow	Partek PS Sleeve Black	PolyGuard	ParKoil	Spring Guard	Firesleeve
213-20	1.49	-	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
213-24	1.73	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
213-32	2.14	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	-	FS-F-38
213-40	2.88	-	AS-B-47	-	PS-B-47	HG-350	PG-188	SG-292	FS-F-48
221FR-5	0.582	X	X	X	X	X	X	SG-060	FS-F-11
221FR-6	0.676	X	X	X	X	X	X	SG-072	FS-F-12
221FR-8	0.766	X	X	X	X	X	X	SG-084	FS-F-14
221FR-10	0.922	X	X	X	X	X	X	SG-097	FS-F-16
221FR-12	1.078	X	X	X	X	X	X	SG-113	FS-F-18
221FR-16	1.235	X	X	X	X	X	X	SG-131	FS-F-22
244-16	1.23	-	AS-B-22	AS-Y-22	PS-B-22	HG-125	PG-138	SG-131	FS-F-22
244-20	1.5	-	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
244-24	1.75	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
266-4	0.52	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
266-5	0.58	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
266-6	0.68	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
266-8	0.77	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
266-10	0.92	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
266-12	1.08	-	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-18
266-16	1.24	-	AS-B-22	AS-Y-22	PS-B-22	HG-125	PG-138	SG-131	FS-F-22
266-20	1.5	-	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
266-24	1.75	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
271-4	0.25	-	AS-B-11	AS-Y-11	-	HG-075	PG-038	-	FS-F-10
271-6	0.75	-	AS-B-15	AS-Y-15	PS-B-15	HG-075	PG-075	SG-084	FS-F-14
271-8	0.88	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-088	SG-097	FS-F-16
285-4	0.49	-	AS-B-11	AS-Y-11	-	HG-075	PG-050	-	FS-F-10
285-6	0.62	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	-	FS-F-11
285-8	0.68	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
285-10	0.83	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
285-12	0.96	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
293-4	0.491	-	AS-B-11	AS-Y-11	-	HG-075	PG-050	-	FS-F-10
293-6	0.617	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	-	FS-F-11
293-8	0.737	-	AS-B-15	AS-Y-15	PS-B-15	HG-075	PG-075	SG-084	FS-F-14
293-10	0.831	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
293-12	0.956	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
293-16	1.206	-	AS-B-22	AS-Y-22	PS-B-22	HG-125	PG-138	SG-122	FS-F-20
302-4	0.591	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-11
302-5	0.654	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	-	FS-F-12

NOTES: "X" indicates there is no recommended sleeve because the sleeve supports combustion.
Sizes indicated are suggestions only and based on hose O.D. A larger size may be required for over fitting applications.
Suggestions indicated are for standard, ToughCover, and SuperTough cover options.

Protective Coils, Sleeves & Guards Selection Guide

Hose Part Number	Hose OD (in)	Partek Defense	Partek Sleeve: Black	Partek Sleeve: Yellow	Partek PS Sleeve Black	PolyGuard	ParKoil	Spring Guard	Firesleeve
302-6	0.748	YS-B-19	AS-B-15	AS-Y-15	PS-B-15	HG-075	PG-075	SG-084	FS-F-14
302-8	0.876	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-097	FS-F-16
302-10	1.002	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-119	-	FS-F-18
302-12	1.156	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-122	FS-F-20
302-16	1.5	YS-B-37	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
302-20	1.86	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-209	FS-F-32
302-24	2.14	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	-	FS-F-38
302-32	2.64	-	AS-B-47	-	PS-B-45	HG-350	PG-188	SG-292	FS-F-48
304-4	0.591	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-11
304-6	0.748	YS-B-19	AS-B-15	AS-Y-15	PS-B-15	HG-075	PG-075	SG-084	FS-F-14
304-8	0.876	YS-B-22	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-088	SG-097	FS-F-16
304-10	1.002	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-119	-	FS-F-18
304-12	1.156	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-122	FS-F-20
304-16	1.5	YS-B-37	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
304-20	1.86	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-209	FS-F-32
304-24	2.14	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	-	FS-F-38
304-32	2.64	-	AS-B-47	-	PS-B-45	HG-350	PG-188	SG-292	FS-F-48
387-4	0.526	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
387-6	0.685	YS-B-19	AS-B-15	AS-Y-15	PS-B-15	HG-075	PG-075	SG-072	FS-F-12
387-8	0.815	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
387-10	0.939	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
387-12	1.093	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
387-16	1.394	YS-B-37	AS-B-27	AS-Y-27	-	HG-150	PG-188	SG-155	FS-F-24
387-20	1.82	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
387-24	2.08	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
387-32	2.61	-	AS-B-47	-	PS-B-45	HG-350	PG-188	SG-292	FS-F-48
422-4	0.528	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
422-5	0.591	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-11
422-6	0.685	YS-B-19	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
422-8	0.81	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
422-10	0.939	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
422-12	1.095	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
422-16	1.41	YS-B-37	AS-B-27	AS-Y-27	-	HG-150	PG-188	SG-155	FS-F-24
422-20	1.79	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
422-24	2	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-209	FS-F-38
422-32	2.54	-	AS-B-47	-	PS-B-39	HG-350	PG-188	SG-292	FS-F-48
424-16	1.41	YS-B-37	AS-B-27	AS-Y-27	-	HG-150	PG-188	SG-155	FS-F-24
424-20	1.73	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
424-24	2	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-209	FS-F-38

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Protective Coils, Sleeves & Guards Selection Guide

Hose Part Number	Hose OD (in)	Partek Defense	Partek Sleeve: Black	Partek Sleeve: Yellow	Partek PS Sleeve Black	PolyGuard	ParKoil	Spring Guard	Firesleeve
424-32	2.5	-	AS-B-47	-	PS-B-39	HG-350	PG-188	SG-292	FS-F-48
426-4	0.528	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
426-6	0.68	YS-B-19	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
426-8	0.81	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
426-10	0.94	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
426-12	1.09	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
426-16	1.4	YS-B-37	AS-B-27	AS-Y-27	-	HG-150	PG-188	SG-155	FS-F-24
426-20	1.79	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
426-24	2	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-209	FS-F-38
426-32	2.54	-	AS-B-47	-	PS-B-39	HG-350	PG-188	SG-292	FS-F-48
436-6	0.685	YS-B-19	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
436-8	0.815	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
436-10	0.939	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
436-12	1.095	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
436-16	1.41	YS-B-37	AS-B-27	AS-Y-27	-	HG-150	PG-188	SG-155	FS-F-24
471-4	0.516	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
471-6	0.678	YS-B-19	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
471-8	0.804	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
471-10	0.939	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
471-12	1.093	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
471-16	1.394	YS-B-37	AS-B-27	AS-Y-27	-	HG-150	PG-188	SG-155	FS-F-24
472-20	1.79	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
472-24	2.01	-	AS-B-35	AS-Y-35	PS-B-35	HG-350	PG-188	SG-209	FS-F-38
472-32	2.54	-	AS-B-47	-	PS-B-39	HG-350	PG-188	SG-292	FS-F-48
472LT-4	0.516	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
472LT-6	0.678	YS-B-19	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
472LT-8	0.804	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
472LT-10	0.939	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
472LT-12	1.093	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
472LT-16	1.394	YS-B-37	AS-B-27	AS-Y-27	-	HG-150	PG-188	SG-155	FS-F-24
482-4	0.528	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
482-6	0.685	YS-B-19	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
482-8	0.815	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
482-10	0.939	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
482-12	1.095	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
482-16	1.41	YS-B-37	AS-B-27	AS-Y-27	-	HG-150	PG-188	SG-155	FS-F-24
487-4	0.516	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
487-6	0.678	YS-B-19	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
487-8	0.804	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14

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487-10	0.939	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
487-12	1.093	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
487-16	1.49	YS-B-37	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
487-20	1.82	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
487-24	2.03	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
487-32	2.65	-	AS-B-47	-	PS-B-45	HG-350	PG-188	SG-292	FS-F-48
611HT-4	0.5	-	AS-B-11	AS-Y-11	-	HG-075	PG-050	-	FS-F-10
611HT-6	0.625	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	-	FS-F-11
611HT-8	0.781	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
611HT-10	0.907	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
611HT-12	1.032	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-119	-	FS-F-18
722-6	0.78	YS-B-19	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
722-8	0.89	YS-B-22	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
722-10	1.04	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-119	-	FS-F-18
722-12	1.21	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-138	SG-122	FS-F-20
722-16	1.5	YS-B-37	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
722-20	1.84	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-209	FS-F-30
722-24	2.07	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
722-32	2.59	-	AS-B-47	-	PS-B-39	HG-350	PG-188	SG-292	FS-F-48
722LT-6	0.782	YS-B-19	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
722LT-8	0.892	YS-B-22	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
722LT-10	1.04	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-119	-	FS-F-18
722LT-12	1.207	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-138	SG-122	FS-F-20
722LT-16	1.49	YS-B-37	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
722LT-20	1.82	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
722LT-24	2.06	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
774-12	1.207	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-138	SG-122	FS-F-20
774-16	1.5	YS-B-37	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
774-20	1.84	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-209	FS-F-30
774-24	2.07	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
774-32	2.59	-	AS-B-47	-	PS-B-39	HG-350	PG-188	SG-292	FS-F-48
777-6	0.66	YS-B-19	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	-	FS-F-12
777-8	0.81	YS-B-19	AS-B-15	AS-Y-15	PS-B-15	HG-100	PG-088	SG-097	FS-F-16
777-10	0.93	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-113	FS-F-18
777-12	1.12	YS-B-33	AS-B-15	AS-Y-15	PS-B-15	HG-100	PG-138	SG-122	FS-F-20
777TC-12	1.12	YS-B-33	AS-B-15	AS-Y-15	PS-B-15	HG-100	PG-138	SG-122	FS-F-20
777ST-12	1.12	YS-B-33	AS-B-15	AS-Y-15	PS-B-15	HG-100	PG-138	SG-122	FS-F-20
777-16	1.38	YS-B-37	AS-B-17	AS -Y-17	PS-B-17	HG-150	PG -188	SG-155	FS-F-24
777TC-16	1.38	YS-B-37	AS-B-17	AS -Y-17	PS-B-17	HG-150	PG -188	SG-155	FS-F-24
777ST-16	1.38	YS-B-37	AS-B-17	AS -Y-17	PS-B-17	HG-150	PG -188	SG-155	FS-F-24

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787-4	0.516	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
787-6	0.68	YS-B-19	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	SG-072	FS-F-12
787-8	0.83	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
787-10	0.94	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
787-12	1.1	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
787-16	1.4	YS-B-37	AS-B-27	AS-Y-27	-	HG-150	PG-188	SG-155	FS-F-24
787-20	1.77	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
787-24	2.08	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
787-32	2.66	-	AS-B-47	-	PS-B-45	HG-350	PG-188	SG-292	FS-F-48
792LT-16	1.52	YS-B-37	AS-B-33	AS-Y-33	PS-B-33	HG-200	PG-188	SG-155	FS-F-28
792LT-20	1.97	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-209	FS-F-38
792LT-24	2.22	-	-	-	PS-B-39	HG-350	PG-188	SG-232	FS-F-38
797-4	0.516	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-10
797-6	0.66	YS-B-19	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	-	FS-F-12
797-8	0.83	YS-B-22	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
797-10	0.94	YS-B-27	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
797-12	1.1	YS-B-33	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-113	FS-F-20
797-16	1.4	YS-B-37	AS-B-27	AS-Y-27	-	HG-150	PG-188	SG-155	FS-F-24
797-20	1.77	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
797-24	2.08	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
797-32	2.66	-	AS-B-47	-	PS-B-45	HG-350	PG-188	SG-292	FS-F-48
801-4	0.5	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-050	-	FS-F-10
801-6	0.625	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	-	FS-F-11
801-8	0.781	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
801-10	0.907	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
801-12	1.032	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-119	-	FS-F-18
801-16	1.281	-	AS-B-27	AS-Y-27	-	HG-150	PG-138	SG-131	FS-F-22
804-4	0.5	-	AS-B-11	AS-Y-11	-	HG-075	PG-050	-	FS-F-10
804-6	0.625	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	-	FS-F-11
804-8	0.781	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
804-10	0.907	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
811-12	1.18	-	AS-B-27	AS-Y-27	-	HG-125	PG-119	SG-122	FS-F-20
811-16	1.5	-	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
811-20	1.77	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
811-24	2.05	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
811-32	2.5	-	AS-B-47	-	PS-B-39	HG-350	PG-188	SG-292	FS-F-48
811-40	3	-	AS-B-58	-	-	HG-350	PG-188	-	FS-F-60
811HT-12	1.18	-	AS-B-19	AS-Y-19	-	HG-125	PG-119	SG-122	FS-F-20
811HT-16	1.5	-	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
811HT-20	1.77	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30

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811HT-24	2.05	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
811HT-32	2.5	-	AS-B-47	-	PS-B-39	HG-350	PG-188	SG-292	FS-F-48
811HT-40	3	-	AS-B-58	-	-	HG-350	PG-188	-	FS-F-60
821-4	0.5	-	AS-B-11	AS-Y-11	-	HG-075	PG-050	-	FS-F-10
821-6	0.625	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	-	FS-F-11
821-8	0.781	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
821-10	0.907	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
821-12	1.03	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-119	-	FS-F-18
821FR-4	0.5	X	X	X	X	X	X	-	FS-F-10
821FR-6	0.625	X	X	X	X	X	X	-	FS-F-11
821FR-8	0.781	X	X	X	X	X	X	SG-084	FS-F-14
821FR-12	1.032	X	X	X	X	X	X	-	FS-F-18
836-4	0.5	-	AS-B-11	AS-Y-11	-	HG-075	PG-050	-	FS-F-10
836-6	0.625	-	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-075	-	FS-F-11
836-8	0.781	-	AS-B-15	AS-Y-15	PS-B-15	HG-125	PG-088	SG-084	FS-F-14
836-10	0.907	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-16
836-12	1.032	-	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-119	-	FS-F-18
881-12	1.2	-	AS-B-27	AS-Y-27	-	HG-125	PG-138	SG-122	FS-F-20
881-16	1.49	-	AS-B-33	AS-Y-33	PS-B-33	HG-150	PG-188	SG-155	FS-F-28
881-20	1.78	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-182	FS-F-30
881-24	2.06	-	AS-B-37	AS-Y-37	PS-B-37	HG-350	PG-188	SG-209	FS-F-38
881-32	2.48	-	AS-B-47	-	PS-B-39	HG-350	PG-188	SG-292	FS-F-48
881-40	3	-	AS-B-58	-	-	HG-350	PG-188	-	FS-F-60
F42-8	0.969	YS-B-22	AS-B-17	AS-Y-17	PS-B-17	HG-125	PG-100	SG-097	FS-F-18
F42-12	1.264	YS-B-33	AS-B-27	AS-Y-27	-	HG-150	PG-138	SG-131	FS-F-22
F42-16	1.52	YS-B-37	AS-B-33	AS-Y-33	PS-B-33	HG-200	PG-188	SG-155	FS-F-28
F42-20	1.97	-	AS-B-35	AS-Y-35	PS-B-35	HG-200	PG-188	SG-209	FS-F-38
JK-4	0.59	YS-B-17	AS-B-13	AS-Y-13	PS-B-13	HG-075	PG-062	SG-060	FS-F-11
JK-6	0.75	YS-B-19	AS-B-15	AS-Y-15	PS-B-15	HG-075	PG-075	SG-084	FS-F-14
SS25UL-4	0.52	X	X	X	X	X	X	SG-060	FS-F-10
SS25UL-5	0.582	X	X	X	X	X	X	SG-060	FS-F-11
SS25UL-6	0.676	X	X	X	X	X	X	SG-072	FS-F-12
SS25UL-8	0.766	X	X	X	X	X	X	SG-084	FS-F-14
SS25UL-10	0.922	X	X	X	X	X	X	SG-097	FS-F-16
SS25UL-12	1.078	X	X	X	X	X	X	SG-113	FS-F-18

NOTES: "X" indicates there is no recommended sleeve because the sleeve supports combustion.
Sizes indicated are suggestions only and based on hose O.D. A larger size may be required for over fitting applications.
Suggestions indicated are for standard, ToughCover, and SuperTough cover options.

Hose Whip Restraint

The Hose Whip Restraint System is designed to prevent whipping of a pressurized hose in the event of the hose separating from its fitting.

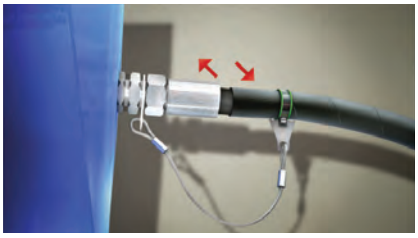
This system provides an additional level of safety and helps prevent damage to nearby equipment or injury to operators near the failed hose by limiting the whip or travel of the pressurized hose after it breaks free from its fitting.

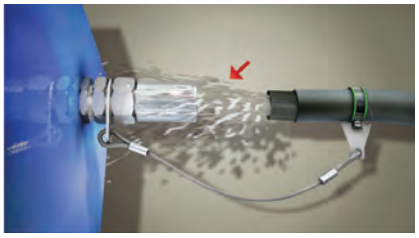
Serious damage or injury can occcur from whipping hoses, especially at higher pressures. The system is comprised of two parts – a hose collar and a cable assembly.

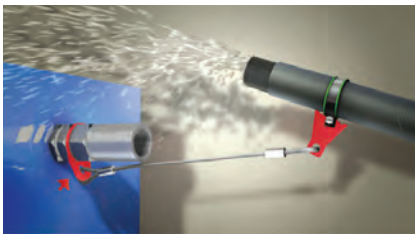
The hose collar (WRCxxxx) is selected based on the outside diameter of the hose, and the cable assembly is selected based on the type of hose connection.

Two types of cable assemblies are available – one for flange-type connections (WRFxxx), and the other for port adapters (WRAxxx).

The Hose Whip Restraint is not to be used in place of proper hose crimping procedures as outlined in Hose Products Division Catalog 4400. Exceeding the maximum operating pressure of the hose jeopardizes the proper operation of the Hose Whip Restraint System.







Step 1: Select a WRC part number based on the outside diameter of your hose.

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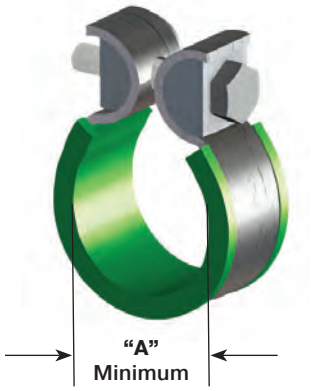
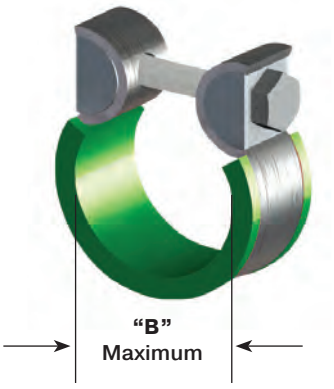
Hose Collars

Part Number	A		B		Hose Collar Bolt Size*
	inch	mm	inch	mm	
WRC1212	0.47	12,0	0.49	12,5	M6
WRC1313	0.51	13,0	0.53	13,5	M6
WRC1415	0.55	14,0	0.59	15,0	M6
WRC1718	0.67	17,0	0.71	18,0	M6
WRC1819	0.71	18,0	0.75	19,0	M6
WRC2021	0.79	20,0	0.83	21,0	M6
WRC2223	0.87	22,0	0.91	23,0	M6
WRC2425	0.95	24,0	0.98	25,0	M6
WRC2526	0.98	25,0	1.02	26,0	M6
WRC2728	1.06	27,0	1.10	28,0	M6
WRC2829	1.10	28,0	1.14	29,0	M6
WRC3031	1.18	30,0	1.22	31,0	M6
WRC3435	1.34	34,0	1.38	35,0	M6
WRC3637	1.42	36,0	1.46	37,0	M6
WRC3839	1.50	38,0	1.54	39,0	M6
WRC4243	1.65	42,0	1.69	43,0	M6
WRC4445	1.73	44,0	1.77	45,0	M6
WRC4547	1.77	45,0	1.85	47,0	M8
WRC4850	1.89	48,0	1.97	50,0	M8
WRC5153	2.01	51,0	2.09	53,0	M8
WRC5456	2.13	54,0	2.21	56,0	M8
WRC6365	2.48	63,0	2.56	65,0	M8
WRC6971	2.72	69,0	2.78	71,0	M8





*Bolt size on collar must match the WRA or WRF bolt size.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Step 2: Select either a WRA or a WRF cable assembly based on your connection type.

Cable assembly for hose fittings or adapters

Part Number	Maximum Working Pressure	Hole I.D. C		Cable Length D		Grip Plate Bolt Size*
	psi	inch	mm	inch	mm	
WRA115	6525	0.45	11,5	11.81	300	M6
WRA132	6525	0.52	13,2	11.81	300	M6
WRA145	6525	0.57	14,5	11.81	300	M6
WRA148	6525	0.58	14,8	11.81	300	M6
WRA170	6453	0.67	17,0	11.81	300	M6
WRA185	6090	0.73	18,5	11.81	300	M6
WRA195	6090	0.77	19,5	11.81	300	M6
WRA205	6090	0.81	20,5	11.81	300	M6
WRA225	6090	0.89	22,5	11.81	300	M6
WRA228	6090	0.90	22,8	11.81	300	M6
WRA245	6090	0.96	24,5	11.81	300	M6
WRA265	6090	1.04	26,5	11.81	300	M6
WRA275	6090	1.08	27,5	11.81	300	M6
WRA305	6090	1.20	30,5	11.81	300	M6
WRA340S	6090	1.34	34,0	17.72	450	M6
WRA340JIC	6090	1.34	34,0	17.72	450	M8
WRA365	6090	1.44	36,5	17.72	450	M8
WRA415S	6090	1.63	41,5	17.72	450	M6
WRA415	6090	1.63	41,5	17.72	450	M8
WRA425	6090	1.67	42,5	17.72	450	M8
WRA455	6090	1.79	45,5	17.72	450	M8
WRA480S	6090	1.89	48,0	17.72	450	M6
WRA480	6090	1.89	48,0	17.72	450	M8
WRA490	6090	1.93	49,0	17.72	450	M8
WRA525	5583	2.07	52,5	17.72	450	M8
WRA600	5075	2.36	60,0	17.72	450	M8
WRA640	5075	2.52	64,0	17.72	450	M8

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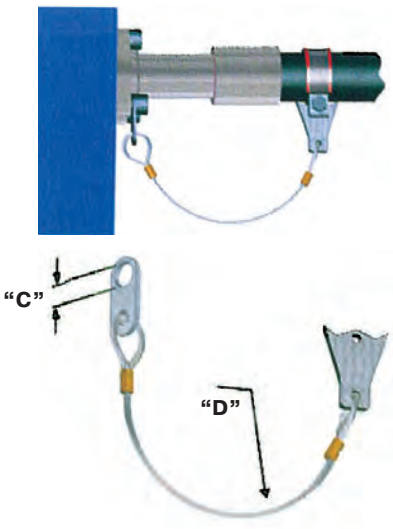
Cable assembly for Code 61/Code 62 flanges

Part Number	Maximum Working Pressure	Hole I.D. C		Cable Length D		Grip Plate Bolt Size*
	psi	inch	mm	inch	mm	
WRF085	6018	0.33	8,5	11.81	300	M6
WRF105	6090	0.41	10,5	17.72	450	M8
WRF125	6090	0.49	12,5	17.72	450	M8
WRF145	6090	0.57	14,5	17.72	450	M8
WRF165	6090	0.65	16,5	17.72	450	M8
WRF205	5075	0.81	20,5	17.72	450	M8



***Bolt size on collar must match the WTA or WRF bolt size.**

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The Hose Whip Restraint System has been tested to the operating pressures of the hoses listed in Hose Products Division Catalog 4400. The Hose Whip Restraint is not designed to increase the hose rated pressure or to add incremental pressure rating to the hose / fitting combination. Your hose / fitting / whip restraint system is rated to the pressure of the lowest rated component of the system.

Hose Whip Restraint Selection Guide

Collar

Part Number	Min. Opening A		Max. Opening B		201, 221FR, 206, 225, 244, 266	213, 285, 293	302, 304, 421WC	187/TC/ST 422, 424, 436, 387/TC/ST 471TC/ST, 482TC/ST, 472TC/ST 487/TC/ST	601	722/TC/ST, 774	F42	801, 804, 821, 821FR, 836	811, 881, 811HT	787/TC/ST 797/TC/ST
	inch	mm	inch	mm										
WRC1212	0.47	12,0	0.49	12,5		-4			-3			-4		
WRC1313	0.51	13,0	0.53	13,5	-4		-3	-4						-4
WRC1415	0.55	14,0	0.59	15,0	-5	-5, -6	-4	-5	-4			-5, -6		
WRC1718	0.67	17,0	0.71	18,0	-6			-6	-5					-6
WRC1819	0.71	18,0	0.75	19,0	-8	-8	-6		-6			-8		
WRC2021	0.79	20,0	0.83	21,0				-8		-6				-8
WRC2223	0.87	22,0	0.91	23,0	-10	-10	-8		-8	-8		-10		-10
WRC2425	0.95	24,0	0.98	25,0		-12		-10			-8			
WRC2526	0.98	25,0	1.02	26,0			-10		-10			-12		
WRC2728	1.06	27,0	1.10	28,0	-12			-12		-10				-12
WRC2829	1.10	28,0	1.14	29,0			-12							
WRC3031	1.18	30,0	1.22	31,0	-16	-16			-12	-12	-12	-16	-12	
WRC3435	1.34	34,0	1.38	35,0				-16						-16
WRC3637	1.42	36,0	1.46	37,0		-20			-16	-16			-16	
WRC3839	1.50	38,0	1.54	39,0	-20		-16				-16			
WRC4243	1.65	42,0	1.69	43,0										
WRC4445	1.73	44,0	1.77	45,0	-24	-24			-20				-20	
WRC4547	1.77	45,0	1.85	47,0			-20	-20		-20				-20
WRC4850	1.89	48,0	1.97	50,0				-24			-20			
WRC5153	2.01	51,0	2.09	53,0						-24			-24	-24
WRC5456	2.13	54,0	2.21	56,0	-32	-32	-24							
WRC6365	2.48	63,0	2.56	65,0				-32		-32			-32	
WRC6971	2.72	69,0	2.80	71,0										-32

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Hose Whip Restraint Selection Guide

Adapter

Part Number	A		JIC 37° Fittings 103XX, 106XX, 137XX, 1L7XX, 139XX, 1L9XX, 141XX, 14VXX Port End	Seal Lok (O-Ring Face Seal) 1JOXX, 1JBXX, 1JCXX, 1JSXX, 1J6XX, 1J7XX, 1J9XX, 1J5XX, 1J1XX Port End	NPTF / NPSM 101XX, 113XX, 11LXX, 102XX, 1S2XX Port End	BSPP / BSP 1D9XX, 192XX, 1B1XX, 1B2XX, 1B4XX, 1B5XX, 1FUXX, 1UTXX, 1GUXX Port End
	inch	mm				
WRA115	0.45	11,5	-4			
WRA132	0.52	13,2	-5			
WRA145	0.57	14,5		-4	-4	-4
WRA148	0.58	14,8	-6			
WRA170	0.67	17,0				-6
WRA185	0.73	18,5		-6	-6	
WRA195	0.77	19,5				
WRA205	0.81	20,5	-8			
WRA225	0.89	22,5		-8	-8	-8
WRA228	0.90	22,8	-10			
WRA245	0.96	24,5				-10
WRA265	1.04	26,5		-10		
WRA275	1.08	27,5	-12			
WRA305	1.20	30,5	-14	-12	-12	-12
WRA340S	1.34	34,0	-16		-16	-16
WRA340JIC	1.34	34,0	-16			
WRA365	1.44	36,5		-16		
WRA415S	1.63	41,5	-20			
WRA415	1.63	41,5	-20			
WRA425	1.67	42,5			-20	-20
WRA455	1.79	45,5		-20		
WRA480S	1.89	48,0	-24			
WRA480	1.89	48,0	-24			
WRA490	1.93	49,0			-24	-24
WRA525	2.07	52,5		-24		
WRA600	2.36	60,0				
WRA640	2.52	64,0	-32			

Contact HPD for other style fittings.

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Flange

Part Number	A		5050HK	5151HK	HFHFHK	8FHFHK	M1M1HK	M2M2HK	FFK61	FFK62
	inch	mm								
WRF085	0.33	8,5		-8						
WRF105	0.41	10,5		-12, -16	-12	-12	-8, -12, -16, -20	-8, -12	-12, -16	-12
WRF125	0.49	12,5	-20	-20	-16	-16	-24, -32, -40	-16, -20	-20	-16
WRF145	0.57	14,5	-24, -32	-24, -32, -40	-20				-24, -32	-20
WRF165	0.65	16,5		-48	-24			-24		-24
WRF205	0.81	20,5			-32			-32		-32

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CL Clamp

Vinyl coated steel clamps provide hose support where long lengths are used. Provides neater installation of hose lines, minimizes hose chafing and prevents damage to hose.

Material: CR Steel with Zinc Plating

Coating: Black Vinyl Plastisol - 0,8 mm (0.03 inch) thick.

Temperature Range: -40°C to +107°C (-40°F to +225°F).

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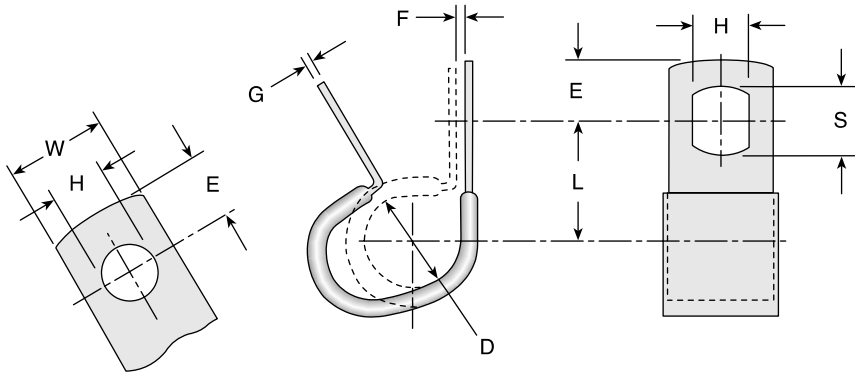
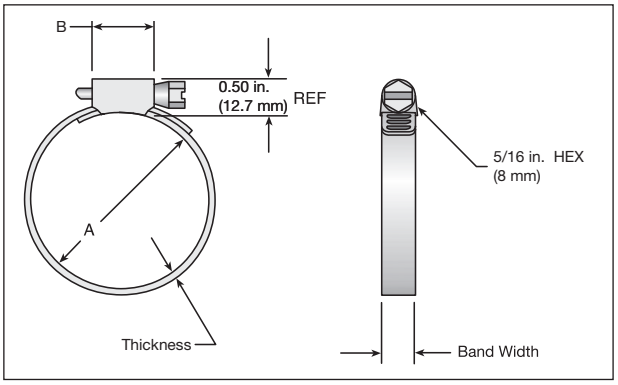


Part Number	D		H		L		W		E		F		G		S	
	±0,8 (mm)	±0.031 (inch)	±0,1 (mm)	±0.005 (inch)	±0,8 (mm)	±0.031 (inch)	±0,25 (mm)	±0.01 (inch)	±0,4 (mm)	±0.015 (inch)	±0,8 (mm)	±0.031 (inch)	±0,1 (mm)	±0.004 (inch)	±0,5 (mm)	±0.020 (inch)
CL-6	7,90	0.312	10,30	0.406	17,45	0.687	19,05	0.750	11,10	0.437	0,80	0.031	0,80	0.032	12,70	0.500
CL-7	9,50	0.375	10,30	0.406	18,25	0.718	19,05	0.750	11,10	0.437	1,55	0.062	0,80	0.032	12,70	0.500
CL-9	12,70	0.500	10,30	0.406	19,85	0.781	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-10	14,25	0.562	10,30	0.406	20,60	0.812	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-11	15,90	0.625	10,30	0.406	21,40	0.843	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-12	17,45	0.687	10,30	0.406	22,20	0.875	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-13	19,05	0.750	10,30	0.406	23,00	0.906	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-14	20,60	0.812	10,30	0.406	23,80	0.937	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-16	23,80	0.937	10,30	0.406	25,40	1.000	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-17	25,40	1.000	10,30	0.406	26,20	1.031	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-18	26,95	1.062	10,30	0.406	26,95	1.062	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-19	28,60	1.125	10,30	0.406	27,75	1.093	19,05	0.750	11,10	0.437	1,55	0.062	1,20	0.048	12,70	0.500
CL-20	30,20	1.188	13,50	0.531	31,75	1.250	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-21	31,75	1.250	13,50	0.531	32,55	1.281	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-23	34,90	1.375	13,50	0.531	34,10	1.343	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-24	36,50	1.437	13,50	0.531	34,90	1.375	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-25	38,10	1.500	13,50	0.531	35,70	1.406	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-26	39,65	1.562	13,50	0.531	36,50	1.437	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-29	44,45	1.750	13,50	0.531	38,90	1.531	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-31	47,65	1.875	13,50	0.531	40,45	1.593	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-33	50,80	2.000	13,50	0.531	42,85	1.687	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-36	55,55	2.187	13,50	0.531	46,00	1.812	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-37	57,15	2.250	13,50	0.531	46,00	1.812	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625
CL-43	66,65	2.625	13,50	0.531	58,70	2.312	25,40	1.000	14,25	0.562	1,55	0.062	1,20	0.048	15,90	0.625

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

HC, 88HC-H and 88DB Clamp

The Parker HC Clamp is a stainless steel worm gear clamp designed for low pressure industrial hose applications.



view on web page

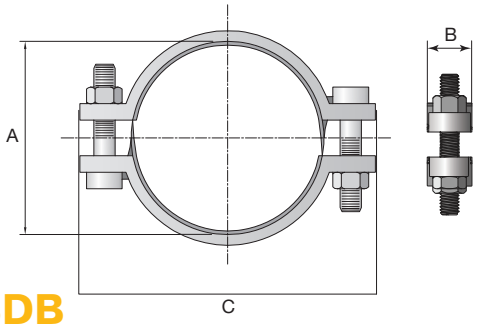
HC Hose Clamp Table

SAE J1508 Type F

Part Number	Size (SAE)	"A" Clamp Diameter Minimum mm	"A" Clamp Diameter Minimum inch	"A" Clamp Diameter Maximum mm	"A" Clamp Diameter Maximum inch	"B" Maximum mm	"B" Maximum inch
HC-6	-8	13	0.50	23	0.91	19,1	0.75
HC-8	-10	14	0.56	27	1.06	19,1	0.75
HC-10	-12	18	0.69	32	1.25	19,1	0.75
88HC-12	-16	21	0.81	38	1.50	19,1	0.75
88HC-16	-20	21	0.81	44	1.75	19,1	0.75
88HC-20	-24	27	1.06	51	2.00	19,1	0.75
88HC-24	-28	33	1.31	57	2.25	19,1	0.75
88HC-32	-36	46	1.81	70	2.75	19,1	0.75

Suggested installation torque: 35 in-lbs (4 Nm)
Material: Band & Housing: 201 SS
Screw: 410 SS
Band Width: 0.562 in.
Band Thickness: 0.022 in (0.559 mm)

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



88HC-H

Series Hose Clamp (High Torque Wormgear) SAE J1508 Type HD

Part Number	Size (SAE)	"A" Clamp Diameter Minimum mm	"A" Clamp Diameter Minimum inch	"A" Clamp Diameter Maximum mm	"A" Clamp Diameter Maximum inch	"B" Maximum mm	"B" Maximum inch
88HC-16H	175	25	1.00	44	1.750	26,9	1.06
88HC-20H	212	32	1.25	54	2.125	26,9	1.06
88HC-32H	262	44	1.75	67	2.625	26,9	1.06
88HC-40H	312	57	2.25	80	3.625	26,9	1.06
88HC-48H	362	70	2.75	92	3.625	26,9	1.06

Use for 88 Series Fittings
Suggested installation torque: 75 to 90 in-lbs (8.5 to 10 Nm)
Note: See 88 Series Assembly Instructions for proper 88HC-H clamp attachment.
Material: Band & Housing: 304 SS
Screw: 410 SS
Band Width: 0.625 in.
Band Thickness: 0.028 in (0.711 mm)

88DB

Series Heavy Duty Hose Clamp (Double Bolt Hose Clamp)

Part Number	"A" I.D. inch	"B" Width inch	"C" Width inch
88DB-12	1.25	0.88	1.75
88DB-16	1.40	0.75	2.00
88DB-20	1.75	0.96	2.35
88DB-24	2.00	1.00	2.66
88DB-32	2.40	1.03	3.12

view on web page

Use for 88 Series Fittings
Material: Iron

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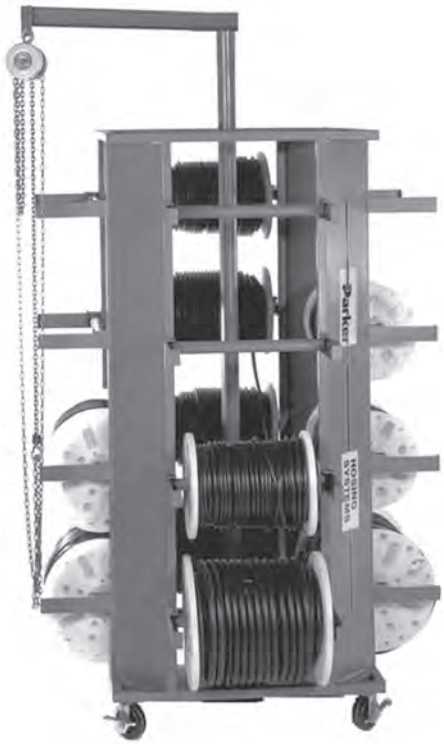
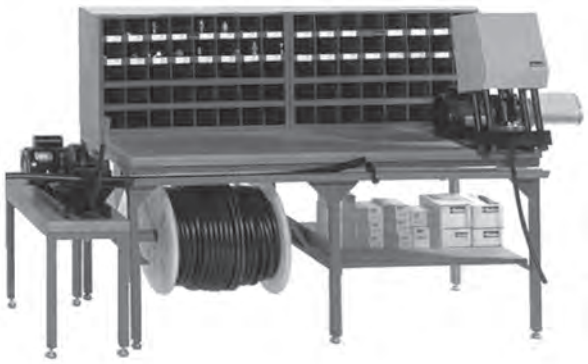
HPD Hose Assembly Workstations



Hose Products Division has set up an agreement to enable our customers to purchase directly from our vendor, Safety Step.

Safety Step's contact information is:	**Safety Step 540-362-9636 www.safetystep.net**



The complete on-site complete hose assembly workstation design (above) includes:

- TH7-5-C—6' table with 1 hose reel and 1 bottom shelf
- TH7-6—16 hose reel system, with rotating base
- TH7-7—15" wide table set up for Parker 239 or 339 Cut-Off Saw

Specifications: HoseFab Table (heavy duty)

- Laminated wood table top
- 1-1/2" square tubing structure
- Gussetted corner braces
- 6-leg design
- All legs have adjustable feet
- Hose reel/shelf combinations
- 40B-Cabinet or 72B-Cabinet for fitting storage
- **Optional:** Hose trough for measurement of hose
  - Calibrated to line up to Saw Table
  - Adjustable stop for standard length cuts
  - Built-in tape measure
- (2) 40B-Cabinet 40 openings - 4·1/2" x 4·1/2" x 12" in size
- TH7-6-C—Optional overhead crane
- TH7-5-HT—Optional 6' measured hose trough with adjustable hose stop

Specifications: Rotary Reel Rack (TH7-6)

- 16 Hose reel capacity
- Compact design
- Rotates for 1 man use
- Center post bolts to floor in 4 places
- Optional: Overhead crane

Specifications: Saw Table (TH7-7)

- Calibrated to line up to Hose trough
- Adjustable feet
- Mounts to 6-foot bench

Specifications: 3 or 4 Reel Rack

- Free standing 3 reel rack (TH7-8)
- Bolts to floor
- Optional: 4th reel capacity with wall mounts (TH7-8-F)

Pictured left is a complete on-site hose assembly workstation, the Parker Kart:

The Parker Kart, TH7-4, is a portable all-in-one unit designed to hold a Minikrimp, Karrykrimp, Karrykrimp 2, or Parkrimp 1; a 332T-115V Cut-off Saw; 4 reels of hose; and has a 40 bin cabinet with 3 drawers for tools. The TH7-4 can be customized to fit your specific hose assembly needs. Contact Parker HPD or your Parker Hose distributor for details.

Note: Part number TH7-4 does not include hose, fittings or equipment.

See Safety Step contact information at the top of this page

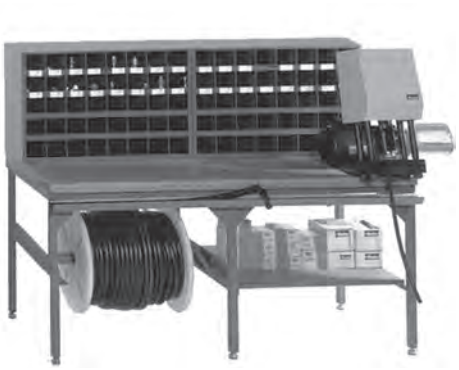
Note: Part number and specifications of components for both workstations are listed on the following pages.

HoseFab Table

Heavy duty constructed table for mounting Minikrimp, Karrykrimp, Karrykrimp 2, or Parkrimp 1. HoseFab Table is available in 3 versions to meet your requirements. Options include two 40B-Cabinets or 72B-Cabinets for fitting storage.

Part Number	Description
TH7-5-R	6' table with 2 hose reels
TH7-5-S	6' table with 2 bottom shelves
TH7-5-C	6' table with 1 hose reel and 1 bottom shelf
TH7-5-HT	Optional 6' measured hose trough with adjustable hose stop
40B-Cabinet	40 openings - 4·1/2" x 4·1/2" x 12" in size
72B-Cabinet	72 openings - 4·1/2" x 4·1/2" x 12" in size

Table measurements:
Height - 31-3/4"
Width - 29"
Length - 72"



See Safety Step contact information on page 312

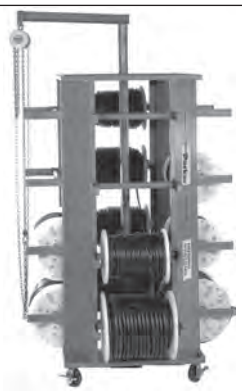
Rotary Reel Rack

16 Hose reel capacity that fits in a compact area. Supplied with heavy duty casters which allow for ease of turning, even when fully loaded. Optional overhead crane available.

Part Number	Description
TH7-6	16 hose reel system, with rotating base
TH7-6-C	Optional overhead crane

Rack measurements:
Height - 104" (120" with optional overhead crane)
Width - 67"
Length - 67"

view on web page



See Safety Step contact information on page 312

Saw Table

The Saw Table, specially designed for Parker 239 or 339 Hose Cut-Off Saw, attaches directly to the HoseFab Table.

Part Number	Description
TH7-7	15" wide table set up for Parker 239 or 339 Cut-Off Saw

Table measurements:
Height - 18"
Width - 28"
Length - 14"

See Safety Step contact information on page 312

3/4 Reel Rack

Compact in its design, the standard version will hold 3 reels of hose. Optional 4th reel capacity designed with wall anchor mounts.

Part Number	Description
TH7-8	Upright 3 hose reel rack
TH7-8-F	Optional extension with wall anchor for 4th reel

Rack measurements:
Height - 59" (82·1/2" with 4th reel option)
Width - 27·3/4"
Length - 27·1/2"

view on web page

See Safety Step contact information on page 312

See Safety Step contact information on page 312

Parker Kart
TH7-4

Parker Kart organizes and stores all your necessary Parker hoses, fittings, power and hand tools - everything you need to make fast hose assemblies on site. As a valued addition to any facility, Parker Kart will save on downtime and labor costs, as well as eliminate errors in cutting and fitting attachment. With Parker Kart, you'll always have the materials you need, right when and where you need them.

- Easy one-man movement
- Eight-inch urethane casters with brakes
- Forklift carry tubes
- Electric receptacle with cord
- Fitting bins and drawers
- Large tool drawer
- Four hose reel holders
- Choice of Parker crimping equipment
- Optional accessories available

Parker Kart can be customized to fit specific hose assembly needs. Parker Kart does not include hose, fittings or equipment.

See Safety Step contact information on page 312

Fitting Stock Bins
72B-Cabinet

36" wide, 43" high, 12" deep, with 72 openings each 4-1/2" x 4-1/2" x 12", heavy duty steel, all welded construction. Product bin labels are available.

view on web page

Hose Stock Bins
HR3-Hose-Bin

Rugged gray, powder coated, metal cabinet with 3 openings for stocking coils of Parker hose 24 3/16" wide, 21 5/8" high, 23 15/16" deep.

view on web page

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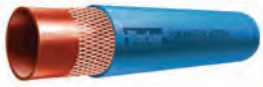
Air & Multipurpose Hose	7092 323	7093 325	7057 327
7031 326	7096 327	7322 328	7323 328
7094 329	7095 329	7212 331	7107 332
7102 333	SW360 334	7251 335	7337 338
7337M 339	***Chemical Hose***	7373T 340	SWC693 341
7374 342	7108 343	SWC693B 344	***Coolant & Engine Hose***
7395 345	7390 347	7219 348	7399 350
389 351	397 352	395 353	7181 354
7186 355	6722 356	6723 357	6724 358 
6750 359	6823 360	6621 361	7116M 362
SW569 363	SS269 365	7165 366	629 367

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650 368	***Food and Beverage Hose***	7640 369	7640P 370
7630 371	7630P 372	7630PL 373	7680 374
7685 375	***Fuel Dispenser Hose***	7280 376	7124 377
7114 378	7175 379	***LPG/Propane Hose & Assemblies***	7132 380
7132XTC 382	7232 384	7231 386	7122 387
SS25UL 388	***Material Handling Hose***	7204 389	SW387 390
7363 391	8341 392	8341HD 393	SS135 394
SS247 395	SW409 396	***Oil Field Hose***	7213E 397
7301 398	7311N 399	7311NXT 399	7331 400
Petroleum Transport Hose	7216E 401	SWC609 402	SWC609R 402
SWC325 403	7705 404	***PVC Hose and Tubing***	100 405

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GPH 407	125 409	126 409	7541 411
7542 412	***Steam Hose***	7285 413	7263C 414
7264C 415	7264 416	7263E 417	7288 418
7200 419	***Water Hose & Assembly***	7392E 420	7268E 421
7258 422	7258BK 423	7055 424	

HOSE OVERVIEW CHART

	Hose Size	Hose Construction	Pressure PSI -3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	4"	5"	6"	>6"	Standard Temp. Range °F	Standards	Page
Air / Multipurpose	7092		200	200-300	200-300	200-300	200-300	200-300	200-300	200-300	200	200	200							–40/+212		323
	7093		200	200-300	200-300	200-300	200-300	200-300	200-300	200-300	200	200	200							–40/+212		325
	7057						250		300											–40/+212		327
	7031								300+											–40/+212	ARPM IP-7	326
	7096								300											–40/+212		327
	7322										200	200	200							–40/+212		328
	7323										200	200	200							Air -20 / -158 Other -20/+212		328
	7094			200-300	300	200-300	200-300	300	200-300	200-300	200	200								Air -20 / -158 Other -20/+212	Electrically non-conductive*	329
	7095			200-300	300	200-300	200-300	300	200-300	200-300	200	200								Air -20 / -158 Other -20/+212	Electrically non-conductive*	329
	7212			300		300	300	300	300											Air -20 / -158 Other -20/+212	MSHA	331
	7107			500		500	500		500	500	500	500	500							Air -40 / -158 Other -40/+212	Electrically non-conductive*, MSHA	332
	7102					300	300		300	300	300	300								Air -70 / -158 Other -70/+212		333
	SW360											200	200		200	125		100		–40/+350		334
	7251											600	600	500	500	400				–20/+212	MSHA	335
	7337**											N/A	N/A	N/A	N/A	N/A				–30/+180	MSHA	338
	7337M**						N/A	N/A	N/A	N/A	N/A									–30/+180	MSHA	339
Chemical	7373T								200	200	200	200	200		200	200				–40/+180		340
	SWC693									250	250	250	250		200	200				–40/+180		341
	7374									600	400	400	400							–40/+180		342
	7108			500		500														0/ +200		343
	SWC693B									250	250	250	250		200	200				-40/+180		344

(*min. resistance of one megaohm p/in. at 1000 volts DC)

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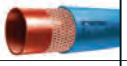
HOSE OVERVIEW CHART

	Hose Size	Hose Construction	Pressure PSI -3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	4"	5"	6"	>6"	Standard Temp. Range °F	Standards	Page
Coolant & Engine Hose	7395**						75	75	75	75	75	75	75	75	75	75				-50/+257	SAE J20R2-D1 performance	345
	7390										150	150	150		150					-40F° to +212°F		347
	7219**						75	75	75	75	75*	75*	75*	75*	75*	75*				-30/+212*/+257		348
	7399**						150	150	150	150										-40/+257		350
	389		100	100	100	100	100	100	100											-40/+257	SAEJ30R7 & R14 T2	351
	397		100	100	100	100	100	35	35													352
	395		75	50	50	50	35															353
	7181			65	65	65	65	65	50	45										-40/+257	SAEJ20R3 D-2	354
	7186						125	90	70											-40/+212		355
	6722			83	83	83	83	83	83	83										-65/+350	SAEJ20R3 Class A	356
	6723					83	83	83	83	83										-65/+350		357
	6724			83		83														-65/+500		358
	6750						142		108	100	92	83	67	50	29	17	17			-65/+350		359
	6823														27	27				-65/+500		360
	6621									225	225		225							-76/+392	SAE J20R2 Class A and TMC	31
	7116M					150	150		150	150										-40/+212		362
	SW569**					75	75	75		75	75	50	50	50	40	40				-20/+212	ABYC H-24, NMMA, SAE J1527 A1/A2, SAE J1942 Code: F / VW / NVW, SAE J2006 R2, SAE J20R2 B, SAE J20R4 B, SAE J20R5 B, SAE J30R5, ISO 7840:2004 A2, ISO 8469 B1,USCG	363
	SS269**									50	50	50	50	25	25	25	25			-40/+200	ABYC, USCG/SAE J2006R1	365
	7165			100	100	100	100	75												-20/+212	ABYC, CARB, CE, EPA, ISO 7840 A1, NMMA, SAE J1527, A1-15, USCG A1	366
	629		150	150																-40/+212		367
	650		400	400	400	400	350	300												-40/+257		368

**See product page for additional sizes

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HOSE OVERVIEW CHART

	Hose Size	Hose Construction	Pressure PSI -3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	4"	5"	6"	>6"	Standard Temp. Range °F	Standards	Page
Food and Beverage Hose	7640										150		150	150		150				-13/+176	FDA, BFR,DM, 3A, MHLW, REACH, CE, GMP	369
	7640P										150		150	150		150				-13/+176	FDA, BFR,DM, 3A, MHLW, REACH, CE, GMP	370
	7630										250		250	250	250					-40/+248	FDA, CE, DM, 3A, MHLW, REACH,	371
	7630P										250		250	250	250					-40/+248	FDA, CE, DM, 3A, MHLW, REACH, GMP	372
	7630PL												150	150	150	150				-13/+248	FDA, CE, DM, 3A, MHLW, REACH, GMP	373
	7680						300			300	300									-40/+212	N/A	374
	7685						300			300	300									-40/+212	N/A	375
Fuel Dispenser Hose	7280							50	50	50										-40/+180	UL330/ULC; NFPA 30A; UL30N4 (factory assemblies)	376
	7124							50	50	50										-40/+180	UL330/ULC; NFPA 30A; UL30N4 (factory assemblies)	377
	7114							50	50	50										-40/+180	UL330/ULC; NFPA 30A; UL30N4 (factory assemblies)	378
	7175								50	50										-40/+180		379
LPG/Propane Hose & Assemblies	7132			350		350	350		350	350										-40/+180*		380
	7132XTC									350										-65/+180*	UL21; CSA 8.1 Type I; optional DOT factory hose assembly testing and marking available for sizes smaller than 3/4"	382
	7232										350	350	350							-40/+180*	UL21; CSA 8.1 Type I; optional DOT factory hose assembly testing and marking available	384
	7231														350					-22/+158*	ISO 2928-1986 (E)	386
	7122					125														-20/+160		387
	SS25UL				350	350	350	350												-40/+180*	UL21	388

**See product page for additional sizes

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HOSE OVERVIEW CHART

	Hose Size	Hose Construction	Pressure PSI -3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	4"	5"	6"	>6"	Standard Temp. Range °F	Standards	Page
Material Handling	7204								1000	1000										Air -20/+158; Steam -20/+368 (saturated steam to 150 psi max); Other -20/+300		389
	SW387											150	150	150	150	150				-40/+350		390
	7363											100		100	100	100	100			-40/+160		391
	8341										75	75		75	75		75	75		-40/+180		392
	8341HD																	75				393
	SS135**														100	100	100			-40/+180		394
	SS247**														100	100	100	100		-40/+180		395
	SW409											200		175	150	100	100			-40/+180		396
Oil Field	7213E											150	150	150	150	150				-22/+185		397
	7301											2250								-40/+275		398
	7311N											400	400		400	400		400		-40/+200		399
	7311NXT														400	400				-40/+200		399
	7331/ 7331XT †7331XT only												400		400	400		400		-40/+200		400
Petroleum Transport Hose	7216E											150	150	150	150	150				-22/+185		401
	SWC609/ SCW609R †SWC609 only										250	250	250	200	200	150		150†	150† (8")	-40/+200		402
	SWC325											150	150	150	150	150		125		-67/+180		403
	7705									200	200	200	200	200	200	200				-20/+180		404

**See product page for additional sizes

* (working pressures are at +68, higher temps reduce the available working pressure)

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HOSE OVERVIEW CHART

	Hose Size	Hose Construction	Pressure PSI																	Standard Temp. Range °F	Standards	Page
			-3	–4	–5	–6	–8	–10	–12	–16	–20	–24	–32	–40	–48	4"	5"	6"	>6"			
PVC Hose and Tubing	100		55-60	55-60	50-55	45-55	30-45	25-45	35	25-30												405
	GPH		300	300	300	300	300	300	300	250										–15/+150*	Electrically non-conductive**	407
	125		250	250	250	225	200	200	150	125	100	100	75							–25/+150*	FDA; EU	409
	126			350	275	250	250		200	150	125	100								–25/+150*	FDA; EU	409
	7541											70	70	60	60	60		45	45 (8")	–5/+170*		411
	7542											150	150	150	150	140		100	80 (8")	–5/+170*	MSHA	412
Steam Hose	7285						261		261	261										-40/+406 saturated steam; +450 super-heated steam	ISO 6134 Type2	413
	7263C						261			261										-40/+406 saturated steam; +450 super-heated steam	ISO 6134 Type2	414
	7264C								261											-40/+406 saturated steam; +450 super-heated steam	ISO 6134 Type2	415
	7264						261		261	261	261	261	261							-40/+406 saturated steam; +450 super-heated steam	ISO 6134 Type2	416
	7263E								261											-40/+406 saturated steam; +450 super-heated steam	ISO 6134 Type2	417
	7288						261		261											-40/+406 saturated steam; +450 super-heated steam	ISO 6134 Type2	418
	7200								350	350										-20/+300;+350 intermittent		419
Water Hose & Assembly	7392E											150	150	150	150	150		150		-40/+180		420
	7268E								1000	1000	1000	1000	1000							-20/+212	MSHA	421
	7258			3000		3000	2500													–40/+250		422
	7258BK			3000		3000	2500													–40/+250		423
	7055							100	100											–40/+180		424

**See product page for additional sizes

* (working pressures are at +68, higher temps reduce the available working pressure)

GST® II
General Service Hose
Series 7031(R) (Green), Series 7057 (Blue), Series 7092 (Red), Series 7093 (Black), and Series 7096 (Yellow)

view on web page

GST® II hose is a versatile general purpose hose designed to handle air, mild chemicals and water. The hose construction incorporates a tube that is compatible with light oil mists found in air tool lubricating systems, and the multiple plies of textile reinforcement provide flexibility. The cover is resistant to abrasion, heat and ozone, and is available in multiple standard colors for color-coded identification.

NOTE: Do not use in welding hose and/or welding gas delivery applications.

Other cover colors available:

7031(R) (Green)
7057 (Blue)
7096 (Yellow)
7093 (Black)

Series 7092 (Red)

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
-25200	1/4	6.4	2	0.5	12.7	0.09	0.13	3	64	200	14	HY	800	Reel
-25300	1/4	6.4	2	0.6	14.0	0.12	0.18	3	84	300	21	HY	800	Reel
-31200	5/16	7.9	2	0.6	15.1	0.12	0.18	3	84	200	14		Reel	Reel
-31300	5/16	7.9	2	0.6	15.9	0.14	0.21	4	89	300	21	HY	750	Reel
-38200	3/8	9.5	2	0.7	16.7	0.14	0.21	4	89	200	14	HY	700	Reel
-3820050	3/8	9.5	2	0.7	16.7	0.14	0.21	4	89	200	14	HY	50	Carton

Factory Assemblies: Air, Service Station Air, Jackhammer and Sledgehammer hose assemblies are available from stock in popular configurations and appear at the end of this section.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

UNDER NO CIRCUMSTANCES IS THE GSTII FAMILY OF HOSES OR ANY OTHER EPDM HOSE TO BE USED IN A WELDING HOSE AND OR WELDING GAS DELIVERY APPLICATION UNLESS THE PARKER CATALOG, LITERATURE, AND PRODUCT MARKING EXPLICITLY STATES THAT THE PRODUCT IS APPROVED FOR WELDING HOSE FUEL GAS APPLICATIONS.

Tube: Black EPDM; ARPM Class C oil resistance
Reinforcement: Multiple textile plies
Cover: Black, blue, green, red, yellow EPDM; smooth finish
Temp. Range: -40°F to +212°F (-40°C to +100°C)
Brand Method: White ink on black, blue, green, red hose; black ink on yellow hose
Brand Example: PARKER (SERIES) GST® II (ID) XXX PSI MAX WP
Design Factor: 4:1

Industry Standards: None Applicable
Applications:
- Air (including oil mist), mild chemicals, water
- Agriculture, construction, general industrial

Vacuum: Not recommended
Compare to: Boston Bosflex A/W; ContiTech Frontier General Purpose; Gates Adapta Flex; Thermoid Valuflex GS

(Continued on the following page)

⚠WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Series 7031(R), Series 7057, Series 7092, Series 7093, and Series 7096 – GST® II General Service Air & Water Hose *(Continued)*

Series 7092 (Red)

# Part Number 7092	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
-38300	3/8	9.5	2	0.7	17.5	0.16	0.24	4	102	300	21	HY	700	Reel
-3830050												HY	50	Carton
-50200	1/2	12.7	2	0.8	20.7	0.20	0.30	5	114	200	14	HY	550	Reel
-5020050	1/2	12.7	2	0.8	20.7	0.21	0.31	5	114	200	14	HY	50	Carton
-50250	1/2	12.7	2	0.8	21.4	0.22	0.33	5	114	250	17	HY	550	Reel
-50304	1/2	12.7	4	0.9	22.2	0.24	0.36	5	127	300	21	HY	500	Reel
-5030450												HY	50	Carton
-63200	5/8	15.9	2	1.0	24.6	0.24	0.36	6	140	200	14	HY	450	Reel
-6320050												HY	50	Carton
-63304	5/8	15.9	4	1.1	27.0	0.35	0.52	6	140	300	21	HY	450	Reel
-75200	3/4	19.1	2	1.1	28.2	0.32	0.48	6	152	200	14	HY	400	Reel
-7520050												HY	50	Carton
-75254	3/4	19.1	4	1.2	29.4	0.37	0.55	6	152	250	17	HY	400	Reel
-7525450												HY	50	Carton
-75304	3/4	19.1	4	1.2	29.4	0.37	0.55	6	152	300	21	HY	400	Reel
-7530450												HY	50	Carton
-100200	1	25.4	2	1.4	35.7	0.47	0.70	7	178	200	14	HY	300	Reel
-100304	1	25.4	4	1.4	36.5	0.51	0.76	8	203	300	21	HY	300	Reel
-10030450	1	25.4	4	1.4	36.5	0.53	0.79	8	203	300	21	HY	50	Carton
-125204	1-1/4	31.8	4	1.8	45.2	0.77	1.15	9	229	200	14	HY	250	Reel
-150204	1-1/2	38.1	4	2.0	51.6	0.84	1.25	10	254	200	14	43	200	Reel
-15020450												43	50	Carton
-150204100												43	100	Reel
-200154	2	50.8	4	2.6	64.8	1.13	1.68	14	356	200	14	43	250	Reel

Factory Assemblies: Air, Service Station Air, Jackhammer and Sledgehammer hose assemblies are available from stock in popular configurations and appear at the end of this section.

UNDER NO CIRCUMSTANCES IS THE GSTII FAMILY OF HOSES OR ANY OTHER EPDM HOSE TO BE USED IN A WELDING HOSE AND OR WELDING GAS DELIVERY APPLICATION UNLESS THE PARKER CATALOG, LITERATURE, AND PRODUCT MARKING EXPLICITLY STATES THAT THE PRODUCT IS APPROVED FOR WELDING HOSE FUEL GAS APPLICATIONS.

(Continued on the following page)

GST® II
General Service Hose
Series 7031(R) (Green),
Series 7057 (Blue), Series 7092 (Red),
Series 7093 (Black), and Series 7096 (Yellow)

view on web page

GST® II hose is a versatile general purpose hose designed to handle air, mild chemicals and water. The hose construction incorporates a tube that is compatible with light oil mists found in air tool lubricating systems, and the multiple plies of textile reinforcement provide flexibility. The cover is resistant to abrasion, heat and ozone, and is available in multiple standard colors for color-coded identification.

NOTE: Do not use in welding hose and/or welding gas delivery applications.

Other cover colors available:

7031(R) (Green)
7057 (Blue)
7096 (Yellow)
7092 (Red)

Series 7093 (Black)

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
-19200	3/16	4.8	2	0.4	11.1	0.07	0.10	2	51	200	14	*	800	Reel
-25200	1/4	6.4	2	0.5	12.7	0.09	0.13	3	64	200	14	HY	800	Reel
-25250	1/4	6.4	2	0.5	12.9	0.10	0.15	3	76	250	17	HY	800	Reel
-25300	1/4	6.4	2	0.6	14.0	0.12	0.18	3	84	300	21	HY	800	Reel

Factory Assemblies: Air, Service Station Air, Jackhammer and Sledgehammer hose assemblies are available from stock in popular configurations and appear at the end of this section.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

UNDER NO CIRCUMSTANCES IS THE GSTII FAMILY OF HOSES OR ANY OTHER EPDM HOSE TO BE USED IN A WELDING HOSE AND OR WELDING GAS DELIVERY APPLICATION UNLESS THE PARKER CATALOG, LITERATURE, AND PRODUCT MARKING EXPLICITLY STATES THAT THE PRODUCT IS APPROVED FOR WELDING HOSE FUEL GAS APPLICATIONS.

Tube: Black EPDM; ARPM Class C oil resistance
Reinforcement: Multiple textile plies
Cover: Black, blue, green, red, yellow EPDM; smooth finish
Temp. Range: -40°F to +212°F (-40°C to +100°C)
Brand Method: White ink on black, blue, green, red hose; black ink on yellow hose
Brand Example: PARKER (SERIES) GST® II (ID) XXX PSI MAX WP
Design Factor: 4:1

Industry Standards: None Applicable
Applications:
- Air (including oil mist), mild chemicals, water
- Agriculture, construction, general industrial

Vacuum: Not recommended
Compare to: Boston Bosflex A/W; ContiTech FrontierGeneral Purpose; Gates Adapta Flex; Thermoid Valuflex GS

(Continued on the following page)

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Series 7031(R), Series 7057, Series 7092, Series 7093, and Series 7096 – GST® II General Service Air & Water Hose *(Continued)*

Series 7093 (Black) *(Continued)*

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
-31200	5/16	7.9	2	0.6	15.1	0.12	0.18	3	84	200	14		750	Reel
-31300	5/16	7.9	2	0.6	15.9	0.14	0.21	4	89	300	21	HY	750	Reel
-38200	3/8	9.5	2	0.7	16.7	0.14	0.21	4	89	200	14	HY	700	Reel
-38300	3/8	9.5	2	0.7	17.5	0.16	0.24	4	102	300	21	HY	700	Reel
-50200	1/2	12.7	2	0.8	20.7	0.20	0.30	5	114	200	14	HY	550	Reel
-50250	1/2	12.7	2	0.8	21.4	0.22	0.33	5	114	250	17	HY	550	Reel
-50304	1/2	12.7	4	0.9	22.2	0.24	0.36	5	127	300	21	HY	500	Reel
-63200	5/8	15.9	2	1.0	24.6	0.24	0.36	6	140	200	14	HY	450	Reel
-63304	5/8	15.9	4	1.1	27.0	0.35	0.52	6	140	300	21	HY	450	Reel
-75200	3/4	19.1	2	1.1	28.2	0.32	0.48	6	152	200	14	HY	400	Reel
-7520050												HY	50	Carton
-75304	3/4	19.1	4	1.2	29.4	0.37	0.55	6	152	300	21	HY	400	Reel
-100200	1	25.4	2	1.4	35.7	0.47	0.70	7	178	200	14	HY	300	Reel
-100304	1	25.4	4	1.4	36.5	0.51	0.76	8	203	300	21	HY	300	Reel
-125204	1-1/4	31.8	4	1.8	45.2	0.77	1.15	9	229	200	14	HY	250	Reel
-150204	1-1/2	38.1	4	2.0	51.6	0.84	1.25	10	254	200	14	43	200	Reel
-200154	2	50.8	4	2.6	64.8	1.13	1.68	14	356	200	14	43	250	Reel

Factory Assemblies: Air, Service Station Air, Jackhammer and Sledgehammer hose assemblies are available from stock in popular configurations and appear at the end of this section.

UNDER NO CIRCUMSTANCES IS THE GSTII FAMILY OF HOSES OR ANY OTHER EPDM HOSE TO BE USED IN A WELDING HOSE AND OR WELDING GAS DELIVERY APPLICATION UNLESS THE PARKER CATALOG, LITERATURE, AND PRODUCT MARKING EXPLICITLY STATES THAT THE PRODUCT IS APPROVED FOR WELDING HOSE FUEL GAS APPLICATIONS.

view on web page

Series 7031 / 7031(R) (Green)

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7031-75304R	3/4	19.1	4	1.2	29.4	0.37	0.55	6	152	300†	21†	HY	400	Reel
7031-7530450R												HY	50	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

UNDER NO CIRCUMSTANCES IS THE GSTII FAMILY OF HOSES OR ANY OTHER EPDM HOSE TO BE USED IN A WELDING HOSE AND OR WELDING GAS DELIVERY APPLICATION UNLESS THE PARKER CATALOG, LITERATURE, AND PRODUCT MARKING EXPLICITLY STATES THAT THE PRODUCT IS APPROVED FOR WELDING HOSE FUEL GAS APPLICATIONS.

Series 7031(R), Series 7057, Series 7092, Series 7093, and Series 7096 – GST® II General Service Air & Water Hose *(Continued)*

view on web page

Series 7057 (Blue)

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7057-50250	1/2	12.7	2	0.8	21.4	0.23	0.34	5	114	250	17	HY	500	Reel
7057-75304	3/4	19.1	4	1.2	29.4	0.37	0.55	6	152	300	21	HY	350	Reel
7057-7530450												HY	50	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

UNDER NO CIRCUMSTANCES IS THE GSTII FAMILY OF HOSES OR ANY OTHER EPDM HOSE TO BE USED IN A WELDING HOSE AND OR WELDING GAS DELIVERY APPLICATION UNLESS THE PARKER CATALOG, LITERATURE, AND PRODUCT MARKING EXPLICITLY STATES THAT THE PRODUCT IS APPROVED FOR WELDING HOSE FUEL GAS APPLICATIONS.

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Series 7096 (Yellow)

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7096-75304	3/4	19.1	4	1.2	29.4	0.37	0.55	6	152	300	21	HY	400	Reel
7096-7530450												HY	50	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

UNDER NO CIRCUMSTANCES IS THE GSTII FAMILY OF HOSES OR ANY OTHER EPDM HOSE TO BE USED IN A WELDING HOSE AND OR WELDING GAS DELIVERY APPLICATION UNLESS THE PARKER CATALOG, LITERATURE, AND PRODUCT MARKING EXPLICITLY STATES THAT THE PRODUCT IS APPROVED FOR WELDING HOSE FUEL GAS APPLICATIONS.

SUPER-FLEX® GS

General Service Air & Water Hose

Series 7322 (Red) and
Series 7323 (Black)

view on web page

view on web page

Series 7322/7323 is a versatile general purpose hose designed to handle air, mild chemicals and water. The hose incorporates a tube that is compatible with light oil mists, and features a rigid mandrel construction that produces a true round, concentric profile for superior coupling fit and retention. The cover is resistant to abrasion, heat and ozone.

NOTE: Do not with use with oil or refined fuel.

Series 7322 (Red) and Series 7323 (Black)

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number 7322 or 7323	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
-125200	1-1/4	31.8	2	1.7	44.2	0.71	1.06	8	191	200	14	43	200	Coil
-150200	1-1/2	38.1	2	2.0	50.4	0.82	1.22	9	216	200	14	43	200	Coil
-200200	2	50.8	4	2.6	65.2	1.23	1.83	12	305	200	14	43	200	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM; ARPM Class Coil resistance
Reinforcement: Multiple textile plies
Cover: **7322:** Red EPDM, wrapped finish
7323: Black EPDM, wrapped finish
Temp. Range: -40°F to +212°F (-40°C to +100°C)
Brand Method: **7322:** White text on red stripe
7323: White text on black stripe
Brand Example: PARKER SERIES (7322) (7323) SUPER-FLEX® GS 200 PSI MAX WP GENERAL SERVICE
Design Factor: 4:1

Vacuum: Not recommended
Industry Standards: None applicable
Applications:
- Air (including oil mist), mild chemicals, water
- Agriculture, construction, general industrial

Compare to: ContiTech Frontier; Gates AdaptaFlex

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

MPT® II
Multipurpose Oil Resistant Hose
Series 7094 (Red) and
Series 7095 (Black)

view on web page

view on web page

Series 7094/7095 hose construction is electrically nonconductive multipurpose hose with a minimum resistance of one megaohm per inch at 1000 volts DC. The multiple plies of textile reinforcement provide flexibility and the cover is resistant to oil and weathering.

NOTES:
- Do not use in dry air applications (typically, air systems that do not expose the tube of the hose to lubricating oil mist from the compressor).
- The user must determine if the hose is suitable for applications subject to electrical hazard. Contact Parker for additional information.
- Do not use to dispense or transfer biodiesel, diesel fuel, or gasoline.

Series 7094 (Red)

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number 7094	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
-25200	1/4	6.4	2	0.5	12.7	0.10	0.15	2	51	200	14	HY	800	Reel
-25300				0.6	14.0	0.12	0.18	3	64	300	21	HY	800	Reel
-31300	5/16	7.9	2	0.6	15.1	0.13	0.19	3	84	300	21	HY	750	Reel
-38200	3/8	9.5	2	0.7	16.7	0.15	0.22	4	97	200	14	HY	700	Reel
-38300	3/8	9.5	2	0.7	17.5	0.17	0.25	4	97	300	21	HY	650	Reel
-50200	1/2	12.7	2	0.8	20.7	0.21	0.31	5	127	200	14	HY	550	Reel
-50304	1/2	12.7	4	0.9	22.2	0.26	0.39	5	127	300	21	HY	500	Reel
-63304	5/8	15.9	4	1.1	27.0	0.38	0.57	6	155	300	21	HY	450	Reel
-75200	3/4	19.1	2	1.1	28.2	0.34	0.51	8	191	200	14	HY	400	Reel
-75304	3/4	19.1	4	1.2	29.4	0.40	0.60	6	152	300	21	HY	400	Reel
-100200	1	25.4	2	1.4	35.7	0.49	0.73	10	254	200	14	HY	300	Reel
-100304					36.5	0.54	0.80	8	203	300	21	HY	300	Reel
-125204	1-1/4	31.8	4	1.8	45.2	0.82	1.22	9	229	200	14	HY	250	Reel
-150204	1-1/2	38.1	4	2.0	51.6	0.90	1.34	10	254	200	14	HY	200	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

(Continued on the following page)

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Series 7094 (Red) and Series 7095 (Black) – MPT® II Multipurpose Oil Resistant Hose – Nonconductive *(Continued)*

Series 7095 (Black)

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
-25300				0.6	14.0	0.12	0.18	3	64	300	21	HY	800	Reel
-31300	5/16	7.9	2	0.6	15.1	0.13	0.19	3	84	300	21	HY	750	Reel
-38200	3/8	9.5	2	0.7	16.7	0.15	0.22	4	97	200	14	HY	700	Reel
-38300	3/8	9.5	2	0.7	17.5	0.17	0.25	4	97	300	21	HY	650	Reel
-50200	1/2	12.7	2	0.8	20.7	0.21	0.31	5	127	200	14	HY	550	Reel
-50304	1/2	12.7	4	0.9	22.2	0.26	0.39	5	127	300	21	HY	500	Reel
-63304	5/8	15.9	4	1.1	27.0	0.38	0.57	6	155	300	21	HY	450	Reel
-75200	3/4	19.1	2	1.1	28.2	0.34	0.51	8	191	200	14	HY	400	Reel
-75304	3/4	19.1	4	1.2	29.4	0.40	0.60	6	152	300	21	HY	400	Reel
-100200	1	25.4	2	1.4	35.7	0.49	0.73	10	254	200	14	HY	300	Reel
-100304	1	25.4	2	1.4	36.5	0.54	0.80	8	203	300	21	HY	300	Reel
-125204	1-1/4	31.8	4	1.8	45.2	0.82	1.22	9	229	200	14	HY	250	Reel
-150204	1-1/2	38.1	4	2.0	51.6	0.90	1.34	10	254	200	14	HY	200	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile; ARPM Class A oil resistance
Reinforcement: Multiple textile plies
Cover: 7094: Red chloroprene, smooth finish
7095: Black chloroprene, smooth finish
Temp. Range: Air: -20°F to +158°F (-29°C to +70°C)
Other Media: -20°F to +212°F (-29°C to +100°C)
Brand Method: White ink
Brand Example: PARKER SERIES (7094) (7095) MPT® II (ID) XXX PSI MAX WP ELECTRICALLY NONCONDUCTIVE
Design Factor: 4:1
Industry Standards: Electrically nonconductive with a minimum resistance of one megaohm per inch at 1000 volts DC

Applications:
- Air, mild chemicals, oil, water
- Cooling lines for electric furnaces and pot lines; lubrication systems
- Agriculture, construction, foundries, general industrial

Vacuum: Not recommended
Compare to: Boston Shock Safe; ContiTech Ortac/Variflex; Gates PremoFlex/19B

JIFFY™
Push-On Multipurpose Hose
Series 7212

view on web page

Series 7212 hose construction incorporates a silicone-free tube that does not contaminate air powered paint spray systems. The braided textile reinforcement is applied at a precise angle to provide kink resistance and superior coupling retention—to be used with push-on couplings which do not require bands, clamps or special tools for installation. The flame resistant cover meets MSHA requirements and is resistant to oil and weathering.

NOTES:
- Do not use in dry air applications (typically, air systems that do not expose the tube to a lubricating oil mist).
- Do not use to dispense or transfer biodiesel, diesel fuel, or gasoline in regulated service (API, NFPA, UL, ULC or any other agency approval or listing).
- Do not use in vehicle engine applications.
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.
- Do not use bands or clamps to attach push-on couplings.

Other colors available:

7212-BL	
7212-GN	
7212-GY	
7212-RD	
7212-YL	

⚠WARNING!
- **The hose does not include a static wire; transfer of refined fuel may create an accumulation – and catastrophic distcharge – of static electrical buildup.**

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7212-251XX	1/4	6.4	1	0.5	12.5	0.09	0.13	3	76	300	21	HY	700	Reel
7212-381XX	3/8	9.5	1	0.6	15.7	0.12	0.18	3	76	300	21	HY	700	Reel
7212-501XX	1/2	12.7	1	0.8	19.1	0.15	0.22	5	127	300	21	HY	600	Reel
7212-631XX	5/8	15.9	1	0.9	23.0	0.21	0.31	6	152	300	21	HY	500	Reel
7212-750XX	3/4	19.1	1	1.1	27.7	0.30	0.45	7	178	300	21	HY	400	Reel

XX in Part Number = BK (black), BL (blue), GN (green), GY (grey), RD (red), YL (yellow)
Factory Cut Lengths: Blue and gray hose available from stock in 50-ft. coils. See the following page.
Reattachable Couplings: Parker Series 82 Push-Lok® couplings.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile; ARPM Class A oil resistance
Reinforcement: One textile braid
Cover: Black, blue, gray, green, red or yellow chloroprene; smooth finish
Temp. Range: Air: -40°F to +158°F (-40°C to +70°C)
Other Media: -40°F to +212°F (-40°C to +100°C)
Brand Method: White ink on black, blue and red hose; black ink on green, gray and yellow hose
Brand Example: PARKER 7212 JIFFY™ HOSE PUSH-ON (ID) 300 PSI MAX WP MSHA #
Design Factor: 4:1
Industry Standards: MSHA

Applications:
- Air, mild chemicals, oil, water; biodiesel (to B20 in dedicated service), diesel, ethanol, gasoline
- Air operated paint systems, air tools, transfer lines, vacuum lines
- Agriculture, construction, general industrial; automotive/ factory color-coded assembly equipment

Compare to: ContiTech Autogrip; Gates Python Plus; Thermoid Flex Loc 300
Vacuum: 1/4" ID through 1/2" ID @ 28" Hg (711 mm Hg); 5/8" ID through 3/4" ID @ 15" Hg (381 mm Hg)

GRIZZLY™ 500
Multipurpose Hose
Series 7107

view on web page

Series 7107 hose is multipurpose hose that is electrically nonconductive with a minimum resistance of one megaohm per inch at 1000 volts DC. The bright yellow flame resistant modified nitrile/PVC cover is resistant to abrasion, oil and weathering.

NOTES:
- Do not use in dry air applications (typically, air systems that do not expose the tube to a lubricating oil mist).
- The user must determine if the hose is suitable for applications subject to electrical hazard. Review the safety guide for electrical resistance.
- Do not use to dispense or transfer biodiesel, diesel fuel, or gasoline.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7107-25500	1/4	6.4	4	0.6	15.9	0.16	0.24	2	51	500	34	*	750	Reel
7107-38500	3/8	9.5	4	0.8	19.1	0.20	0.30	3	76	500	34	HY	600	Reel
7107-50500	1/2	12.7	4	0.9	22.2	0.27	0.40	3	76	500	34	*	500	Reel
7107-75500	3/4	19.1	4	1.2	30.1	0.40	0.60	5	127	500	34	HY	400	Reel
7107-75500050												HY	24 x 50	Carton
7107-100500	1	25.4	4	1.5	38.1	0.59	0.88	6	152	500	34	*	300	Reel
7107-125500	1-1/4	31.8	4	1.8	45.7	0.80	1.19	9	229	500	34	43	250	Reel
7107-150500	1-1/2	38.1	4	2.0	51.6	0.91	1.36	12	305	500	34	43	200	Reel
7107-200500	2	50.8	4	2.685	68.2	1.31	1.95	24.0	609.6	500	34	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile; ARPM Class A oil resistance
Reinforcement: Multiple aramid plies; 2" ID (only) multiple textile plies
Cover: Yellow nitrile/PVC, smooth finish; 2" ID (only) wrapped finish
Temp. Range: Air: -40°F to +158°F (-40°C to +70°C)
Other Media: -40°F to +212°F (-40°C to +100°C)
Brand Method: Black ink
Brand Example: PARKER SERIES 7107 GRIZZLY (ID) 500 PSI MAX WP ELECTRICALLY NONCONDUCTIVE MSHA #
Design Factor: 4:1

Industry Standards: Electrically nonconductive with a minimum resistance of one megaohm per inch at 1000 volts DC; MSHA
Applications:
- Air, oil, mild chemicals, water
- Agriculture, construction, foundries, general industrial, mines

Vacuum: Not recommended
Compare to: Boston Mineforce; ContiTech Gorilla; Gates Terminator

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

ARCTIC EDGE™

Low Temperature Multipurpose Hose

Series 7102

view on web page

Series 7102 hose construction is a low temperature multipurpose hose that incorporates a static wire as a path to conduct an electrical charge to ground. The multiple plies of textile reinforcement provide flexibility and kink resistance to -70°F (-57°C). The cover is resistant to oil and weathering, and incorporates a longitudinal solid blue stripe for color-coded identification.

NOTES:
- Do not use in dry air applications (typically, air systems that do not expose the tube to a lubricating oil mist).
- Do not use to dispense or transfer biodiesel, diesel fuel, or gasoline in regulated service (API, NFPA, UL, ULC or any other agency approval or listing).
- Do not use in vehicle engine applications.
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7102-38304	3/8	9.5	4	0.8	19.1	0.21	0.31	4	97	300	21	HY	650	Reel
7102-50304	1/2	12.7	4	0.9	23.0	0.28	0.42	5	127	300	21	*	500	Reel
7102-75304	3/4	19.1	4	1.2	29.4	0.37	0.55	6	152	300	21	HY	400	Reel
7102-100304	1	25.4	4	1.5	37.0	0.54	0.80	8	203	300	21	HY	250	Reel
7102-125304	1-1/4	31.8	4	1.8	46.0	0.83	1.24	9	229	300	21	HY	250	Reel
7102-138304	1-3/8	34.9	4	1.9	48.9	0.89	1.33	10	241	300	21	*	200	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile; ARPM Class A oil resistance
Reinforcement: Multiple textile plies with static wire
Cover: Black chloroprene; smooth finish
Temp. Range: Air: -70°F to +158°F (-57°C to +70°C)
Other Media: -70°F to +212°F (-57°C to +100°C)
Brand Method: White ink; solid blue stripe on reverse
Brand Example: PARKER SERIES 7102 ARCTIC EDGE™ (-70°F) LOW TEMP (ID) 300 PSI MAX WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- Air, mild chemicals, oil, water; biodiesel (to B20 in dedicated service), diesel, ethanol, gasoline
- Cold weather, refrigerated applications
- Agriculture, construction, general industrial

Vacuum: Not recommended
Compare to: ContiTech Arctic Ortac; Thermoid Glacier Multipurpose

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

DRAGON BREATH®
Hot Air Blower Hose
Series SW360

view on web page

Series SW360 hose transfers hot air from a truck's compressor to the storage bin/cargo bay to blow out bulk material. The hose offers full suction capability, kink resistance, flexibility for ease of handling and a path to conduct a static electrical charge to ground. The cover resists abrasion, heat and ozone.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
SW360-1500	1-1/2	38.1	2	2.0	51.0	1.06	1.58	5	127	200	14	*	100	Coil
SW360-2000	2	50.8	2	2.5	64.7	1.52	2.26	6	152	200	14	*	100	Coil
SW360-3000	3	76.2	2	3.6	90.9	2.54	3.78	12	305	200	14	*	100	Coil
SW360-4000	4	101.6	2	4.6	116.6	3.73	5.55	16	406	125	9	*	100	Coil
SW360-6000	6	152.4	2	6.7	169.4	4.65	6.92	24	610	100	7	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM
Reinforcement: Multiple textile plies with single or dual wire helix
Cover: Black EPDM; wrapped finish
Temp. Range: -40°F to +350°F (-40°C to +177°C)
Brand Method: Black text on yellow stripe
Brand Example: PARKER DRAGON BREATH SW360 HOT AIR BLOWER HOSE XXX PSI WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- Hot air blower systems
- In-plant transfer; delivery, loading/unloading
- General industrial, transportation

Compare to: ContiTech Plicord Torrid Air; Eaton Boston Wildcat Hot Air; Gates Hot Air Blower
Vacuum: 29" Hg (737 mm Hg)

THORO-BRAID®
Medium Pressure Wire Braid Multipurpose Hose
Series 7251

view on web page

Series 7251 hose construction incorporates high tensile wire braid reinforcement that provides durability, kink resistance, medium pressure capability, and superior coupling retention. The flame resistant yellow cover is resistant to abrasion and oil.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7251-1501K	1-1/2	38.1	1	2.1	52.4	1.22	1.82	20	508	600	41	43, 71	150	Carton
7251-2002K	2	50.8	2	2.7	67.5	1.89	2.82	25	635	600	41	43, *	150	Carton
7251-2502K	2-1/2	63.5	2	3.2	80.2	2.30	3.43	32	813	500	35	*	150	Carton
7251-3002K	3	76.2	2	3.7	92.9	2.73	4.07	37	927	500	35	*	150	Carton
7251-4002K	4	101.6	2	4.7	118.3	3.63	5.41	48	1219	400	28	*	150	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black chloroprene
Reinforcement: One or multiple wire braids
Cover: Yellow nitrile/PVC; perforated wrapped finish
Temp. Range: -20°F to +212°F (-29°C to +100°C)
Brand Method: Embossed
Brand Example: PARKER SERIES 7251 THORO-BRAID® AIR HOSE - WIRE BRAID XXX PSI MAX WP-DE4 FIRE RESISTANT-MSHA #
Design Factor: 4:1

Industry Standards: MSHA
Applications:
- Air, mild chemicals, oil, water
- Heavy duty air tools, compressors; bull hose, drill hose
- Construction, general industrial, mines and quarries

Vacuum: Not recommended
Compare to: ContiTech Ultrabraid Steel Air; Gates 500 MP/ Air Drill; Kuriyama T130AK

Factory Assemblies Air Hose

Series 7092 (Red) and Series 7093 (Black)

view on web page

Series 7092/7093 factory-installed, crimped- on lightweight brass couplings provide a secure hose/fitting interface, and the rigid male NPT ends provide easy, quick and secure connections.

# Part Number	ID (in)	ID (mm)	Length (ft)	Length (m)	Approx Wt (lbs/ea)	Approx Wt (kg/ea)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Std Pack Qty (ea)	Pkg Type
7092253-KAA	1/4	6.4	50	15.24	6.01	2.73	300	21	*	5	Carton
7092253-KAB			25	7.62	3.15	1.43			*	10	Carton
7092382-KAC	3/8	9.5	50	15.24	7.37	3.34	200	14	*	5	Carton
7092383-KAA	3/8	9.5	50	15.24	8.33	3.78	300	21	*	5	Carton
7092383-KAB			25	7.62	4.34	1.87			*	10	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 7093 (Black)

# Part Number	ID (in)	ID (mm)	Length (ft)	Length (m)	Approx Wt (lbs/ea)	Approx Wt (kg/ea)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Std Pack Qty (ea)	Pkg Type
7093383-KAA	3/8	9.5	50	15.24	8.09	3.67	300	21	*	5	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Temp Range: -40°F to +160°F (-40°C to +100°C)
Design Factor: 4:1
Crimped-on Brass: Rigid Male 1/4" x 1/4" NPT Thread Couplings Each End
Display Cartons with Parker Center Retail Packaging Disc
Series 7092 (Red)

Factory Assemblies
Service Station Air Hose

Series 7092 (Red)

view on web page

Series 7092 is designed as an abrasion and weather resistant hose for service station compressor and general industrial air service. The factory-installed, crimped-on lightweight brass couplings provide a secure hose/fitting interface, and the rigid male NPT ends provide easy, quick and secure connections.

Part Number	ID (in)	Length (ft)	Approx Wt (lbs/ea)	Approx Wt (kg/ea)	Max WP (psi)	Cplg Thread Size (in)	Perm Cplg Rec *	Std Pack Qty (ea)	Pkg Type
7092RLC-300	3/8	25	4.34	1.97	300	1/4 x 1/4	*	10	Carton
7092RLC-600		50	8.33	3.78			*	5	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Temp Range: -40°F to +212°F (-40°C to +100°C)
Design Factor: 4:1
Crimped-on Brass: Rigid Male NPT Thread Couplings Each End
Cartoned and Tied: No Center Disc
Carton

Reinforced Conduit Hose

Series 7337

view on web page

Series 7337 is a durable cable cover with a rugged, abrasion resistant construction that is ideal for extreme service conditions in mining application Meets MSHA requirements for flame resistance and wall thickness.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Nom Std Pack Qty (ft)	Pkg Type
7337-1382	1-3/8	34.9	2	1.8	46.0	0.68	1.01	50	Coil
7337-1502	1-1/2	38.1	2	1.9	49.0	0.72	1.07	50	Coil
7337-1752	1-3/4	44.5	2	2.2	55.4	0.83	1.24	50	Coil
7337-1882	1-7/8	47.6	2	2.3	58.6	0.88	1.31	50	Coil
7337-2002	2	50.8	2	2.4	61.8	0.94	1.40	50	Coil
7337-2252	2-1/4	57.2	2	2.7	68.2	1.05	1.56	50	Coil
7337-2382	2-3/8	60.3	2	2.8	71.3	1.10	1.64	50	Coil
7337-2502	2-1/2	63.5	2	2.9	74.5	1.15	1.71	50	Coil
7337-3002	3	76.2	2	3.4	87.2	1.37	2.04	50	Coil
7337-3502	3-1/2	90.0	2	4.0	101.0	1.59	2.37	50	Coil
7337-4002	4	102.0	2	4.4	113.0	1.79	2.67	50	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black synthetic rubber
Reinforcement: Multiple textile plies
Cover: Black synthetic rubber; wrapped finish
Temp. Range: -30°F to +180°F (-34°C to +82°C)
Brand Method: Embossed
Brand Example: PARKER SERIES 7337 PREMIUM CONDUIT HOSE FLAME RESISTANT MINE CONDUIT USMSHA

Industry Standards: MSHA
Applications:
- Conduit
- Underground mining equipment

Vacuum: Not recommended

Reinforced Conduit Hose

Series 7337M

view on web page

Series 7337M is a durable, smooth finish cable cover with a rugged, abrasion resistant construction that is ideal for extreme service in mining applications, and meets MSHA requirements for flame resistance and wall thickness.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Nom Std Pack Qty (ft)	Pkg Type
7337M-502	1/2	12.7	2	1.0	24.6	0.31	0.46	450	Reel
7337M-502050								50	Carton
7337M-632	5/8	15.9	2	1.1	27.8	0.37	0.55	400	Reel
7337M-632050								50	Carton
7337M-752	3/4	19.1	2	1.2	30.8	0.41	0.61	350	Reel
7337M-752050								50	Carton
7337M-1002	1	25.4	2	1.5	37.2	0.52	0.77	250	Reel
7337M-1002050								50	Carton
7337M-1132	1-1/8	28.6	2	1.6	40.5	0.57	0.85	250	Reel
7337M-1132050								50	Carton
7337M-1252	1-1/4	31.8	2	1.7	43.6	0.63	0.94	250	Reel
7337M-1252050								50	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black synthetic rubber
Reinforcement: Multiple textile plies
Cover: Black synthetic rubber; smooth finish
Temp. Range: -30°F to +180°F (-34°C to +82°C)
Brand Method: Impression (2-sided)
Brand Example: Side 1: PARKER 7337M PREMIUM MINE CONDUIT HOSE FLAME RESISTANT USMSHA
Side 2: (ID) USMSHA

Industry Standards: MSHA
Applications:
- Conduit
- Underground mining equipment

Vacuum: Not recommended

BLUE THUNDER®
UHMWPE Chemical Hose
Series 7373T

view on web page

Series 7373T is a high pressure suction and discharge hose designed to handle the vast majority of commonly used acids, chemicals and solvents. The ultra high molecular weight polyethylene (UHMWPE) tube will not leach into and contaminate the product being conveyed, and features a temperature rating to 180°F (82°C). The corrugated hose construction incorporates a dual wire helix that provides full suction capability, kink resistance, flexibility for ease of handling, and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, mild chemicals and ozone.

NOTE: Refer to the Safety and Technical Information section of this catalog for safety, handling and use information. Refer to the Media Compatibility section to determine compatibility with specific chemicals. Contact Parker for additional chemical compatibility information.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7373T-750	3/4	19.1	2	1.2	30.3	0.40	0.60	3	76	200	14	43	100	Coil
7373T-1000	1	25.4	2	1.5	37.0	0.55	0.82	3	76	200	14	43	100	Coil
7373T-1250	1-1/4	31.8	2	1.7	43.2	0.64	0.95	4	102	200	14	43	100	Coil
7373T-1500	1-1/2	38.1	2	2.0	49.9	0.79	1.18	5	127	200	14	43	100	Coil
7373T-2000	2	50.8	2	2.6	65.0	1.27	1.89	6	152	200	14	43	100	Coil
7373T-2500	2-1/2	63.5	4	3.2	80.1	1.73	2.58	7	178	200	14	*	100	Coil
7373T-3000	3	76.2	4	3.6	92.6	2.12	3.16	7	178	200	14	*	100	Coil
7373T-4000	4	101.6	4	4.7	120.0	3.02	4.50	8	203	200	14	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Translucent ultra high molecular weight polyethylene (UHMWPE)
Reinforcement: Multiple textile plies with dual wire helix
Cover: Blue EPDM; corrugated wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +82°C)
Brand Method: Yellow text on blue stripe
Brand Example: PARKER SERIES 7373T BLUE THUNDER® UHMWPE TUBE MAX WP 200 PSI

Design Factor: 4:1
Industry Standards: None applicable
Applications:
- Acid, chemicals, solvents
- In-plant and storage tank transfer
- Delivery, transport

Vacuum: 29" Hg (737 mm Hg)
Compare to: Boston Chemcat; ContiTech Fabchem; Gates Renegade

⚠WARNINGS!
- The data tables published in the Media Compatibility secton of Catalog 4800 are based on tests and believed to be reliable–but the data should be used ONLY as a guide. The compatibility ratings for rubber/non-PVC materials apply to media at 70°F (21°C). However, chemicals may become increasingly aggressive as their temperatures progress above that level. Chemicals at elevated temperatures typically exceed the performance capability of a hose, even if that hose's general rating exceeds 70°F (21°C). Contact Parker for chemical compatibility data at elevated temperatures. If no data exists, it is the user's responsibility to determine hose/chemical/temperature compatibility. All critical applications should be tested.
- At operating temperatures of 125°F and above, only permanently attached couplings should be installed. At any operating temperature, couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- Do not use with internally expanded couplings. Refer to chemical hoses that incorporate a MXLPE tube.

WILDCATTER®
Green Corrugated Chemical Hose
Series SWC693

view on web page

Series SWC693 is an extremely flexible high pressure suction and discharge hose designed to handle the vast majority of commonly used acids, chemicals and solvents. The ultra high molecular weight polyethylene (UHMWPE) tube will not leach into and contaminate the product being conveyed. The lightweight corrugated hose construction incorporates a dual wire helix that provides full suction capability, superior kink resistance, minimal force-to bend and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, mild chemicals and ozone.

NOTE: Refer to the Safety and Technical Information section of this catalog for safety, handling and use information. Refer to the Media Compatibility section to determine compatibility with specific chemicals. Contact Parker for additional chemical compatibility information. Contact Parker for additional chemical compatibility information.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However, Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
SWC693-1000	1	25.4	2	1.5	37	0.53	0.79	1.0	25	250	17	*	100	Coil
SWC693-1250	1-1/4	31.8	2	1.7	44	0.67	1.00	1.3	33	250	17	*	100	Coil
SWC693-1500	1-1/2	38.1	2	2.0	50	0.78	1.16	1.5	38	250	17	*	100	Coil
SWC693-2000	2	50.8	2	2.5	65	1.14	1.70	2.0	51	250	17	*	100	Coil
SWC693-3000	3	76.2	2	3.5	90	1.76	2.62	4.5	114	200	14	*	100	Coil
SWC693-4000	4	101.6	2	4.6	117	2.52	3.75	8.0	203	200	14	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Translucent ultra high molecular weight polyethylene (UHMWPE)
Reinforcement: Multiple textile plies with dual wire helix
Cover: Green EPDM; corrugated wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +82°C)
Brand Method: Black text on yellow stripe
Brand Example: PARKER WILDCATTER SWC693 CHEMICAL HOSE UHMW TUBE MAX WP XXX PSI

Design Factor: 4:1
Industry Standards: None applicable
Applications:
- Acids, chemicals, solvents
- In-plant and tank transfer, delivery, transport

Vacuum: 29" Hg (737 mm Hg)

⚠WARNINGS!
- The data tables published in the Media Compatibility secton of Catalog 4800 are based on tests and believed to be reliable–but the data should be used ONLY as a guide. The compatibility ratings for rubber/non-PVC materials apply to media at 70°F (21°C). However, chemicals may become increasingly aggressive as their temperatures progress above that level. Chemicals at elevated temperatures typically exceed the performance capability of a hose, even if that hose's general rating exceeds 70°F (21°C). Contact Parker for chemical compatibility data at elevated temperatures. If no data exists, it is the user's responsibility to determine hose/chemical/temperature compatibility. All critical applications should be tested.
- At operating temperatures of 125°F and above, only permanently attached couplings should be installed. At any operating temperature, couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- Do not use with internally expanded couplings. Refer to chemical hoses that incorporate a MXLPE tube.

WILDCATTER®

High Pressure Chemical Hose

Series 7374

view on web page

Series 7374 is a high pressure, high temperature chemical suction and discharge hose designed for high pressure chemical blending functions on oilfield service equipment. The hose handles abrasive solutions and the vast majority of commonly used acids, chemicals and solvents to 180°F (82°C).

The hose construction incorporates a dual wire helix that provides full suction capability, kink resistance, flexibility for ease of handling and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, mild chemicals and ozone.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However, Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7374-1000	1	25.4	4	1.6	40.1	0.68	1.01	4	102	600	41	*	100	Coil
7374-1250	1-1/4	31.8	4	1.8	46.9	0.83	1.24	5	127	400	28	*	100	Coil
7374-1500	1-1/2	38.1	4	2.1	53.1	1.00	1.49	6	152	400	28	*	100	Coil
7374-2000	2	50.8	4	2.7	68.1	1.48	2.21	8	203	400	28	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Translucent ultra high molecular weight polyethylene (UHMWPE)
Reinforcement: Multiple textile plies with dual wire helix
Cover: Black EPDM; wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +82°C)
Brand Method: Yellow text on blue stripe
Brand Example: PARKER WILDCATTER 7374 HP CHEMICAL HOSE UHMW TUBE MAX WP XXX PSI
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- Abrasive solutions, acids, chemicals, solvents
- OEM aftermarket/replacement
- Oilfield blender service equipment

Vacuum: 29" Hg (737 mm Hg)

⚠WARNINGS!

- The data tables published in the Media Compatibility secton of Catalog 4800 are based on tests and believed to be reliable–but the data should be used ONLY as a guide. The compatibility ratings for rubber/non-PVC materials apply to media at 70°F (21°C). However, chemicals may become increasingly aggressive as their temperatures progress above that level. Chemicals at elevated temperatures typically exceed the performance capability of a hose, even if that hose's general rating exceeds 70°F (21°C). Contact Parker for chemical compatibility data at elevated temperatures. If no data exists, it is the user's responsibility to determine hose/chemical/temperature compatibility. All critical applications should be tested.
- At operating temperatures of 125°F and above, only permanently attached couplings should be installed. At any operating temperature, couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- Do not use with internally expanded couplings. Refer to chemical hoses that incorporate a MXLPE tube.

Paint Fluid Hose

Series 7108

view on web page

Series 7108 is a medium pressure transfer hose designed to handle high aromatic content products such as ketone solvents, lacquers, paint thinners, oil-based and water-based paints and many common chemicals. The hose construction incorporates a nylon tube that will not leach into and contaminate the product being conveyed, and the robust aramid reinforcement provides kink resistance, strength and superior coupling retention. The cover is resistant to mild chemicals, oil and ozone.

NOTES:
- Refer to the Safety and Technical Information section of this catalog for safety, handling and use information. Refer to the Media Compatibility section to determine compatibility with specific chemicals. Contact Parker for additional chemical compatibility information.
- Do not use in high pressure paint spray applications.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7108-251	1/4	6.4	2	0.5	12.4	0.09	0.13	3	76	500	35	HY, 43	500	Reel
7108-381	3/8	9.5	2	0.7	17.3	0.16	0.24	4	102	500	35	HY, 43	500	Reel
7108-501	1/2	12.7	2	0.9	22.2	0.25	0.37	5	127	750	52	HY, 43	500	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Translucent nylon
Reinforcement: Multiple aramid plies
Cover: Black chloroprene; smooth finish
Temp. Range: 0°F to +200°F (-18°C to +93°C)
Brand Method: White ink
Brand Example: PARKER SERIES 7108 PAINT FLUID HOSE (ID) XXX PSI MAX WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- Lacquers, light chemicals, paints, solvents, thinners
- Connector, mixing, transfer service

Vacuum: Not rated
Compare to: Boston Nyall; ContiTech NR Spray; Gates 77B

⚠WARNINGS!
- It is the responsibility of the user to determine if the hose is suitable for the application. Most chemical resistance guides are based on temperatures of 70°F (21°C). Elevated temperatures can change the chemical resistance ratings. Many chemicals will become more aggressive as temperatures increase, reducing the ability of hose compounds to withstand them. Contact Parker for chemical compatibility data at elevated temperatures. If no data exists, users are required to perform compatibility testing at the desired temperature.
- Do not use in high pressure paint spray applications requring a statically conductive hose.

WILDCATTER®
Blue Chemical Hose
Series SWC693B

view on web page

Series SWC693B is a high pressure, high temperature suction and discharge hose designed to transfer, transport and blend/mix the vast majority of commonly used acids, chemicals and solvents. The extremely flexible, lightweight and kink resistant corrugated design easily winds onto truck-mounted reels that service oilfield drilling sites. The hose construction incorporates a dual wire helix that provides full suction capability, superior kink resistance, minimal force-to-bend and a path to conduct a static electrical charge to ground. The distinctive blue cover is resistant to abrasion, mild chemicals and ozone.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However, Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
SWC693B-1000	1	25.4	2	1.4	34.9	0.38	0.57	1	25	250	17	*	100	Coil
SWC693B-1250	1-1/4	31.8	2	1.6	41.3	0.48	0.72	1	33	250	17	*	100	Coil
SWC693B-1500	1-1/2	38.1	2	1.9	47.8	0.62	0.92	2	38	250	17	*	100	Coil
SWC693B-2000	2	50.8	2	2.4	61.9	0.93	1.39	2	51	250	17	*	100	Coil
SWC693B-3000	3	76.2	2	3.4	87.3	1.45	2.16	5	114	200	14	*	100	Coil
SWC693B-4000	4	101.6	2	4.5	114.3	2.17	3.23	8	203	200	14	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Translucent ultra high molecular weight polyethylene (UHMWPE)
Reinforcement: Multiple textile plies with dual wire helix
Cover: Blue EPDM; corrugated wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +82°C)
Brand Method: Yellow text on blue stripe
Brand Example: PARKER WILDCATTER SWC693B CHEMICAL HOSE UHMW TUBE MAX WP XXX PSI

Design Factor: 4:1
Industry Standards: None applicable
Applications:
- Acids; chemicals; DEF fill & suction/transfer; solvents
- In-plant and tank transfer delivery, transport
- General industrial, oilfield

Vacuum: 29" Hg (737 mm Hg)

⚠WARNINGS!
- The data tables published in the Media Compatibility secton of Catalog 4800 are based on tests and believed to be reliable–but the data should be used ONLY as a guide. The compatibility ratings for rubber/non-PVC materials apply to media at 70°F (21°C). However, chemicals may become increasingly aggressive as their temperatures progress above that level. Chemicals at elevated temperatures typically exceed the performance capability of a hose, even if that hose's general rating exceeds 70°F (21°C). Contact Parker for chemical compatibility data at elevated temperatures. If no data exists, it is the user's responsibility to determine hose/chemical/temperature compatibility. All critical applications should be tested.
- At operating temperatures of 125°F and above, only permanently attached couplings should be installed. At any operating temperature, couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- Do not use with internally expanded couplings. Refer to chemical hoses that incorporate a MXLPE tube.

E-Z FORM™ GS
General Service Hose
Series 7395

view on web page

Series 7395 hose construction incorporates a tube that is resistant to commonly used coolant mixtures, a wire helix that provides full suction/vacuum capability and a path to conduct a static electrical charge to ground, and a cover that is resistant to abrasion, mild chemicals, heat and ozone. The unique Greek cover corrugations are tightly pitched and precision-engineered, providing minimal force-to-bend, superior kink resistance, and extreme flexibility to allow for routing through confined spaces where formed hose is normally required.

NOTE: Do not drag across sharp edges or highly abrasive surfaces.

Tube: Peroxide cured EPDM for sizes up through 1", Sulfur cured for sizes above 1"
Reinforcement: Multiple textile braids or plies with wire helix
Cover: Black EPDM; Greek corrugated finish
Temp. Range: -50°F to +257°F (-45°C to +125°C)
Brand Method: Black text on blue stripe
Brand Example: PARKER SERIES 7395 E-Z FORM™ GS HOSE XXX PSI MAX WP
Design Factor: 4:1
Industry Standards: SAE J20R2-D1 performance
UL94 Flame Resistance Rating HB

Applications:
- Air, coolant, mild chemicals, water
- Coolant systems, drain lines, vacuum service
- SAE-performance in engine coolant service, general industrial

Vacuum: 29" Hg (737 mm Hg)

(Continued on the following page)

Series 7395 – E-Z FORM™ GS General Service Hose *(Continued)*

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	Nom ID (in)	Nom ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7395-0375300	3/8	9.5	2	0.8	20.8	0.24	0.36	0.9	24.1	150	11	*	300	Reel
7395-0500025	1/2	12.7	2	0.9	22.9	0.27	0.40	0.9	24.1	150	5	HY	25	Carton
7395-0500300													300	Reel
7395-0625025	5/8	15.9	2	1.1	27.0	0.33	0.49	1.3	32.7	150	5	HY	25	Carton
7395-0625300													300	Reel
7395-0750025	3/4	19.1	2	1.2	30.0	0.35	0.52	1.4	36.3	150	5	HY/43	25	Carton
7395-0750300													300	Reel
7395-0875025	7/8	22.2	2	1.3	32.8	0.38	0.57	1.4	36.3	150	5	*	25	Carton
7395-0875300													300	Reel
7395-1000025	1	25.4	2	1.4	36.0	0.41	0.61	1.4	36.3	150	5	HY/43	25	Carton
7395-1000300													300	Reel
7395-1125025	1-1/8	28.6	2	1.5	38.0	0.42	0.63	1.8	46.5	75	5	*	25	Carton
7395-1250025	1-1/4	31.8	2	1.7	43.0	0.50	0.75	2.2	56.7	75	5	HY/43	25	Carton
7395-1250130													130	Coil
7395-1375025	1-3/8	34.9	2	1.8	46.0	0.54	0.80	2.8	70.5	75	5	*	25	Carton
7395-1375130													130	Coil
7395-1500025	1-1/2	38.1	2	1.9	49.0	0.58	0.86	2.9	74.1	75	5	43	25	Carton
7395-1500130													130	Coil
7395-1625025	1-5/8	41.3	2	2.1	53.0	0.64	0.95	3.6	92.4	75	5	*	25	Carton
7395-1750025	1-3/4	44.5	2	2.2	56.0	0.68	1.01	4.0	101.0	75	5	*	25	Carton
7395-2000025	2	50.8	2	2.5	63.0	0.96	1.43	4.6	117.4	75	5	43	25	Carton
7395-2000130													130	Coil
7395-2250025	2-1/4	57.1	2	2.8	70.0	1.08	1.61	6.5	165.2	75	5	*	25	Carton
7395-2375025	2-3/8	60.3	2	2.9	73.0	1.11	1.65	6.9	174.3	75	5	*	25	Carton
7395-2500025	2-1/2	63.5	2	3.0	76.5	1.17	1.74	7.2	182.5	75	5	*	25	Carton
7395-2750025	2-3/4	69.9	2	3.3	84.0	1.40	2.09	8.1	206.9	75	5	*	25	Carton
7395-3000025	3	76.2	2	3.5	90.0	1.51	2.25	8.8	224.2	75	5	*	25	Carton
7395-3000130													130	Coil
7395-3500025	3-1/2	88.9	2	4.1	104.0	1.92	2.86	11.7	298.0	75	5	*	25	Carton
7395-3500130													130	Coil
7395-4000025	4	101.6	2	4.6	116.0	2.20	3.28	13.4	340.3	75	5	*	25	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

⚠WARNING! **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**

view on web page

E-Z FORM™
EPDM-P Hose
Series 7390

The 7390 hose is designed to handle extreme bends and kink-free performance, while providing full-flow capabilities. Additionally, 7390 hose features a highly engineered peroxide-cured EPDM tube, that is designed to ensure fluid purity, thermal resistance, and superior sealing capabilities within thermal management systems. Further enhancing its durability, the synthetic rubber cover is specially compounded for flame resistance.

Part Number	ID (in)	ID (mm)	OD (in)	OD (mm)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Vacuum Rating (in HG)	Vacuum Rating (kPa)	Series Cplg Rec	Std Pack Qty (ft)	Pkg Type
7390-1250100-BLYL	1.25	31.8	1.70	44.3	2.2	55.9	150	10.3	0.50	0.75	29	98	NA	100	Coils
7390-1500100-BLYL	1.50	38.1	1.90	50.5	2.9	73.7	150	10.3	0.58	0.86	29	98	NA	100	Coils
7390-2000100-BLYL	2.00	50.8	2.50	65.0	4.6	116.8	150	10.3	0.96	1.43	29	98	NA	100	Coils
7390-3000100-BLYL	3.00	76.2	3.50	90.5	8.8	223.5	150	10.3	1.51	2.25	29	98	NA	100	Coils
7390-1250100-RLYL	1.25	31.8	1.70	44.3	2.2	55.9	150	10.3	0.50	0.75	29	98	NA	100	Coils
7390-1500100-RLYL	1.50	38.1	1.90	50.5	2.9	73.7	150	10.3	0.58	0.86	29	98	NA	100	Coils
7390-2000100-RLYL	2.00	50.8	2.50	65.0	4.6	116.8	150	10.3	0.96	1.43	29	98	NA	100	Coils
7390-3000100-RLYL	3.00	76.2	3.50	90.5	8.8	223.5	150	10.3	1.51	2.25	29	98	NA	100	Coils

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM, peroxide cured
Reinforcement: Multiple textile braids or plies with wire helix
Cover: Black synthetic rubber; greek corrugated
Temp. Range: -40F° to +212°F (-40°C to +100°C)
Brand Method: Mylar Blue (-BLYL) or Red (-RLYL) for color coding
Brand Example: Parker Series 7390 E-Z Form EPDM-P Hose

Design Factor: 4:1
Industry Standards: UL94 V-0 flame resistance rating
Application: DI water and glycol based coolant solutions
Vacuum: Full

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

E-Z FORM™ MP

Multipurpose Oil Resistant Hose

Series 7219

view on web page

Series 7219 hose construction incorporates a tube that is resistant to a oil and refined fuels, a wire helix that provides full suction/vacuum capability and a path to conduct a static electrical charge to ground, and a cover that is resistant to oil and weathering. The unique Greek corrugations are tightly pitched and precision-engineered, providing minimal force-to-bend, superior kink resistance, extreme flexibility and allow for routing through confined spaces where formed hose is normally required.

NOTES:
- Do not use in fuel dispensing or service applications requiring API, NFPA, UL, ULC or any other agency approval or listing.
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.
- Do not drag across sharp edges or highly abrasive surfaces.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies with wire helix
Cover: Black chloroprene; Greek corrugated finish
Temp. Range: Sizes 1/2", 5/8", 3/4" and 1": -30F° to +250°F (-34°C to +121°C)
All other sizes: -30°F to +212°F (-34°C to +100°C)
Brand Method: Black text on red stripe
Brand Example: PARKER SERIES 7219 E-Z FORM™ MP HOSE 75 PSI MAX WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- Biodiesel (to B20 in dedicated and non-dedicated service), diesel, ethanol, gasoline, oil
- Oil suction/return lines; vehicle fuel fill connector lines; drain lines
- Buses, cranes, mobile off-road equipment

Vacuum: 29" Hg (737 mm Hg)

(Continued on the following page)

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Series 7219 – E-Z FORM™ MP Multipurpose Oil Resistant Hose *(Continued)*

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	Nom ID (in)	Nom ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7219-0500025	1/2	12.7	2	0.9	22.9	0.30	0.45	0.9	24.1	150	5	HY	25	Carton
7219-0500300													300	Reel
7219-0625025	5/8	15.9	2	1.1	27.0	0.37	0.55	1.3	32.7	150	5	HY	25	Carton
7219-0625300													300	Reel
7219-0750025	3/4	19.1	2	1.2	30.0	0.39	0.58	1.4	36.3	150	5	HY/43	25	Carton
7219-0750300													300	Reel
7219-1000025	1	25.4	2	1.4	36.0	0.46	0.69	1.4	36.3	150	5	HY/43	25	Carton
7219-1000300													300	Reel
7219-1125025	1-1/8	28.6	2	1.5	38.0	0.42	0.63	1.8	46.5	75	5	*	25	Carton
7219-1250025	1-1/4	31.8	2	1.7	43.0	0.50	0.75	2.2	56.7	75	5	HY/43	25	Carton
7219-1250130													130	Coil
7219-1500025	1-1/2	38.1	2	1.9	49.0	0.58	0.86	2.9	74.1	75	5	43	25	Carton
7219-1500130													130	Coil
7219-1625025	1-5/8	41.3	2	2.1	53.0	0.64	0.95	3.6	92.4	75	5	*	25	Carton
7219-1750025	1-3/4	44.5	2	2.2	56.0	0.68	1.01	4.0	101.0	75	5	*	25	Carton
7219-2000025	2	50.8	2	2.5	63.0	0.96	1.43	4.6	117.4	75	5	43	25	Carton
7219-2000130													130	Coil
7219-2250025	2-1/4	57.2	2	2.8	70.0	1.08	1.61	6.5	165.2	75	5	*	25	Carton
7219-2500025	2-1/2	63.5	2	3.0	76.5	1.17	1.74	7.2	182.5	75	5	*	25	Carton
7219-2500130													130	Coil
7219-3000025	3	76.2	2	3.5	90.0	1.51	2.25	8.8	224.2	75	5	*	25	Carton
7219-3500025	3-1/2	88.9	2	4.1	104.0	1.92	2.86	11.7	298.0	75	5	*	25	Carton
7219-4000025	4	101.6	2	4.6	116.0	2.20	3.28	13.4	340.3	75	5	*	25	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

E-Z FORM™ HT
High Temperature Hose
Series 7399

view on web page

Series 7399 hose construction incorporates a high temperature and oil resistant tube, a wire helix that provides full suction/vacuum capability and a path to conduct a static electrical charge to ground, and a cover that is resistant to high temperatures, oil and weathering. The unique Greek corrugations are tightly pitched and precision-engineered, providing minimal force-to-bend, superior kink resistance, extreme flexibility and allow for routing through confined spaces where formed hose is normally required.

NOTE: Do not drag across sharp edges or highly abrasive surfaces.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7399-0500025	1/2	12.7	2	0.9	22.9	0.29	0.43	0.9	24.1	150	10	*	25	Carton
7399-0500300													300	Reel
7399-0625025	5/8	15.9	2	1.1	27.0	0.36	0.54	1.3	32.7	150	10	HY	25	Carton
7399-0625300													300	Reel
7399-0750025	3/4	19.1	2	1.2	30.0	0.38	0.57	1.4	36.3	150	10	HY	25	Carton
7399-0750300													300	Reel
7399-0875025	7/8	22.2	2	1.3	32.8	0.41	0.61	1.4	36.3	150	10	*	25	Carton
7399-0875300													300	Reel
7399-1000025	1	25.4	2	1.4	36.0	0.44	0.66	1.4	36.3	150	10	HY	25	Carton
7399-1000300													300	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black CPE
Reinforcement: Multiple textile braids with wire helix
Cover: Black hydrogenated nitrile; Greek corrugated finish
Temp. Range: -40°F to +302°F (-40°C to +150°C)
Brand Method: Black text on yellow stripe
Brand Example: PARKER SERIES 7399 E-Z FORM™ HT HOSE (ID) 150 PSI MAX WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- Oil suction/return lines; non-SAE power steering return lines
- Drain lines
- Buses, cranes, trucks, mobile/heavy-duty off-road equipment

Vacuum: 29" Hg (737 mm Hg)

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

SUPER-FLEX® FL-7
Barrier Fuel Line Hose
Series 389

view on web page

Series 389 hose incorporates a THV barrier to resist permeation, multiple aramid plies of reinforcement for coupling retention, durability and kink resistance. The cover is resistant to abrasion, oil and weathering. The hose is flexible for easy routing around small engines and compartments. Series 389 surpasses all of the current California Air Resource Board (CARB)/Small Off-Road Engine (SORE) and Environmental Protection Agency (EPA) stringent permeation requirements of 15g/m2/day. It also meets or exceeds SAE J30R7 and SAE J30R14T2 specifications.

NOTES:
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.
- Do not use in marine fuel applications. Refer to Series 7165.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
38903	3/16	4.8	2	0.4	10.3	0.06	0.09	1	33	100	7	*	250	Reel
38904	1/4	6.4	2	0.5	12.7	0.09	0.13	2	38	100	7	HY	250	Reel
38905	5/16	7.9	2	0.6	14.3	0.11	0.16	2	51	100	7	HY	250	Reel
38906	3/8	9.8	2	0.6	15.8	0.12	0.18	3	64	100	7	HY	250	Reel
38908	1/2	12.7	2	0.8	19.8	0.18	0.27	4	102	100	7	HY	250	Reel
38910	5/8	15.9	2	0.9	23.9	0.24	0.36	5	127	100	7	*	250	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile and translucent THV barrier
Reinforcement: Multiple aramid plies
Cover: Black CPE, smooth finish
Temp. Range: -40°F to + 257 °F (-40°C to +125°C)
Brand Method: White ink
Brand Example: PARKER SERIES 389 SUPER-FLEX® FL-7 (ID) SAE J30R7/R14T2 FUEL LINE (x) PKHPLINE 389 EPA COMPLIANT 15 g/m²/day CARB Q-08-013 MAX WP 100 PSI
NOTE: (x) changes every year
Design Factor: 5:1
Industry Standards: CARB 2020 SORE, EPA, SAE J30R7, SAE J30R14T2

Applications:
- Low pressure fuel lines on blowers, grinders, mowers, off-road engines, pressure washers, saws
- Biodiesel (to B20 in dedicated and non-dedicated service), diesel, ethanol, gasoline
- Agricultural equipment, autos, buses, construction equipment, off-road equipment

Vacuum: 3/16" ID through 3/8" ID @ 24" Hg (609 mm Hg); 1/2" ID through 3/4" ID @ 10" Hg (254 mm Hg)
Compare to: Avon Greenbar 700, Gates 4219B

⚠WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

SUPER-FLEX® FL
Barrier Fuel Line Hose
Series 397

view on web page

Series 397 incorporates a barrier to resist permeation and the cover is resistant to abrasion, oil and weathering. The hose is flexible for easy routing around small engines and compartments. Series 397 surpasses requirements of 15g/m2/day, and provides SAE J30R7/30R14T2 performance.

NOTES: • Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.
• Do not use in marine fuel applications. Refer to Series 7165.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
39703	3/16	4.7	1	0.4	11.1	0.06	0.09	1	33	100	7	*	250	Reel
39704	1/4	6.4	1	0.5	12.7	0.09	0.13	2	38	100	7	HY	250	Reel
39705	5/16	7.9	1	0.6	14.2	0.11	0.16	2	51	100	7	HY	250	Reel
39706	3/8	9.5	1	0.7	16.7	0.12	0.18	3	64	100	7	HY	250	Reel
39708	1/2	12.7	1	0.8	21.0	0.18	0.27	4	102	100	7	HY	250	Reel
39710	5/8	15.9	2	0.9	23.9	0.23	0.34	5	127	35	2	*	250	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile and translucent thermoplastic barrier
Reinforcement: One textile braid or multiple textile plies
Cover: Black CPE, smooth finish
Temp. Range: -30°F to +257°F (-34°C to +125°C)
Brand Method: White ink
Brand Example: PARKER SERIES 397 (P/N) SUPER-FLEX® FL (ID) LOW PERMEATION FUEL LINE (***x***) PKHPLINE 397 EPA COMPLIANT EPA COMPLIANT 15 g/m²/day C-U-06-010 MAX WP 100 PSI
NOTE: (x) changes every year
Design Factor: 5:1
Industry Standards: EPA, SAE J30R7/J30R14T2 (Performance)

Applications:
- Low pressure fuel lines on blowers, grinders, mowers, off-road engines, pressure washers, saws
- Biodiesel (to B100 in dedicated and non-dedicated service), diesel, ethanol, gasoline
- Agricultural equipment, autos, buses, construction equipment, off-road equipment

Vacuum: 3/16" ID through 3/8" ID @ 24" Hg (609 mm Hg); 1/2" ID through 3/4" ID @ 10" Hg (254 mm Hg)
Compare to: Avon Greenbar, Mark IV PermaSeal
Fittings: Over B20 biodiesel fuel, recommend using stainless or nylon fittings.
See Material Compatibility Chart

⚠WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Fuel Line/Vapor Emission Hose

Series 395

view on web page

Series 395 hose is flexible for easy routing in and around small engines and small engine compartments, and the cover is resistant to abrasion, oil and weathering.

NOTES:
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.
- Do not use in marine fuel applications. Refer to Series 7165.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
39553	3/16	4.8	2	0.4	10.3	0.07	0.10	2	51	75	5	*	250	Carton
39550	1/4	6.4	2	0.5	12.7	0.10	0.15	2	51	50	3	HY	250	Carton
39551	5/16	7.9	2	0.6	14.3	0.11	0.16	3	76	50	3	*	250	Carton
39552	3/8	9.5	2	0.6	15.9	0.14	0.21	4	89	50	3	HY	250	Carton
39554	1/2	12.7	2	0.8	19.8	0.17	0.25	4	102	35	2	HY	250	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies
Cover: Black chloroprene; smooth finish
Temp. Range: -40°F to +257 °F (-40°C to +125°C)
Brand Method: White ink
Brand Example: (ID) FUEL/VAPOR LINE SAE 30R7
Design Factor: 5:1
Industry Standards: SAE J30R7

Applications:
- Low pressure fuel lines, vapor emission service
- Biodiesel (to B20 in dedicated and non-dedicated service), diesel, ethanol, gasoline
- Agricultural equipment, autos, buses, construction equipment, off-road equipment

Vacuum: 24" Hg (3/16" ID through 3/8" ID); 10" Hg (1/2" ID)
Compare to: Thermoid Fueling, Vapor Emission and Crankcase Ventilation SAE 30R7

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Heater Hose

Series 7181

view on web page

Series 7181 hose construction designed to SAEJ20R3 D-2 provides electrochemical resistance (ECR) to inhibit striations and rusting of hose-to-metal interfaces, and high temperature performance. The hose is resistant to abrasion, mild chemicals and weathering.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7181-251	1/4	6.4	2	0.5	13.4	0.10	0.15	3	64	65	5	*	700	Reel
7181-311	5/16	8.0	2	0.6	15.0	0.13	0.27	5	127	65	5	*	700	Reel
7181-381	3/8	9.5	2	0.7	17.5	0.16	0.24	5	127	65	5	*	600	Reel
7181-501	1/2	12.7	2	0.8	20.7	0.19	0.28	6	152	65	5	*	500	Reel
7181-631	5/8	15.9	2	0.9	23.9	0.23	0.34	8	203	65	5	HY	500	Reel
7181-631050	5/8	15.9	2	0.9	23.9	0.23	0.37	8	203	65	5	HY	5 x 50	Carton
7181-751	3/4	19.1	2	1.1	27.1	0.27	0.40	9	229	50	3	*	500	Reel
7181-1001	1	25.4	2	1.3	34.0	0.37	0.55	12	305	45	3	*	300	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM
Reinforcement: Multiple textile plies
Cover: Black EPDM; smooth finish
Temp. Range: -40°F to +257°F (-40°C to +125°C)
Brand Method: White ink
Brand Example: PARKER SERIES 7181 HEATER HOSE SAE 20R3EC D-2 (ID) XX PSI MAX WP ELECTROCHEMICALLY RESISTANT
Design Factor: 4:1
Industry Standards: SAE J20R3EC Class D2

Applications:
- Coolant, hot water, mild chemicals
- Industrial and vehicle coolant systems; low pressure drain lines
- Agriculture, construction, general industrial, transportation

Vacuum: 1/4" ID through 1/2" ID @ 10" Hg (254 mm Hg);
5/8" ID @ 8" Hg (203 mm Hg);
3/4" ID @ 7 "Hg (179 mm Hg);
1" ID @ 6" Hg (152 mm Hg)
Compare to: ContiTech OEM; Gates Green Stripe

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Heater Hose

Series 7186

view on web page

Series 7186 is a flexible, lightweight coolant/heater/water hose for standard duty service. The EPDM construction is resistant to abrasion, mild chemicals and weathering.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7186-501	1/2	12.7	2	0.8	19.8	0.17	0.25	6	152	125	9	*	500	Reel
7186-501050													5 x 50	Carton
7186-631	5/8	15.9	2	0.9	23.0	0.20	0.30	8	203	90	6	*	500	Reel
7186-631050													5 x 50	Carton
7186-751	3/4	19.1	2	1.0	26.2	0.24	0.36	9	229	70	5	*	500	Reel
7186-751050													5 x 50	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM
Reinforcement: Multiple textile plies
Cover: Black EPDM; smooth finish
Temp. Range: -40°F to +212°F (-40°C to +100°C)
Brand Method: White ink
Brand Example: PARKER SERIES 7186 HEATER HOSE (ID)
Design Factor: 4:1
Industry Standards: None applicable

Applications:
- Coolant, hot water, mild chemicals
- Industrial and vehicle coolant systems; low pressure drain line
- Agriculture, construction, general industrial, transportation

Vacuum: 1/2" ID @ 10" Hg (254 mm Hg);
5/8" ID @ 8" Hg (203 mm Hg);
3/4" ID @ 7" Hg (179 mm Hg)
Compare to: Thermoid Black Standard Heater

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Silicone Heater Hose / Standard Wall

Series 6722

view on web page

Series 6722 silicone heater hose meets or exceeds SAE J20R3 Class A requirements. The multiple plies of textile reinforcement and extruded construction provide long and flexible lengths that resist coolant solutions, aging, cold leaks, cracking, delamination, ozone and peeling.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	Size (in)	ID (in)	ID (mm)	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Min Burst Press (psi)	Min Burst Press (bar)	Nom Std Pack Qty (ft)	Pkg Type
6722-0250050	1/4	0.250	6.4	0.5	13.4	0.10	0.15	1	13	250	17	50	Carton
6722-0250250												250	Reel
6722-0313100	5/16	0.313	8.0	0.6	15.0	0.12	0.18	1	18	250	17	100	Reel
6722-0375050	3/8	0.375	9.5	0.7	17.5	0.13	0.19	1	19	250	17	50	Carton
6722-0375250												250	Reel
6722-0500050	1/2	0.500	12.7	0.8	20.7	0.17	0.25	2	38	250	17	50	Carton
6722-0500250												250	Reel
6722-0625050	5/8	0.625	15.9	0.9	23.9	0.24	0.36	2	45	250	17	50	Carton
6722-0625100												100	Reel
6722-0625250												250	Reel
6722-0750050	3/4	0.750	19.1	1.1	27.1	0.26	0.39	3	70	200	14	50	Carton
6722-0750100												100	Reel
6722-1000050	1	1.000	25.4	1.3	34.0	0.34	0.51	5	127	175	12	50	Carton
6722-1000100												100	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Brick red silicone
Reinforcement: Multiple high temperature textile plies
Cover: Blue silicone, glossy finish
Temp. Range: -65°F to +347°F (-53°C to +175°C)
Brand Method: Impression
Brand Example: PARKER SILICONE SERIES 6722 (ID) -65°F TO +350°F
Max. Rec. WP: 1/3 of minimum burst pressure shown in table below

Industry Standards: SAE J20R3 Class A
Applications:
- Automobiles, buses, mobile/off-road equipment, trucks
- Other equipment or vehicles with heating lines

Vacuum: 1/4" ID through 1/2" ID @ 10" Hg (33.8 kPa);
5/8" ID @ 8" Hg (27.0 kPa);
3/4" ID @ 7" Hg (23.6 kPa);
1" ID @ 6" Hg (20.3 kPa)
Compare to: Federal 5526; Flexfab Blue 5526; Purosil 80

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Silicone Heater Hose / Heavy Wall

Series 6723

view on web page

Series 6723 thick wall silicone heater hose meets or exceeds SAE J20R3 Class A requirements. The multiple plies of textile reinforcement and extruded construction provide long and flexible lengths that resist coolant solutions, aging, cold leaks, cracking, delamination, ozone and peeling.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	Size (in)	ID (in)	ID (mm)	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Min Burst Press (psi)	Min Burst Press (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
6723-0375250	3/8	0.375	9.5	0.8	19.4	0.15	0.22	1	16	250	17	HY	250	Reel
6723-0625050	5/8	0.625	15.9	1.0	25.8	0.27	0.40	2	38	250	17	HY	50	Carton
6723-0750100	3/4	0.750	19.1	1.1	29.0	0.29	0.43	2	60	200	14	HY	100	Reel
6723-1000050	1	1.000	25.4	1.4	35.3	0.39	0.58	4	102	175	12	HY	50	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Brick red silicone
Reinforcement: Multiple high temperature textile plies
Cover: Blue silicone, glossy finish
Temp. Range: -65°F to +350°F (-53°C to +176°C)
Brand Method: Impression
Brand Example: PARKER SILICONE SERIES 6723 (ID) -65°F TO +350°
Max. Rec. WP: 1/3 of minimum burst pressure shown in table below
Industry Standards: SAE J20R3 Class A

Applications:
- Automobiles, buses, mobile/off-road equipment, trucks
- Other equipment or vehicles with heating lines

Vacuum: 3/8" ID @ 10" Hg (33.8 kPa);
5/8" ID @ 8" Hg (27.0 kPa);
3/4" ID @ 7" Hg (23.6 kPa);
1" ID @ 6" Hg (20.3 kPa)
Compare to: Flexfab Green 5521

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Silicone Heater Hose

Series 6724

view on web page

Series 6724 silicone high temperature heater hose meets or exceeds SAE J20R3 Class A requirements. The multiple plies of textile reinforcement and extruded construction provide long and flexible lengths that resist coolant solutions, aging, cold leaks, cracking, delamination, ozone and peeling.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	Size (in)	ID (in)	ID (mm)	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Min Burst Press (psi)	Min Burst Press (bar)	Nom Std Pack Qty (ft)	Pkg Type
6724-0250250	1/4	0.250	6.4	0.5	13.4	0.10	0.15	1	13	250	17	250	Reel
6724-0375250	3/8	0.375	9.5	0.7	17.5	0.13	0.19	1	19	250	17	250	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Brick red silicone
Reinforcement: Multiple high temperature textile plies
Cover: Blue silicone, glossy finish
Temp. Range: -65°F to +500°F (-53°C to +260°C)
Brand Method: Impression
Brand Example: PARKER SILICONE SERIES 6724 -65°F TO +500°F
Max. Rec. WP: 1/3 of minimum burst pressure shown in table below

Industry Standards: SAE J20R3 Class A
Applications:
- Automobiles, buses, mobile/off-road equipment, trucks
- Other equipment or vehicles with heating lines

Vacuum: 1/4" ID through 3/8" ID @ 10" Hg (33.8 kPa)

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Silicone Coolant Hose / 3-Ply

Series 6750

view on web page

Series 6750 silicone construction meets or exceeds SAE J20R1 Class A requirements. This hose resists coolant solutions, aging, cold leaks, cracking, delamination, ozone and peeling. Series 6750 is manufactured on twelve-foot mandrels for tight dimensional tolerances and is offered in standard 3-foot lengths.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	Size (in)	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ea)	Approx Wt (kg/ea)	Min Burst Press (psi)	Min Burst Press (bar)	Std Pack Qty (ea)	Pkg Type
6750-0750003	3/4	0.750	19.1	3	1.1	27.9	2.73	4.07	325	22	4 x 3-ft	Carton
6750-0875003	7/8	0.875	22.2	3	1.2	31.0	3.00	4.47	325	22	4 x 3-ft	Carton
6750-1000003	1	1.000	25.4	3	1.4	34.3	3.24	4.83	299	21	4 x 3-ft	Carton
6750-1125003	1-1/8	1.125	28.6	3	1.5	37.3	3.60	5.36	299	21	4 x 3-ft	Carton
6750-1250003	1-1/4	1.250	31.8	3	1.6	40.6	3.84	5.72	276	19	4 x 3-ft	Carton
6750-1500003	1-1/2	1.500	38.1	3	1.9	47.0	4.47	6.66	249	17	4 x 3-ft	Carton
6750-1625003	1-5/8	1.625	41.3	3	2.0	50.0	4.74	7.06	249	18	2 x 3-ft	Carton
6750-1750003	1-3/4	1.750	44.5	3	2.1	53.3	5.10	7.60	225	16	2 x 3-ft	Carton
6750-2000003	2	2.000	50.8	3	2.4	59.7	5.73	8.54	200	14	2 x 3-ft	Carton
6750-2375003	2-3/8	2.375	60.3	3	2.7	69.1	7.00	10.43	175	12	1 x 3-ft	Carton
6750-2500003	2-1/2	2.500	63.5	3	2.9	72.4	7.20	10.73	149	10	1 x 3-ft	Carton
6750-3000003	3	3.000	76.2	3	3.4	85.1	9.00	13.41	87	6	1 x 3-ft	Carton
6750-3500003	3-1/2	3.500	88.9	3	3.9	97.8	9.96	14.84	75	5	1 x 3-ft	Carton
6750-4000003	4	4.000	101.6	3	4.4	110.5	11.10	16.54	49	4	1 x 3-ft	Carton
6750-5000003	5	5.000	127.0	3	5.4	135.9	14.34	21.37	49	4	1 x 3-ft	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Brick red silicone
Reinforcement: Multiple high temperature textile plies
Cover: Blue silicone, matte finish
Temp. Range: -65°F to +350°F (-53°C to +176°C)
Brand Method: Black ink
Brand Example: PARKER SILICONE SERIES 6750 (ID) -65°F TO +350°F
Max. Rec. WP: 1/3 of minimum burst pressure shown in table below
Industry Standards: SAE J20R1 Class A

Applications:
- Automobiles, buses, mobile/off-road equipment, trucks
- Other equipment or vehicles with heating lines

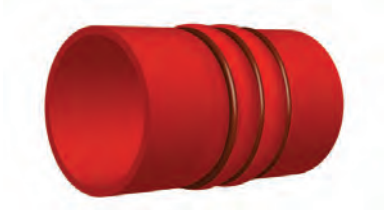
Vacuum: 3/4" ID @ 8" Hg (27.0 kPa);
7/8" through 1" ID @ 7" Hg (23.6 kPa);
1-1/8" ID @ 6" Hg (20.3 kPa);
1-1/4" ID @ 5" Hg (16.9 kPa);
1-1/2" ID @ 3" Hg (10.1 kPa);
1-5/8" ID @ 2" Hg (6.8 kPa);
1-3/4" ID @1" Hg (3.4 kPa);
2" ID through 5" ID is not recommended

Compare to: Federal 5515; Flexfab Blue 5515; Flexfab Green 5500; Purosil 7030

Silicone Charge Air Cooler Hose / 4-Ply

Hot Side

Series 6823



view on web page

Series 6823 is a 4-ply silicone Charge Air Cooler (CAC) hose designed to connect and align segments of the air charge system of a heavy duty engine. The air charge system manages the flow of the cool/hot air between the turbocharger and the engine; the hot side CAC hose transfers hot air from the engine and also helps stabilize the system by compensating for vibrations. Series 6823 features a maximum temperature to +500°F (+260°C), while the red color is used for color-coding the hot side of the system.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number 6823	Size (in)	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ea)	Approx Wt (kg/ea)	Min Bend Rad (in)	Min Bend Rad (mm)	Min Burst Press (psi)	Min Burst Press (bar)	Std Pack Qty (ea)	Pkg Type
6823-30006000	3	3.00	76.2	4	3.2	81.8	0.37	0.55	n/a	n/a	80	6	6 x 6-in	Carton
6823-35006000	3-1/2	3.50	88.9	4	3.7	94.5	0.43	0.64	n/a	n/a	80	6	6 x 6-in	Carton
6823-40006000	4	4.00	101.6	4	4.22	107.2	0.55	0.82	n/a	n/a	80	6	6 x 6-in	Carton
6823-40008000	4	4.00	101.6	4	4.2	107.2	0.74	1.10	n/a	n/a	80	5.5	6 x 8-in	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Brick red silicone
Reinforcement: Multiple high temperature aramid plies with external stainless steel retaining rings
Cover: Brick red silicone, matte finish
Temp. Range: -65°F to +500°F (-53°C to +260°C)
Brand Method: Black ink
Brand Example: PARKER SERIES 6823
Max. Rec. WP: 1/3 of minimum burst pressure shown in table below

Industry Standards: None applicable
Applications:
- Hot air connection between engine charge air system components
- Automobiles, buses, mobile/off-road equipment, trucks
- Other equipment or vehicles with heating lines

Vacuum: Not recommended
Compare to: Purosil 367

Silicone Coolant / Heater Hose

Series 6621

view on web page

Series 6621hose constructionmeets SAE J20R2 Class A performance criteria and incorporates multiple plies of textile reinforcement for durability, a helical wire for limited suction capability and collapse/kink resistance, and resists coolant solutions, aging, cold leaks, cracking, delamination, ozone and peeling. The unique Greek corrugations are precision engineered, providing extreme flexibility and kink resistance for applications that require tight bends for routing through confined spaces where formed hoses might normally be required. Series 6621 is manufactured on 130-foot mandrels—providing the longest and most flexible continuous hose lengths in the industry—for tight dimensional tolerances and maximum inventory utilization.

NOTE: Do not drag across sharp edges or highly abrasive services.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	Size (in)	ID (in)	ID (mm)	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Min Burst Press (psi)	Min Burst Press (bar)	Nom Std Pack Qty (ft)	Pkg Type
6621-1000025	1	0.984	25.0	14	35.0	0.30	0.52	2	50	225	16	25	Carton
6621-1250025	1-1/4	1.260	32.0	1.7	43.0	0.40	0.60	3	80	225	16	25	Carton
6621-2000025	2	2.008	51.0	2.5	64.0	0.88	1.31	6	150	225	16	25	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black silicone (other colors available; contact Parker)
Reinforcement: Multiple high temperature textile plies with wire helix
Cover: Red Greek corrugated silicone, matte finish (other colors available; contact Parker)
Temp. Range: -76°F to +392°F (-60°C to +200°C)
Brand Method: Black text on yellow stripe
Brand Example: PARKER SILICONE SERIES 6621 -76°F to +392°F
Max. Rec. WP: 1/3 of minimum burst pressure shown in table below

Industry Standards: SAE J20R2 Class A and TMC RP303B performance; ISO 1307-1997 dimensional tolerance

Applications:
- Coolant transfer in heater and coolant circuits
- Automobiles, buses, mobile/off-road equipment, trucks

Vacuum: 18" hg (457 mm Hg)

SOFT-FLEX™ DEF Dispenser Hose

Series 7116M

view on web page

Series 7116M hose construction incorporates a specially formulated EPDM tube and multiple plies of textile reinforcement for flexibility and kink resistance. The EPDM cover is resistant to abrasion, mild chemicals and ozone.

NOTES:
- To avoid DEF contamination, use only hose designed for the application, and stainless steel couplings to fabricate hose assemblies.
- Do not use for oil or fuel service.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7116M-380	3/8	9.5	2	0.7	16.7	0.13	0.19	4	97	150	10	*	700	Reel
7116M-500	1/2	12.7	4	0.9	22.7	0.24	0.36	5	127	150	10	*	550	Reel
7116M-750	3/4	19.1	4	1.2	29.4	0.34	0.51	6	152	150	10	*	400	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM, peroxide cured
Reinforcement: Multiple textile plies
Cover: Black EPDM; smooth finish
Temp. Range: -40°F to +212°F (-40°C to +100°C)
Brand Method: White ink
Brand Example: PARKER SERIES 7116M DEF SOFT-FLEX™ (ID) MAX WP 150 PSI
Design Factor: 4:1
Industry Standards: None applicable

Applications:
- DEF fluids, urea
- Dispensing for buses, trucks, mobile equipment
- Agriculture, construction, transportation

Vacuum: Not recommended
Compare to: ContiTech DEF Dispensing Hose; Flextral PE60

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

ARMADA®
Marine Multipurpose, Fuel Fill / Vent and Hardwall Wet Exhaust Hose
Series SW569

view on web page

Series SW569 is an extremely versatile suction and discharge hose for diverse applications such as bilge pump intake, discharge and ventilation; cabin heating; coolant and radiator service; oil and fuel systems using biodiesel (to B100 in dedicated service), ethanol, and gasoline; lubrication systems; wet exhaust systems; nonpotable water systems; and toilet and bath connections. Series SW569 incorporates a dual wire helix that provides full suction capability, flexibility and kink resistance, and the cover is resistant to oil and ozone. The hose is available in multiple incremental sizes for connection to various sizes of pipe used in the marine industry.

NOTES:
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.
- Do not use in applications requiring low-permeation fuel feed hose (SAE J1527 A1-15).

Tube: Black nitrile
Reinforcement: Multiple textile plies with dual wire helix
Cover: Black chloroprene; wrapped finish
Temp. Range: -20°F to +212°F (-29°C to +100°C)
Brand Method: Black text on yellow stripe
Brand Example: PARKER SERIES SW569 ARMADA (ID) MARINE FUEL/WET EXHAUST HOSE XX PSI WP
Design Factor: 4:1
Industry Standards: ABYC H-24; NMMA; SAE J1527 A1 and A2 Style R2; SAE J1942 Codes F, VW, NVW; SAE J2006 R2; SAE J20R2 B; SAE J20R4 B; SAE J20R5 B; SAE J30R5; ISO 7840:2004 A2; ISO 8469 B1; USCG

Applications:
- Biodiesel (to B100 in dedicated service), diesel, ethanol, gasoline, oil
- Hot exhaust fumes, nonpotable water
- Marine coolant and fuel/vent systems,wet exhaust

Vacuum: 29" Hg (737 mm Hg)
Compare to: Thermoid 7910 Bellowsflex A

(Continued on the following page)

⚠WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Series SW569 – ARMADA® Marine Multipurpose, Fuel Fill / Vent and Hardwall Wet Exhaust Hose *(Continued)*

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
SW569-500	1/2	12.7	2	0.9	22.6	0.29	0.43	2	38	75	5	*	50	Coil
SW569-625	5/8	15.9	2	1.0	26.4	0.37	0.55	2	38	75	5	*	50	Coil
SW569-750	3/4	19.1	2	1.2	29.4	0.42	0.63	2	38	75	5	*	50	Coil
SW569-1000	1	25.4	2	1.4	35.8	0.53	0.79	2	51	75	5	*	50	Coil
SW569-1125	1-1/8	28.6	2	1.6	39.6	0.62	0.92	3	64	75	5	*	50	Coil
SW569-1250	1-1/4	31.8	2	1.7	42.2	0.64	0.95	3	64	75	5	*	50	Coil
SW569-1500	1-1/2	38.1	2	1.9	48.4	0.78	1.16	3	76	50	3	*	50	Coil
SW569-1625	1-5/8	41.3	2	2.0	51.9	0.87	1.30	4	89	50	3	*	50	Coil
SW569-1750	1-3/4	44.5	2	2.2	55.4	0.96	1.43	4	89	50	3	*	50	Coil
SW569-1875	1-7/8	47.6	2	2.4	59.8	1.14	1.70	4	102	50	3	*	50	Coil
SW569-2000	2	50.8	2	2.5	63.0	1.18	1.76	5	114	50	3	*	50	Coil
SW569-2250	2-1/4	57.2	2	2.7	67.6	1.33	1.98	5	114	50	3	*	50	Coil
SW569-2375	2-3/8	60.3	2	2.8	71.9	1.40	2.09	6	152	50	3	*	50	Coil
SW569-2500	2-1/2	63.5	2	2.9	73.3	1.41	2.10	7	178	50	3	*	50	Coil
SW569-3000	3	76.2	2	3.5	87.8	1.74	2.59	9	229	40	3	*	50	Coil
SW569-3500	3-1/2	88.9	2	4.0	101.2	2.13	3.17	10	254	40	3	*	50	Coil
SW569-4000	4	101.6	2	4.5	114.4	2.50	3.73	12	305	40	3	*	25	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Marine Softwall Wet Exhaust Hose

Series SS269

view on web page

Series SS269 hose is easier to install and absorbs more vibration than rigid pipe or tubing. The cover is resistant to oil and ozone, and is available in multiple incremental sizes for connection to various sizes of pipe used in the marine industry.

NOTE: Do not use with refined oil or fuel, or in suction applications.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
SS269-1000	1	25.4	2	1.4	36.6	0.45	0.20	200	14	*	50	Coil
SS269-1250	1-1/4	31.8	2	1.8	45.4	0.71	0.32	200	14	*	50	Coil
SS269-1500	1-1/2	38.1	2	2.0	51.7	0.81	0.37	200	14	*	50	Coil
SS269-1625	1-5/8	41.3	2	2.2	55.6	0.90	0.41	200	14	*	50	Coil
SS269-1750	1-3/4	44.5	2	2.3	58.0	0.91	0.41	200	14	*	50	Coil
SS269-1875	1-7/8	47.6	2	2.4	61.2	0.96	0.44	200	14	*	50	Coil
SS269-2000	2	50.8	4	2.6	65.2	1.11	0.50	200	14	*	50	Coil
SS269-2250	2-1/4	57.2	4	2.8	71.6	1.24	0.56	200	14	*	25	Coil
SS269-2375	2-3/8	60.3	4	3.0	75.3	1.33	0.60	200	14	*	25	Coil
SS269-2625	2-5/8	66.7	4	3.2	81.3	1.43	0.65	200	14	*	25	Coil
SS269-2750	2-3/4	69.9	4	3.3	84.0	1.45	0.66	200	14	*	25	Coil
SS269-2875	2-7/8	66.7	4	3.4	87.0	1.46	0.66	200	14	*	25	Coil
SS269-3000	3	76.2	4	3.7	93.0	1.83	0.83	200	14	*	25	Coil
SS269-3500	3-1/2	88.9	4	4.1	105.3	2.08	0.94	200	14	*	25	Coil
SS269-4000	4	101.6	4	4.6	117.6	2.32	1.05	200	14	*	25	Coil
SS269-4500	4-1/2	114.3	4	5.1	130.7	2.55	1.16	200	14	*	25	Coil
SS269-5000	5	127.0	6	5.9	148.6	3.69	1.68	200	14	*	25	Coil
SS269-5562	5-9/16	141.3	6	6.4	162.8	4.09	1.86	200	14	*	25	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies
Cover: Black nitrile; wrapped finish
Temp. Range: -40°F to +200°F (-40°C to +93°C)
Brand Method: Black text on blue stripe
Brand Example: PARKER SERIES SS269 (ID) SOFTWALL MARINE WET EXHAUST HOSE XXX PSI WP U.S.C.G. TYPE SAE J2006R1 MEETS STANDARDS FOR ABYC

Design Factor: 4:1
Industry Standards: ABYC; USCG; SAE J2006R1
Applications:
- Hot exhaust fumes; oil, nonpotable water
- Marine coolant systems, wet exhaust

Vacuum: Not recommended

⚠WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

WAVEMASTER™
Marine Barrier Fuel Line / Vent Hose
Series 7165

view on web page

Series 7165 hose incorporates a thermoplastic barrier to resist fuel permeation and the cover is resistant to abrasion, oil and weathering. The hose is flexible for easy routing in engine compartments and used as a feed line to fuel tanks where liquid fuel is continuously in the hose under normal conditions.

NOTE: Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7165-25250	1/4	6.3	2	0.5	13.6	0.11	0.16	3	64	100	7	*	250	Reel
7165-31250	5/16	7.9	2	0.6	15.5	0.13	0.19	3	64	100	7	*	250	Reel
7165-38250	3/8	9.5	2	0.7	17.3	0.16	0.24	3	64	100	7	*	250	Reel
7165-50250	1/2	12.7	2	0.8	20.9	0.20	0.30	5	114	100	7	*	250	Reel
7165-63250	5/8	16.0	2	1.0	25.4	0.30	0.45	5	114	75	5	*	250	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Translucent Nylon
Reinforcement: Multiple textile plies
Cover: Black nitrile/PVC; smooth finish
Temp. Range: -20°F to +212°F (-29°C to +100°C)
Brand Method: Side One: White ink
Side Two: Solid red stripe
Brand Example: PARKER SERIES 7165 WAVEMASTER MARINE FUEL HOSE – EPA COMPLIANT – (x)9PKHPLINE165 – SAE J1527 USCG TYPE A1-15 ISO 7840 A1 CE NMMA TYPE ACCEPTED (ID) PH USE WITH ABYC COMPLIANT SYSTEMS AND FITTINGS ONLY

NOTE: (x) changes every year
Design Factor: 4:1
Industry Standards: ABYC, CARB, CE, EPA, ISO 7840 A1, NMMA, SAE J1527 A1-15, USCG A1
Applications:
- Biodiesel (to B100 in dedicated and non-dedicated service), diesel, ethanol, gasoline, oil
- Marine fuel/vent systems

Vacuum: Not recommended
Compare to: ContiTech Marine Fuel Line Flexshield
Couplings: ABYC compliant

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Server Blade Hose

Series 629

view on web page

The 629 Server Blade Hose, is designed to be utilized for the transfer of coolant solutions in direct liquid cooling servers in data center rack manifolds. The tube is a specially formulated peroxide cured EPDM for robust sealing properties and fluid purity of multiple industry coolants.

The 629 Server Blade Hose, is part of Parker Hannifin's thermal cooling product line. This highly engineered construction offers greater flexibility and a reduced O.D. for transferring coolant in direct-to-chip liquid cooling server blade applications. The hose tube is uniquely designed with a proprietary compounded EPDM, which is peroxide cured to increase fluid purity, thermal resistance, and enhanced sealing properties required by a high-performing system. The 629 hose features a cover designed for performance with flame and ozone resistance.

Part Number	Hose I.D.		Hose O.D.		Weight		Minimum Bend Radius		Working Pressure		Vacuum Rating		Series Cplg	Nom Std Pack Qty	Pkg Type
	(in)	(mm)	(in)	(mm)	lbs/ft	kg/m	(in)	(mm)	(psi)	(bar)	in (HG)	(kPa)	Rec	(ft)	
629-3.5-RL	0.21	5.3	0.38	9.7	150	10.3	0.6	16.0	150	10.3	28	95	N/A	500	Reel
629-4-RL	0.25	6.4	0.44	11.2	150	10.3	0.8	19.1	150	10.3	28	95	N/A	600	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM, peroxide cured
Reinforcement: One fiber braid
Cover: Black Synthetic Rubber; smooth finish
Temperature Range: -40°F to +212°F (-40°C to +100°C)
Brand Method: White ink
Brand Example: Parker 629-4 HOSE EPDM-P WP 1MPa (150 psi) 6,4mm (1/4") UL94 V-0 HOSE COVER MADE IN USA

Design Factor: 4:1
Industry Standards: UL94 V-0 Flame Resistance Rating
Application: DI water and glycol-based coolant solutions
Couplings: Designed to be used on hose barb and clamped

This product is only available to full line Parker distributors.

⚠WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Renewable Diesel Fuel Hose

Series 650

view on web page

The 650 series fuel hose is the "one hose to do it all" fuel line. It can be used in a variety of fuel line applications that transfer gasoline, diesel, or biodiesel from the fuel tank to the engine circuit. Parker has simplified the choices for our customers of which hose fits the required specification, the 650 series has you covered for almost all your fuel line requirements.

Part Number	Hose I.D. (in)	Hose I.D. (mm)	Reinf Plies	Hose O.D. (in)	Hose O.D. (mm)	Weight lbs/ft	Weight kg/m	Minimum Bend Radius (in)	Minimum Bend Radius (mm)	Working Pressure (psi)	Working Pressure (bar)	Std Pack Qty	Coupling HY Series	J2044 Specs
650-3-RL	3/16	4.8	2	0.41	10.3	0.07	0.11	1.25	32	500	34.5	250 ft	•	
650-4-RL	1/4	6.4	2	0.50	12.7	0.09	0.13	1.50	38	400	27.6	250 ft	•	
650-5-RL	5/16	7.9	2	0.56	14.3	0.10	0.15	2.00	51	400	27.6	250 ft	•	•
650-6-RL	3/8	9.5	2	0.63	15.9	0.14	0.20	2.50	64	400	27.6	250 ft	•	•
650-8-RL	1/2	12.7	2	0.78	19.8	0.21	0.31	4.00	102	400	27.6	250 ft	•	•
650-10-RL	5/8	15.9	2	0.94	23.8	0.23	0.34	5.00	127	350	24.1	250 ft	•	•
650-12-RL	3/4	19.1	2	1.13	28.6	0.34	0.50	7.00	180	300	20.7	250 ft	•	•

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black synthetic rubber
Reinforcement: Multiple aramid plies
Cover: Black synthetic rubber
Temperature Range: -40°F to +257°F (-40°C to +125°C)
Brand Method: White ink
Brand Example: Parker 650-6 SAE 30R7 & PERFORMANCE OF SAE 30R2 TYPE 3/SAE30R: WP 2,8 MPA (400 F 397/5139/5155/ 1 RENEWABLE DIESEL FUEL TO B100; 10,0MM (3/8); MADE IN USA

Design Factor: 5:1
Industry Standards: SAE J30R7, meets performance of 30R2 Type 1, 2 and 3, 30R3, and 30R13 (portions of T1 and T3)
Application: Fuel lines on equipment utilizing gasoline, diesel or biodiesel up to B100 including HVO, SME and PME renewable fuels
Vacuum: 24" Hg (3/16" thru 3/8" ID); 10" Hg (1/2" thru 3/4" ID)
Packaging: Reels

⚠WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

PUREFood
7640

view on web page

Series 7640 is a high-quality and flexible delivery and suction hose. This series is designed to convey cooking oils and fat, dairy products, and oily sauces. Tube materials consist of premium nitrile (NBR). We offer multiple cover options to fit you applications individual needs.

Part Number	Hose ID		Hose OD		Vacuum		Max. Working Pressure		Min. Burst Pressure		Weight		Bend Radius	
	in	mm	in	mm	in of Hg	kPa	psi	bar	psi	bar	lbs/ft	kg/m	in	mm
7640-1000	1	25.4	1.46	37	26.5	90	150	10	450	30	0.61	0.91	3.35	85
7640-1500	1.5	38	2	51	26.5	90	150	10	450	30	0.94	1.40	5.91	150
7640-2000	2	51	2.52	64	26.5	90	150	10	450	30	1.21	1.80	8.27	210
7640-3000	3	76	3.58	91	26.5	90	150	10	450	30	2.12	3.17	12.60	320
7640-4000	4	102	4.65	118	26.5	90	150	10	450	30	2.96	4.42	16.93	430

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

All PUREFood hoses comply with the following standards: FDA, BFR, DM 21/03/1973, 3A, MHLW 1959-2006, PHTHALATES REACH FREE, CE 1935/2004, GMP CE 2023/2006

Tube: White Nitrile, phthalates free
Temperature: -13°F / +176°F (-25°C / +80°C)
Reinforcement: Synthetic plies, galvanized wire helices
Cover: Blue EPDM, Smooth wrapped finish
PURE Aging, ozone resistant

Sterilization: Refer to Parker's guidelines for cleaning and sanitizing
ISO 1307: For dimensional tolerances
Applications: Cooking oils & fat, dairy products, oily sauces

PUREFood
7640P

view on web page

Series 7640P is a high-quality and flexible delivery and suction hose. This series is designed to convey cooking oils and fat, dairy products, and oily sauces. Tube materials consist of premium nitrile (NBR). We offer multiple cover options to fit you applications individual needs.

# Part Number	Hose ID		Hose OD		Vacuum		Max. Working Pressure		Min. Burst Pressure		Weight		Bend Radius	
	in	mm	in	mm	in of Hg	kPa	psi	bar	psi	bar	lbs/ft	kg/m	in	mm
7640P-1000	1	25.4	1.46	37	26.5	90	150	10	450	30	0.54	0.81	2.76	70
7640P-1500	1.5	38	2.03	51.5	26.5	90	150	10	450	30	0.82	1.23	3.15	80
7640P-2000	2	51	2.52	66	26.5	90	150	10	450	30	1.27	1.90	3.94	100
7640P-3000	3	76	3.62	91	26.5	90	150	10	450	30	1.95	2.91	5.91	150

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

All PUREFood hoses comply with the following standards: FDA BFR DM 21/03/1973 EX MHLW 1959-2006 PHTHALATES REACH FREE GMP CE 2023/2006

Tube: White Nitrile, phthalates free
Temperature: -13°F / +176°F (-25°C / +80°C)
Reinforcement: Synthetic plies, galvanized wire helices
Cover: Blue EPDM, Corrugated Low friction, non-marking, UHMWPE, Smooth wrapped finish. Abrasion, aging, ozone resistant

Sterilization: Refer to Parker's guidelines for cleaning and sanitizing.
ISO 1307: For dimensional tolerances.
Applications: Cooking oils & fat, dairy products, oily sauces

PUREBev
7630

view on web page

Series 7630 is a high-quality, low permeation, flexible delivery and suction hose. This series is designed to convey alcohol/spirits (concentration up to 96%), beer, wine, potable water and many other food and beverage applications. Tube materials consist of premium Butyl. We offer multiple cover options including corrugated and crush resistant options to fit your applications and individual needs.

Part Number	Hose ID		Hose OD		Vacuum		Max. Working Pressure		Min. Burst Pressure		Weight		Bend Radius	
	in	mm	in	mm	in of Hg	kPa	psi	bar	psi	bar	lbs/ft	kg/m	in	mm
7630-1000	1	25	1.5	40	26.5	90	250	16	750	48	0.69	1.03	3.94	100
7630-1500	1.5	38	2.09	53	26.5	90	250	16	750	48	1.01	1.51	6.10	155
7630-2000	2	51	2.6	66	26.5	90	250	16	750	48	1.31	1.96	8.46	215
7630-2500	2.5	63.5	3.19	81	26.5	90	250	16	750	48	2.02	3.02	10.83	275
7630-3000	3	76	3.7	94	26.5	90	250	16	750	48	2.63	3.92	12.99	330
7630-4000	4	102	4.72	120	26.5	90	250	16	750	48	3.52	5.26	17.72	450

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

All PUREBev hoses comply with the following standards: FDA, CE 1935/2004, DM 21/03/1973, 3A, MHLW 1959-2006, PHTHALATES REACH FREE, GMP CE 2023/2006

Tube: White Butyl, phthalates free
Temperature: -40°F / +248°F (-40°C / +120°C)
Reinforcement: Synthetic plies, galvanized wire helices
Cover: Red EPDM, Smooth wrapped finish, ozone, aging PURE resistant

Sterilization: Refer to Parker's guidelines for cleaning and sanitizing
ISO 1307: For dimensional tolerances
Applications: Beer, wine and consumable liquids

PUREBev
7630P

view on web page

Series 7630P is a high-quality, low permeation, flexible delivery and suction hose. This series is designed to convey alcohol/spirits (concentration up to 96%), beer, wine, potable water and many other food and beverage applications. Tube materials consist of premium Butyl. We offer multiple cover options including corrugated and crush resistant options to fit your applications and individual needs.

#	Hose ID		Hose OD		Vacuum		Max. Working Pressure		Min. Burst Pressure		Weight		Bend Radius	
Part Number	in	mm	in	mm	in of Hg	kPa	psi	bar	psi	bar	lbs/ft	kg/m	in	mm
7630P-1000	1	25.4	1.5	38	26.5	90	250	16	900	60	0.61	0.91	4.13	105
7630P-1500	1.5	38	2.07	52.5	26.5	90	250	16	900	60	0.92	1.38	4.72	120
7630P-2000	2	51	2.64	67	26.5	90	250	16	900	60	1.48	2.21	5.91	150
7630P-2500	2.5	63.5	3.17	80.5	26.5	90	250	16	900	60	1.87	2.79	7.68	195
7630P-3000	3	76	3.7	94	26.5	90	250	16	900	60	2.35	3.51	8.86	225

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

All PUREBev hoses comply with the following standards: FDA, CE 1935/2004, DM 21/03/1973, 3A, MHLW 1959-2006, PHTHALATES REACH FREE, GMP CE 2023/2006

Tube: White Butyl, phthalates free
Temperature: -40°F / +248°F (-40°C / +120°C)
Reinforcement: Synthetic plies, galvanized wire helices
Cover: Red EPDM Corrugated, wrapped finish with UHMWPE anti-friction layer.
Abrasion, aging, ozone resistant

Sterilization: Refer to Parker's guidelines for cleaning and sanitizing.
ISO 1307: For dimensional tolerances.
Applications: Beer, wine and consumable liquids

PUREBev
7630PL

view on web page

Series 7630PL is a high-quality, low permeation, flexible delivery and suction hose. This series is designed to convey alcohol/spirits (concentration up to 96%), beer, wine, potable water and many other food and beverage applications. Tube materials consist of premium Butyl. We offer multiple cover options including corrugated and crush resistant options to fit your applications and individual needs.

Part Number	Hose ID		Vacuum		Max. Working Pressure		Min. Burst Pressure		Weight		Bend Radius	
	in	mm	in of Hg	kPa	psi	bar	psi	bar	lbs/ft	kg/m	in	mm
7630PL-1500	1.5	38	26.5	90	150	10	450	30	0.94	1.40	3.15	80
7630PL-2000	2	51	26.5	90	150	10	450	30	1.24	1.84	3.94	100
7630PL-2500	2.5	63.5	26.5	90	150	10	450	30	1.48	2.20	5.12	130
7630PL-3000	3	76	26.5	90	150	10	450	30	1.90	2.83	5.91	150
7630PL-4000	4	102	26.5	90	150	10	450	30	2.46	3.66	7.87	200

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

All PUREBev hoses comply with the following standards: FDA, CE 1935/2004, DM 21/03/1973, 3A, MHLW 1959-2006, PHTHALATES REACH FREE, GMP CE 2023/2006

Tube: White Butyl, phthalates free
Temperature: -13°F / +248°F (-25°C / +120°C)
Reinforcement: Synthetic plies, thermoplastic wire helices
Cover: Red EPDM, Red PVC Corrugated.
PLUS Abrasion, aging, ozone, oil resistant

Sterilization: Refer to Parker's guidelines for cleaning and sanitizing
ISO 1307: For dimensional tolerances
Applications: Beer, wine and consumable liquids

Green PVC Banding Coil Series 7630CL

7630CL-1	to be used with 7630PL hose sizes 1.5" – 2.5"
7630CL-2	to be used with 7630PL hose sizes 3" – 4"

All PUREBev hoses comply with the following standards: FDA, CE 1935/2004, DM 21/03/1973, 3A, MHLW 1959-2006, PHTHALATES REACH FREE, GMP CE 2023/2006

PUREWash
7680

view on web page

Series 7680 washdown hose is used in virtually every type of food and beverage processing plant. Sanitation of equipment and work area is critical in packing houses, hot processing plants, breweries, dairies, wineries, and general industrial applications. Cleaning and purification practices require a commitment to preventative maintenance. This in turn extends the life of equipment and produtivity.

Additional Features include:

- FDA compliant tube (not to be used in food contact/transfer)
- Enhanced printed layline
- Non-marking covers
- Additional blue cover in product offering for a cleaner look
- Compatible with Parkrimp crimpers or variable crimpers.

Please refer to Crimpsource for specifications.

Part Number	Hose ID		Reinf Plies	Hose OD		Approximate Weight		Minimum Bend Radius		Maximum Rec WP		Per Cplg Rec	Std Pack Qty
	in	mm		in	mm	lbs/ft	kg/m	in	mm	psi	bar		ft
7680-8-WHT-RL	.50	12.7	4	0.875	22.2	0.25	0.11	5	127	300	20.7	HY	500
7680-8-BLU-RL	.50	12.7	4	0.875	22.2	0.25	0.11	5	127	300	20.7	HY	500
7680-12-WHT-RL	.75	19.1	4	1.156	29.4	0.37	0.17	6	152	300	20.7	HY	400
7680-12-WHT-BX	.75	19.1	4	1.156	29.4	0.38	0.17	6	152	300	20.7	HY	50
7680-12-BLU-RL	.75	19.1	4	1.156	29.4	0.38	0.17	6	152	300	20.7	HY	400
7680-12-BLU-BX	.75	19.1	4	1.156	29.4	0.38	0.17	6	152	300	20.7	HY	50
7680-16-WHT-RL	1	25.4	4	1.438	36.5	0.52	0.24	8	203	300	20.7	HY	300
7680-16-BLU-RL	1	25.4	4	1.438	36.5	0.53	0.24	8	203	300	20.7	HY	300

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: White EPDM; FDA Compliant
Temperature: -40°F / +212°F (-40°C / +100°C)
Reinforcement: Multiple textile plies
Cover: White (WHT) or Blue (BLU) EPDM; smooth finish

Sterilization: Refer to Parker's guidelines for cleaning and sanitizing
Applications: Food & beverage processing plants, equipment sanitation, preventative maintenance

PUREWash
High Pressure Washdown Hose
7685

view on web page

Series 7685 high pressure washdown hose is used in most food and beverage processing plants. Sanitation of equipment and work area is critical in poultry processing facilities, packing houses, breweries, dairies, wineries, and general industrial applications. The non-marking cover is resistant to abrasion, heat, and fatty, oily foods.

Cleaning and purification practices require a commitment to preventative maintenance. This in turn extends the life of equipment and productivity. Devoted to developing products to support our customers in these critical applications and to complement our food hose line, Parker has developed a new high pressure PUREWash hose, replacing our existing 7143 hose series.

NOTE: Do not use for steam service.

Other cover colors available.

YL = Yellow

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7685-6GRA-RL 7685-6-YEL-RL	3/8	9.5	4	0.765	19.43	0.21	0.31	4	102	1500	103	HY	500	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM
Temp. Range: -40°F to +250°F (-40°C to +121°C)
Reinforcement: Multiple spiral aramid fiber layers
Cover: Gray (-GRA), Yellow (-YEL) EPDM, smooth finish
PURE

Brand Method: Black ink on gray and yellow hose; white ink on black hose
Design Factor: 3.5:1

Industry Standards: None applicable
Applications:
- Hot water, mild chemicals
- Breweries, dairies, food/poultry processing plants, general industrial

Vacuum: Not recommended
Compare to: Boston Washdown 1250; ContiTech Fortress; Gates Cyclone

FLEX-EVER™ 2000

Hardwall Gasoline Dispenser Hose

Series 7280

view on web page

Series 7280 hardwall construction incorporates a dual wire helix that provides full suction capability, kink resistance, and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, cuts, oil and ozone, and will not mar the finish of a vehicle. Series 7280 is suitable for use with reeling devices or applications where retractable cables are employed.

NOTES:
- The UL symbol in the brand/layline signifies the hose as a "UL Recognized Component" for UL gasoline dispenser hose assemblies.
- Not UL listed for E85 service.
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.
- Refer to the Safety and Technical Information section of this catalog for safety, handling and use information.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7280-632A	5/8	15.9	2	1.0	26.2	0.39	0.58	3	76	50	3	*	500	Reel
7280-752A	3/4	19.1	2	1.2	29.8	0.47	0.70	4	102	50	3	*	500	Reel
7280-1002A	1	25.4	2	1.5	36.9	0.64	0.95	5	127	50	3	*	500	Reel

Couplings: Bulk gasoline dispenser hose couplings are not sold separately by Parker.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile braids with dual wire helix
Cover: Black CPE; wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +82°C)
Brand Method: White ink
Brand Example: PARKER SERIES 7280 FLEX-EVER™ 2000 GASOLINE HOSE UL 655N MH530 PN16 TRbF131T.2
Design Factor: 5:1

Industry Standards: UL330/ULC; NFPA 30A and UL30N4 (factory assemblies)
Applications:
- Biodiesel (to B20 in dedicated service), diesel, ethanol, gasoline, oil
- Gasoline dispensers and pumps

Vacuum: 29" Hg (737 mm Hg)
Compare to: ContiTech BC Gasoline; Gates Curb Pump 124HW

⚠WARNINGS!
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- Do not use Parker gasoline dispenser hose for aircraft fueling applications. Use only API/NFPA qualified hose for aircraft fueling applications.

SUPER-FLEX® 2000
Semi-Hardwall Gasoline Dispenser Hose
Series 7124

view on web page

Series 7124 construction provides superior strength, crush-resistant durability, kink resistance and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, cuts, oil and ozone, and will not mar the finish of a vehicle.

NOTES:
- The symbol in the brand/layline signifies the hose as a "UL Recognized Component" for UL gasoline dispenser hose assemblies.
- Not UL listed for E85 service.
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.
- Refer to the Safety and Technical Information section of this catalog for safety, handling and use information.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7124-631A	5/8	15.9	1	1.0	24.6	0.35	0.52	3	76	50	3	*	500	Reel
7124-751A	3/4	19.1	1	1.1	28.2	0.42	0.63	4	102	50	3	*	500	Reel
7124-1001A	1	25.4	1	1.3	34.0	0.50	0.75	5	127	50	3	*	500	Reel

Couplings: Bulk gasoline dispenser hose couplings are not sold separately by Parker.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: One wire braid
Cover: Black CPE; wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +82°C)
Brand Method: White ink
Brand Example: PARKER SERIES 7124 SUPER-FLEX® 2000 GASOLINE HOSE
655N MH530
Design Factor: 5:1

Industry Standards: UL330/ULC; NFPA 30A and UL30N4 (factory assemblies)
Applications:
- Biodiesel (to B20 in dedicated service), diesel, ethanol, gasoline, oil
- Gasoline dispensers and pumps

Vacuum: Not recommended
Compare to: ContiTech Flexsteel Hardwall; Thermoid Pumpflex II Hardwall

⚠WARNINGS!
- **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**
- **Do not use Parker gasoline dispenser hose for aircraft fueling applications. Use only API/NFPA qualified hose for aircraft fueling applications.**

SOFT-FLEX™ 2000

Softwall Gasoline Dispenser Hose

Series 7114

view on web page

Series 7114 softwall construction incorporates multiple textile plies of reinforcement for flexibility and kink resistance, and a static wire as a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, cuts, oil and ozone, and will not mar the finish of a vehicle.

NOTES:
- The symbol in the brand/layline signifies the hose as a "UL Recognized Component" for UL gasoline dispenser hose assemblies.
- Not UL listed for E85 service.
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.
- Refer to the Safety and Technical Information section of this catalog for safety, handling and use information.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7114-63154A	5/8	15.9	4	1.0	24.4	0.27	0.40	5	127	50	3	*	475	Reel
7114-75154A	3/4	19.1	4	1.1	27.9	0.34	0.51	6	152	50	3	*	350	Reel
7114-100154A	1	25.4	4	1.4	35.3	0.47	0.70	8	203	50	3	*	250	Reel

Couplings: Bulk gasoline dispenser hose couplings are not sold separately by Parker.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies with static wire
Cover: Black CPE; smooth finish
Temp. Range: -40°F to +180°F (-40°C to +82°C)
Brand Method: White ink
Brand Example: PARKER SERIES 7114 SOFT-FLEX™ 2000 GASOLINE HOSE 4SP 655N MH530
Design Factor: 5:1

Industry Standards: UL330/ULC; NFPA 30A and UL30N4 (factory assemblies)

Applications:
- Biodiesel (to B20 in dedicated service), diesel, ethanol, gasoline, oil
- Gasoline dispensers and pumps

Vacuum: Not recommended
Compare to: ContiTech Pacer; Thermoid Pumpflex I Softwall

⚠WARNINGS!
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- Do not use Parker gasoline dispenser hose for aircraft fueling applications. Use only API/NFPA qualified hose for aircraft fueling applications.

Farm Pump / Gravity Tank Fuel Hose

Static Wire

Not UL Listed

Series 7175

view on web page

Series 7175 softwall construction incorporates multiple textile plies of reinforcement for flexibility and a static wire as a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, oil and ozone.

NOTES:
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.
- Refer to the Safety and Technical Information section of this catalog for safety, handling and use information.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7175-75052	3/4	19.1	2	1.1	28.2	0.35	0.52	5	127	50	3	*	400	Reel
7175-100052	1	25.4	2	1.4	35.3	0.48	0.72	8	203	50	3	*	300	Reel

Couplings: Bulk farm pump hose couplings are not sold separately by Parker.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies with static wire
Cover: Black chloroprene; smooth finish
Temp. Range: -40°F to +180°F (-40°C to +82°C)
Brand Method: White ink
Brand Example: PARKER SERIES 7175 FARM PUMP HOSE W/STATIC WIRE (ID) XX PSI MAX WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- Biodiesel (to B20 in dedicated service), diesel, ethanol, gasoline, oil
- Gravity tanks, hand pumps, powered pumps
- Agriculture

Vacuum: Not recommended
Compare to: Thermoid Premier Farm Tank

⚠ WARNINGS!
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- Do not use Parker farm pump hose for aircraft fueling or service station applications. Use only API/NFPA qualified hose for aircraft fueling applications. Use only UL330 listed hose for service station applications.

LP Gas Hose

Series 7132

view on web page

Series 7132 is a flexible, lightweight liquefied petroleum gas (LPG)/ propane delivery and transfer hose. The hose meets all Underwriters Laboratories (UL21) and Canadian Standards Association (CSA Type I) requirements. The construction incorporates multiple textile plies of reinforcement for flexibility and kink resistance. The perforated cover is resistant to mild chemicals, oil and ozone.

NOTE: Refer to the Safety and Technical Information section of this catalog for safety, handling and use information.

Series 7132 and DOT: LPG hose assemblies installed on on-road vehicles must meet Department of Transportation (DOT) requirements. Factory assemblies (3/4" and larger) are pressure tested, one of the fittings is etched with a unique DOT certification number, and a document incorporating the identical certification number accompanies each assembly. Metal DOT identification bands are also available/ attached for an additional charge at customer request.

Series 7132 and Natural Gas: Series 7132 may be used for natural gas service, but ONLY under ALL of the following conditions:

1) The application must be in a well-ventilated environment: Outdoors, or indoors with significant continuous air movement.
2) Series 7132 is not to replace fixed/rigid pipe where that material is more appropriate due to reduced permeation and overall strength and durability. Use rigid pipe, non-permeable tubing or hose with barrier constructions to convey natural gas whenever possible.

Series 7132 and Compressed Natural Gas (CNG): Series 7132 is not for use in any CNG application, including fuel dispensing, on-board vehicle fuel lines, or fuel transfer.

Series 7132 and Anhydrous Ammonia (NH_3): Series 7132 is not for use with anhydrous ammonia.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies
Cover: Black chloroprene; perforated smooth finish
Temp. Range: -40°F to +180°F (-40°C to +82°C) (The hose construction is capable of this rating, but LP Gas should NEVER be conveyed over 140°F/60°C)
Brand Method: Impression
Brand Example: PARKER SERIES 7132 (ID) CSA® 8.1 TYPE I CAUTION - LP GAS HOSE MH6737 C UR® US ISSUE NO. XXXXX 350 PSI MAX WP
Design Factor: 5:1
Industry Standards: UL21; CSA 8.1 Type I; optional DOT factory hose assembly testing and marking also available for sizes smaller than 3/4". Contact Parker.

Applications:
- LP gas/propane
- Cookers, grills, heaters, weed burners; delivery, transfer
- Agriculture, commercial and residential heating, construction, general industrial

Vacuum: Not recommended
Compare to: Boston Blackline (LPG); Gates LP350; Thermoid Type 75

(Continued on the following page)

⚠WARNINGS!
- **Use only with couplings qualified by Parker. Do not use with male swivel couplings or other couplings containing o-rings, which may dry out, crack and fail over time.**
- **When using this product in a mobile application such as delivery or service vehicles, the inspection procedures detailed in DOT regulation 49CFR 180.416 must be strictly adhered to.**

Series 7132 – LP Gas Hose *(Continued)*

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7132-25354	1/4	6.4	4	0.6	15.5	0.15	0.22	3	64	350	24	*	750	Reel
7132-25354E													350	Reel
7132-38354	3/8	9.5	4	0.8	19.1	0.22	0.33	4	89	350	24	HY	600	Reel
7132-38354E													300	Reel
7132-50354	1/2	12.7	4	0.9	23.8	0.32	0.48	5	114	350	24	*	500	Reel
7132-75354	3/4	19.1	4	1.3	31.8	0.50	0.75	7	165	350	24	HY	350	Reel
7132-75354100													2 x 100	Carton
7132-75354150													1 x 150	Carton
7132-75354200													1 x 200	Carton
7132-100354	1	25.4	4	1.5	38.1	0.63	0.94	8	191	350	24	*	300	Reel
7132-100354100													100	Carton
7132-100354150													1 x 150	Carton
7132-100354200													200	Reel

NOTE: "E" reel part numbers are UPS-able.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

X-TREME™
Low Temperature LP Gas Hose
Series 7132XTC

view on web page

Series 7132XTC is a flexible, lightweight, low temperature liquefied petroleum gas (LPG)/propane delivery and transfer hose. The hose meets all Underwriters Laboratories (UL21) and Canadian Standards Association (CSA Type I) requirements. The construction stays flexible to -65°F (-53°C) and incorporates multiple textile plies of reinforcement for flexibility and kink resistance. The perforated cover is resistant to mild chemicals, oil and ozone.

NOTE: Refer to the Safety and Technical Information section of this catalog for safety, handling and use information.

Series 7132XTC and DOT: LPG hose assemblies installed on on-road vehicles must meet Department of Transportation (DOT) requirements. Factory assemblies (3/4" and larger) are pressure tested, one of the fittings is etched with a unique DOT certification number, and a document incorporating the identical certification number accompanies each shipment. Metal DOT identification bands are also attached at an additional charge per customer request.

Series 7132XTC and Natural Gas: Series 7132XTC may be used for natural gas service, but ONLY under ALL of the following conditions:

1) The application must be in a well-ventilated environment: Outdoors, or indoors with significant continuous air movement.
2) Series 7132XTC is not to replace fixed/rigid pipe where that material is more appropriate due to reduced permeation and overall strength and durability. Use rigid pipe, non-permeable tubing or hose with barrier constructions to convey natural gas whenever possible.

Series 7132XTC and Compressed Natural Gas (CNG): Series 7132XTC is not for use in any CNG application, including fuel dispensing, on-board vehicle fuel lines, or fuel transfer.

Series 7132XTC and Anhydrous Ammonia (NH_3): Series 7132XTC is not for use with anhydrous ammonia.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies
Cover: Black chloroprene; perforated smooth finish
Temp. Range: -65°F to +180°F (-53°C to +82°C) (The hose construction is capable of this rating, but LP Gas should NEVER be conveyed over 140°F/60°C)
Brand Method: Impression
Brand Example: PARKER SERIES 7132XTC X-TREME CSA 8.1 TYPE I CAUTION - LP GAS HOSE (-65°F) MH6737 C U Я® US ISSUE NO. XXXXX 350 PSI MAX WP
Design Factor: 5:1

Industry Standards: UL21; CSA 8.1 Type I; optional DOT factory hose assembly testing and marking also available for sizes smaller than 3/4". Contact Parker.

Applications:
- LP gas/propane
- Low temperature delivery, transfer
- Agriculture, commercial and residential heating, construction, general industrial

Vacuum: Not recommended
Compare to: Thermoid Polarflex

(Continued on the following page)

⚠WARNINGS!
- **Use only with couplings qualified by Parker. Do not use with male swivel couplings or other couplings containing o-rings, which may dry out, crack and fail over time.**
- **When using this product in a mobile application such as delivery or service vehicles, the inspection procedures detailed in DOT regulation 49CFR 180.416 must be strictly adhered to.**

Series 7132XTC – X-TREME™ Low Temperature LP Gas Hose *(Continued)*

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7132XTC-1000125	1	25.4	4	1.5	38.1	0.63	0.94	8	191	350	24	*	1 x 125	Carton
7132XTC-1000150	1	25.4	4	1.5	38.1	0.63	0.94	8	191	350	24	*	1 x 150	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

LP Gas Hose

Series 7232

view on web page

Series 7232 is a large diameter, flexible liquified petroleum gas (LPG)/propane transfer hose for large volume bulk loading/unloading and vibration-resistant onboard vehicle connections. The hose meets all Underwriters Laboratories (UL21) and Canadian Standards Association (CSA Type I) requirements. The construction incorporates multiple braids or plies of textile reinforcement for kink resistance and superior coupling retention. The perforated cover is resistant to mild chemicals, oil and ozone.

NOTE: Refer to the Safety and Technical Information section of this catalog for safety, handling and use information.

Series 7232 and DOT: LPG hose assemblies installed on on-road vehicles must meet Department of Transportation (DOT) requirements. Factory assemblies (all sizes) are pressure tested, one of the fittings is etched with a unique DOT certification number, and a document incorporating the identical certification number accompanies each assembly. Metal DOT identification bands are also available/attached for an additional charge at customer request.

Series 7232 and Natural Gas: Series 7232 may be used for natural gas service, but ONLY under ALL of the following conditions:

1) The application must be in a well-ventilated environment: Outdoors, or indoors with significant continuous air movement.
2) Series 7232 is not to replace fixed/rigid pipe where that material is more appropriate due to reduced permeation and overall strength and durability. Use rigid pipe, non-permeable tubing or hose with barrier constructions to convey natural gas whenever possible.

Series 7232 and Compressed Natural Gas (CNG): Series 7232 is not to be used for any CNG application, including fuel dispensing, on-board vehicle fuel lines, or fuel transfer.

Series 7232 and Anhydrous Ammonia (NH_3): Series 7232 is not for use with anhydrous ammonia.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile braids
Cover: Black chloroprene; perforated wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +82°C) (The hose construction is capable of this rating, but LP Gas should NEVER be conveyed over 140°F/60°C)
Brand Method: Side one: Embossed
Side two: Black text on yellow stripe
Brand Example: Side one (Embossed): PARKER SERIES 7232 CSA 8.1 TYPE I CAUTION - LP GAS HOSE MH6737 C U Я® US ISSUE NO. XXXX 350 PSI MAX WP
Side two (Stripe): PARKER LP GAS HOSE

Design Factor: 5:1
Industry Standards: UL21; CSA 8.1 Type I; optional DOT factory hose assembly testing and marking also available. Contact Parker.

Applications:

- LP gas/propane
- Bulk loading/unloading, in-plant tank transfer, transport
- Agriculture, commercial and residential heating, construction, general industrial

Vacuum: Not recommended
Compare to: Boston Blackline (LPG); Gates LP350; Thermoid Type 65

(Continued on the following page)

⚠WARNINGS!

- **Use only with couplings qualified by Parker. Do not use with male swivel couplings or other couplings containing o-rings, which may dry out, crack and fail over time.**
- **When using this product in a mobile application such as delivery or service vehicles, the inspection procedures detailed in DOT regulation 49CFR 180.416 must be strictly adhered to.**

Series 7232 – LP Gas Hose *(Continued)*

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7232-1252	1-1/4	31.8	2	1.8	46.1	0.85	1.27	12	305	350	24	HY	300	Reel
7232-1252100												HY	100	Carton
7232-1503K	1-1/2	38.1	2	2.2	54.8	1.12	1.67	14	356	350	24	43	150	Carton
7232-2003K	2	50.8	4	2.8	69.9	1.90	2.83	16	406	350	24	LA	150	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

LP Gas Hose
Stainless Steel Reinforced
Series 7231

view on web page

Series 7231 is a large diameter, extremely durable liquefied petroleum gas (LPG)/propane transfer hose for bulk loading/unloading and vibration-resistant onboard vehicle connections. The hose meets all Underwriters Laboratories (UL21) and Canadian Standards Association (CSA Type I) requirements. The construction incorporates high tensile corrosion resistant stainless steel braided reinforcement for superior strength, durability and kink resistance. The perforated cover is resistant to mild chemicals, oil and ozone.

NOTE: Refer to the Safety and Technical Information section of this catalog for safety, handling and use information.

Series 7231 and DOT: LPG hose assemblies installed on on-road vehicles must meet Department of Transportation (DOT) requirements. Factory assemblies (all sizes) are pressure tested, one of the fittings is etched with a unique DOT certification number, and a document incorporating the identical certification number accompanies each assembly. Metal DOT identification bands are also available/attached for an additional charge at customer request.

Series 7231 and Natural Gas: Series 7231 may be used for natural gas service, but ONLY under ALL of the following conditions:

1) The application must be in a well-ventilated environment: Outdoors, or indoors with significant continuous air movement.
2) Series 7231 is not to replace fixed/rigid pipe where that material is more appropriate due to reduced permeation and overall strength and durability. Use rigid pipe, non-permeable tubing or hose with barrier constructions to convey natural gas whenever possible.

Series 7231 and Compressed Natural Gas (CNG): Series 7231 is not to be used for any CNG application, including fuel dispensing, on-board vehicle fuel lines, or fuel transfer.

Series 7231 and Anhydrous Ammonia (NH_3): Series 7231 is not for use with anhydrous ammonia.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource. Refer to the COS-K4 crimper for crimp specs for hose 4" ID and smaller.

#														
Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max Rec. WP (psi)	Max Rec. WP (bar)	Perm Cplg Rec. *	Std Pack Qty (ft)	Stock Status **
7231-1251	1-1/4	31.8	1	1.8	44.5	0.97	1.45	17	419	350	24	43	100	Y
7231-1501K	1-1/2	38.1	1	2.0	50.8	1.12	1.67	20	508	350	24	43,71	150	Y
7231-2002K	2	50.8	2	2.6	66.7	1.87	2.79	26	635	350	24	WC,43, 71, 7661	150	Y

*** Couplings: Refer to Crimpsource at www.crimpsource.com for coupling recommendations and crimp specifications.**

**** Stock: "Y" indcates stocked item; "N" indicates non-stocked item. Stock status subject to change. Contact Parker Customer Service.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: One or multiple stainless steel braids
Cover: Black chloroprene; perforated wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +82°C) (The hose construction is capable of this rating, but LP Gas should NEVER be conveyed over 140°F/60°C)
Brand Method: Black text on blue stripe
Brand Example: PARKER SERIES 7231 CGA TYPE I CAUTION - LP GAS HOSE MH6737 C UR® US ISSUE NO.XXXX 350 PSI MAX WP
Design Factor: 5:1

Industry Standards: UL21; CSA 8.1 Type I; optional DOT factory hose assembly testing and marking also available. Contact Parker.
Applications:
- LP gas/propane
- Bulk loading/unloading; in-plant tank transfer
- Petrochemical refineries

Vacuum: Not recommended
Packaging: Cartons

⚠WARNING! Use only with couplings qualified by Parker. Do not use with male swivel couplings or other couplings containing o-rings, which may dry out, crack and fail over time.

LP Gas Vapor Hose

Series 7122

view on web page

Series 7122 is a flexible, lightweight, light duty hose connector for transfer of LP Gas vapor in space heaters for chicken brooders and other light applications. The hose construction incorporates multiple textile plies of reinforcement for flexibility and kink resistance. The perforated cover is resistant to mild chemicals, oil and ozone.

NOTES:
- Do not use to transfer liquid LP gas in gas grill or other applications requiring Underwriters Laboratories (UL) or Canadian Standards Association (CSA) performance or listing.
- Refer to the Safety and Technical Information section of this catalog for safety, handling and use information.

Series 7122 and Natural Gas: Series 7122 may be used for natural gas service, but ONLY under ALL of the following conditions:

1) The application must be in a well-ventilated environment: Outdoors, or indoors with significant continuous air movement.
2) Series 7122 is not to replace fixed/rigid pipe where that material is more appropriate due to reduced permeation and overall strength and durability. Use rigid pipe, non-permeable tubing or hose with barrier constructions to convey natural gas whenever possible.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7122-38200	3/8	9.5	2	0.7	16.7	0.15	0.22	4	97	125	9	HY	700	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies
Cover: **Red** chloroprene; perforated smooth finish
Temp. Range: -20°F to +160°F (-29°C to +71°C) (The hose construction is capable of this rating, but LP Gas should NEVER be conveyed over 140°F/60°C)
Brand Method: Black ink
Brand Example: PARKER SERIES 7122 LPG VAPOR HOSE 125 PSI MAX WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- LP gas – vapor ONLY
- Chicken brooders, space heaters
- Agriculture, light industrial

Vacuum: Not recommended
Compare to: Gates LPG Vapor

LP Gas Hose

Stainless Steel Reinforced – Textile Cover

Series SS25UL

view on web page

Series SS25ULis a textile-covered, small diameter, extremely durable liquefied petroleum gas (LPG)/ propane transfer hose in applications such as fuel line hose on forklifts and utility equipment. The hose meets all Underwriter Laboratories (UL21) requirements. The construction incorporates high tensile stainless steel braided reinforcement for superior strength, durability and kink resistance. The textile cover is resistant to abrasion, mild chemicals, and ozone. Series SS25UL is qualified with Parker crimp couplings and is compatible with Parker Series 20 field reattachable fittings.

NOTE: Refer to the Safety and Technical Information section of this catalog for safety, handling and use information.

Series SS25UL and Natural Gas: SS25UL may be used for natural gas service, but ONLY under ALL of the following conditions:

1) The application must be in a well-ventilated environment: Outdoors, or indoors with significant continuous air movement.
2) Series SS25UL is not to replace fixed/rigid pipe where that material is more appropriate due to reduced permeation and overall strength and durability. Use rigid pipe, non-permeable tubing or hose with barrier constructions to convey natural gas whenever possible.

Series SS25UL and Compressed Natural Gas (CNG): Series SS25UL is not to be used for any CNG application, including fuel dispensing, on-board vehicle fuel lines, or fuel transfer.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 26 Series	Field Attachable 20/22 Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
SS25UL-4	3/16	5	0.52	13,2	350	2,4	0.75	20	0.11	0,16	•	•
SS25UL-5	1/4	6,3	0.58	14,8	350	2,4	1	25	0.13	0,19	•	•
SS25UL-6	5/16	8	0.68	17,2	350	2,4	1-1/4	30	0.18	0,27	•	•
SS25UL-8	13/32	10	0.77	19,5	350	2,4	1-3/4	45	0.21	0,31	•	•
SS25UL-10	1/2	12,5	0.92	23,4	350	2,4	2-1/4	55	0.29	0,43	•	•
SS25UL-12	5/8	16	1.08	27,4	350	2,4	2-3/4	70	0.37	0,55	•	•

Field Attachable Couplings: Parker Series 20.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: One stainless steel braid
Cover: Black chloroprene-impregnated textile braid
Temp. Range: -40°F to +180°F (-40°C to +82°C) (The hose construction is capable of this rating, but LP Gas should NEVER be conveyed over 140°F/60°C)
Brand Method: White ink with dashed spiral stripe
Brand Example: Side one: PARKER SERIES SS25UL CAUTION LP GAS HOSE MH6737 C
ISSUE NO. XXXX 350 PSI MAX WP
Side Two: CAUTION FOR LP GAS USE ONLY 1750 PSI MIN BURST
Design Factor: 5:1
Industry Standards: UL21
Applications:
- LP gas/propane
- Fork lifts

Vacuum: Not recommended
Compare to: Gates Stainless Steel LPG

WARNING! Use only with couplings qualified by Parker. Do not use with male swivel couplings or other couplings containing o-rings, which may dry out, crack and fail over time.

MPW-1000®
High Pressure Wire Braid Multipurpose Hose
Series 7204

view on web page

Series 7204 hose construction incorporates a premium grade tube especially suited for high temperature materials. The high tensile wire braid reinforcement provides durability, kink resistance, high pressure capability and superior coupling retention, and the cover is resistant to heat, oil and weathering. The tube resists popcorning and oil-based detergents and rust inhibitors found in steam systems.

NOTES:
- Do not use in hot, dry air applications.
- Do not use to dispense or transfer biodiesel, diesel fuel or gasoline in regulated service (API, NFPA, UL, ULC or any other agency approval or listing).
- Do not use in vehicle engine applications.
- Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi) Non-Steam Applications	Max WP (bar) Non-Steam Applications	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7204-751	3/4	19.1	1	1.2	30.1	0.52	0.77	10	254	1000	69	43	500	Reel
7204-1001	1	25.4	1	1.5	38.1	0.75	1.12	12	305	1000	69	43	500	Reel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: One wire braid
Cover: Black chloroprene; perforated wrapped finish
Temp. Range: Air: -20°F to +158°F (-29°C to +70°C)
Steam: -20°F to +368°F (-29°C to +187°C) saturated steam to 150 psi max WP
Other: -20°F to +300°F (-29°C to +149°C) / 350°F (177°C) intermittent
Brand Method: Embossed
Brand Example: PARKER SERIES 7204 - MPW XXX PSI MAX WP
Design Factor: 4:1 (10:1 steam @ 150 psi/10 bar)
Industry Standards: None applicable

Applications:
- Air, mild chemicals, oil, water; hot asphalt, glue, oil, tar and wax; steam; biodiesel (to B20 in dedicated and non-dedicated service), diesel, ethanol, gasoline
- High pressure washdown; cleaning containment vessels and manufacturing equipment; cleaning and heating processing equipment
- General industrial, manufacturing and processing plants, refineries

Vacuum: Not recommended
Compare to: Boston Hot Tar Pumping; ContiTech Pyroflex; Gates 319MB Gold Master

⚠WARNINGS!
- **Failure to properly inspect, maintain, test and use steam hose assemblies may result in property damage, personal injury or death. Refer to ARPM publication IP-11-1, "Guide for Use, Testing and Inspection of Steam Hose."**
- **Water changes to hot water and phases of steam when subjected to heat and pressure. The greater the pressure, the higher the temperature required to achieve and maintain a steam phase. If steam escapes, dangerous quantities of heat may be released very suddenly. Exposure to hot water, low pressure steam and high pressure steam may cause severe scalding or fatal burns.**
- **Use only hoses designated for steam service for steam acpplications. Use ONLY Parker recommended hose/coupling combinations for steam applications. Refer to CrimpSource® at www.parker.com/crimpsource.**
- **Prior to use with detergents or rust inhibitors, refer to the chemical guide in this catalog or contact Parker.**
- **Drain steam hose after each use to reduce the possibility of hose popcorning while in service.**
- **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**

WILDCATTER®
Hot Tar Hose
Series SW387

view on web page

Series SW387 is a suction and discharge hose for high temperature materials such as hot asphalt, glue, oil, tar and wax to 300°F continuous. The hose construction incorporates a dual wire helix that provides full suction capability, kink resistance and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, heat, oil and weathering.

NOTE: For other hot tar and asphalt hoses, refer to Series 7204.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However, Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Nom Std Pack Qty (ft)	Pkg Type
SW387-1500	1-1/2	38.1	2	2.1	54.0	0.98	1.46	6	152	150	10	100	Coil
SW387-2000	2	50.8	2	2.6	66.7	1.43	2.13	8	203	150	10	100	Coil
SW387-2500	2-1/2	63.5	2	3.4	85.7	1.84	2.74	10	254	150	10	100	Coil
SW387-3000	3	76.2	2	3.8	95.3	2.42	3.61	12	305	150	10	100	Coil
SW387-4000	4	101.6	2	4.8	122.2	3.60	5.36	18	457	150	10	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile; ARPM Class A oil resistance
Reinforcement: Multiple textile plies with dual wire helix
Cover: Black nitrile; ARPM Class A oil resistance; wrapped finish
Temp. Range: -40°F to +300°F (-40°C to +177°C)
Brand Method: Black text on red stripe
Brand Example: PARKER WILDCATTER SW387 HOT TAR HOSE 150 PSI MAX WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- Hot asphalt, glue, oil, tar
- In-plant and storage tank transfer
- Delivery, transport applicator trucks

Vacuum: 29" Hg (737 mm Hg)
Compare to: Boston Black Cat; ContiTech Pyroflex; Thermoid Transporter

⚠WARNING! Do not use for continuous service at 350°F. Do not use above 350°F for any service or any duration. Using above the recommended service duration or temperature may lead to premature hose failure and property damage, personal injury or death.

SUPER-FLEX®

Corrugated Material Handling Hose
Suction / Vacuum
3/16" Natural Rubber / SBR Blend Tube
Series 7363

view on web page

Series 7363 is a flexible suction and discharge hose for dry or wet abrasive materials in applications such as loading/unloading barges, hoppers and railcars, and debris evacuation. The static dissipating 3/16" natural rubber/SBR blend tube provides abrasion resistance, and the wire helix provides full suction capability and kink resistance. The corrugated natural rubber blend cover provides flexibility and is resistant to abrasion and weathering.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Nom Std Pack Qty (ft)	Pkg Type
7363-3000	3	76.2	3	3.8	96.6	2.35	3.50	9	229	100	7	100	Coil
7363-4000	4	101.6	3	4.8	123.1	3.26	4.86	12	305	100	7	100	Coil
7363-5000	5	127.0	3	5.9	150.6	4.64	6.91	15	381	100	7	100	Coil
7363-6000	6	152.4	3	6.9	176.2	5.60	8.34	18	457	100	7	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black natural rubber/SBR blend; static dissipating
Reinforcement: Multiple textile plies with wire helix
Cover: Black natural rubber/SBR blend; corrugated wrapped finish
Temp. Range: -40°F to +160°F (-40°C to +71°C)
Brand Method: White text on black stripe
Brand Example: PARKER SERIES 7363 SUPER-FLEX® ABRASIVE SUCTION AND DISCHARGE 100 PSI MAX WP
Design Factor: 3:1

Industry Standards: None applicable
Applications:
- Abrasive materials, debris, water
- Loading/unloading barges, hoppers and railcars
- Construction, general industrial, mining, sewer cleaning

Vacuum: 29" Hg (737 mm Hg)
Compare to: Boston Sabertooth; ContiTech Plicord HD Vacuum; Diversiflex; Gates 688SB

⚠WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

DAY-LITE®
Corrugated Material Handling Hose Suction / Vacuum
Natural Rubber / SBR Blend Tube
Series 8341

view on web page

Series 8341 is a flexible suction/vacuum and discharge hose for dry or wet abrasive materials such as debris evacuation by mobile vacuum trucks in sewer cleaning and similar applications. The static dissipating natural rubber/SBR blend tube provides abrasion resistance, and the wire helix provides full suction capability and kink resistance. The corrugated natural rubber/SBR cover provides flexibility and is resistant to abrasion and weathering.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Nom Std Pack Qty (ft)	Pkg Type
8341-1500	1-1/2	38.1	2	2.0	50.0	0.77	1.15	5	114	75	5	100	Coil
8341-2000	2	50.8	2	2.5	63.0	1.00	1.49	6	152	75	5	100	Coil
8341-3000	3	76.2	2	3.5	90.0	1.62	2.41	9	229	75	5	100	Coil
8341-4000	4	101.6	2	4.6	117.2	2.47	3.68	12	305	75	5	100	Coil
8341-6000	6	152.4	2	6.7	170.0	4.41	6.57	18	457	75	5	100	Coil
8341-8000	8	203.2	3	8.7	221.0	5.91	8.81	24	610	75	5	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black natural rubber/SBR blend
Reinforcement: Multiple textile plies with wire helix
Cover: Black natural rubber/SBR; corrugated wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +83°C)
Brand Method: Black text on green stripe
Brand Example: PARKER SERIES 8341 DAY-LITE® SUCTION AND DISCHARGE HOSE
Design Factor: 3:1

Industry Standards: None applicable
Applications:
- Abrasive materials, debris, water
- Construction, general industrial, sewer cleaning

Vacuum: 29" Hg (737 mm Hg)
Compare to: ContiTech Plicord Vacuum

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

DAY-LITE®
Corrugated Material Handling Hose Suction / Vacuum
Natural Rubber / SBR Blend Tube
Series 8341HD

view on web page

Parker's new Day-Lite 8341HD designed for use in daylighting to both excavate and remove soil allowing to safely expose utility lines and underground pipes. Daylighting construction applications include exposing buried lines and cables, potholing, and debris removal.
DAY-LITE 8341HD offers an increased tube thickness of 3/16", full vacuum and 3:1 safety factor. The static dissipating natural rubber/SBR blend tube provides abrasion resistance, and wire helix provides full suction capability and kink resistance. The corrugated natural rubber/SBR cover provides flexibility and is resistant to abrasion and weathering.

Part Number	Size/ ID	Hose O.D.		Weight		Min. Bend Radius		Max Working Pressure	Vacuum	Packaging
	in	in	mm	(lbs/ft)	(kg/m)	in	mm			
8341HD-8000-33	8	9.3	236	9.8	4.4	28	711	75	Full	33 ft. (1 piece, continuous, coiled)

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black natural rubber/SBR blend
Reinforcement: Multiple textile plies with wire helix
Cover: Black natural rubber/SBR; corrugated wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +83°C)
Brand Method: Black text on green stripe
Brand Example: PARKER SERIES 8341HD DAY-LITE® SUCTION AND DISCHARGE HOSE
Design Factor: 3:1

Industry Standards: None applicable
Applications:
- Abrasive materials, debris, water
- Construction, general industrial, sewer cleaning

Vacuum: 29" Hg (737 mm Hg)
Compare to: ContiTech Plicord Vacuum

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

WILDCATTER®
Material Handling Hose
1/8" SBR Tube
Series SS135

view on web page

Series SS135 is a lightweight, low pressure discharge hose for dry abrasive materials such as cement and powders. The static dissipating 1/8" SBR tube provides abrasion resistance and the SBR cover is resistant to abrasion, cuts, scuffs and weathering.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However, Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Max WP (psi)	Max WP (bar)	Nom Std Pack Qty (ft)	Pkg Type
SS135-4000	4	101.6	2	4.5	114.3	1.49	2.22	65	5	100	Coil
SS135-4500	4-1/2	114.3	2	5.0	127.0	1.71	2.55	65	5	100	Coil
SS135-5000	5	127.0	2	5.5	139.7	1.90	2.83	65	5	100	Coil
SS135-6000	6	152.4	2	6.6	166.6	2.32	3.46	65	5	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: 1/8" Black SBR; static dissipating
Reinforcement: Multiple textile plies
Cover: Black SBR; wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +83°C)
Brand Method: Black text on white stripe
Brand Example: PARKER WILDCATTER SS135 DRY CEMENT DISCHARGE 65 PSI WP
Design Factor: 4:1
Industry Standards: None applicable

Applications:
- Abrasive materials, dry cement, lime, powders, silica
- Bulk transport trucks
- Construction, general industrial

Vacuum: Not recommended
Compare to: Boston Lynx HD; ContiTech Black Softwall; Gates Dry Cement Delivery; Thermoid Transporter

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

WILDCATTER®
Material Handling Hose
1/4" SBR Tube
Series SS247

view on web page

Series SS247 is a flexible, heavy duty discharge hose for dry abrasive materials such as pebble lime and sand. The static dissipating 1/4" SBR tube provides abrasion resistance and the SBR cover is resistant to abrasion, cuts, scuffs and weathering.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However, Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Max WP (psi)	Max WP (bar)	Nom Std Pack Qty (ft)	Pkg Type
SS247-4000	4	101.6	2	4.8	120.7	2.49	3.71	75	5	100	Coil
SS247-4500	4-1/2	114.3	2	5.3	133.4	2.79	4.16	75	5	100	Coil
SS247-5000	5	127.0	2	5.8	146.1	3.11	4.63	75	5	100	Coil
SS247-6000	6	152.4	2	6.8	171.5	3.69	5.50	70	5	100	Coil
SS247-8000	8	203.2	2	8.8	222.3	4.88	7.27	60	4	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: 1/4" Black SBR; static dissipating
Reinforcement: Multiple textile plies
Cover: Black SBR; wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +83°C)
Brand Method: Black text on blue stripe
Brand Example: PARKER WILDCATTER SS247 HEAVY DUTY DRY CEMENT XXX PSI WP
Design Factor: 3:1
Industry Standards: None applicable

Applications:
- Dry abrasive materials, cement, pebble lime, powders, sand, silica
- In-plant transfer/loading, bulk transport trucks
- Construction, general industrial

Vacuum: Not recommended
Compare to: Boston Lynx HD; ContiTech Black Softwall; Gates Dry Cement Delivery; Thermoid Transporter

⚠WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

Sand Recovery Hose
Suction / Vacuum
3/16" Natural Rubber Tube
Series SW409

view on web page

Series SW409 is a heavy duty suction and discharge hose for transfer and recovery of sand and severely abrasive materials. The static dissipating 3/16" natural rubber tube provides abrasion resistance, and the dual wire helix provides full suction capability and kink resistance. The SBR cover is resistant to abrasion, cuts, scuffs and weathering.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Nom Std Pack Qty (ft)	Pkg Type
SW409-2000	2	50.8	2	2.8	69.9	1.41	2.10	6	152	200	14	100	Coil
SW409-3000	3	76.2	2	3.8	95.3	2.42	3.61	12	305	175	12	100	Coil
SW409-4000	4	101.6	2	4.8	120.7	3.16	4.71	16	406	150	10	100	Coil
SW409-5000	5	127.0	2	5.8	147.6	4.25	6.33	20	508	100	7	100	Coil
SW409-6000	6	152.4	2	6.8	173.0	5.30	7.90	24	610	100	7	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: 3/16" Black natural rubber; static dissipating
Reinforcement: Multiple textile plies with dual wire helix
Cover: Black SBR; wrapped finish
Temp. Range: -40°F to +150°F (-40°C to +66°C)
Brand Method: Black text on red stripe
Brand Example: PARKER SERIES SW409 SAND RECOVERY HOSE XXX PSI WP

Design Factor: 4:1
Industry Standards: None applicable
Applications:
- Abrasive materials, debris, sand
- Construction, general industrial, mining, sand clean-up/ recovery

Vacuum: 29" Hg (737 mm Hg)

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

WILDCATTER®
BS&W™ Corrugated Vacuum Hose
Series 7213E

view on web page

Series 7213E is a flexible yet durable suction and discharge hose designed to handle brine, crude oil, mild chemicals, petroleum waste, sediments, sludge, slurries and water in harsh oilfield bottom sediment and waste pit recovery applications. The corrugated hose construction incorporates a wire helix that provides full suction capability, flexibility, kink resistance, and a path to conduct a static electrical charge to ground. The nitrile/SBR cover is resistant to abrasion, oil and weathering.

NOTES:
- Do not use with refined oil or fuel.
- This hose is not intended to transfer undiluted solutions of diesel fuel, fuel oil, kerosene or petroleum distillates. However, it is suitable for transferring brine, crude oil, drilling mud, fracking fluids, fresh water, mild chemicals, salt water and slurries that may contain additives such as diesel fuel, fuel oil, kerosene or petroleum distillates that are used as corrosion or freeze inhibitors, or gelling agents.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However, Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7213E-1500	1-1/2	38.1	2	2.0	50.2	0.86	1.28	4	102	150	10	*	100	Coil
7213E-2000	2	50.8	3	2.4	62.0	1.02	1.52	5	127	150	10	*	100	Coil
7213E-2500	2-1/2	63.5	3	3.0	75.0	1.29	1.92	6	158	150	10	*	100	Coil
7213E-3000	3	76.2	3	3.5	89.0	1.52	2.26	8	193	150	10	*	100	Coil
7213E-4000	4	101.6	3	4.6	116.0	2.49	3.71	12	305	150	10	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile/SBR; ARPM Class A oil resistance
Reinforcement: Multiple textile plies with wire helix
Cover: Black nitrile/SBR corrugated wrapped finish; ARPM Class A oil resistance
Temp. Range: -22°F to +185°F (-30°C to +85°C)
Brand Method: White text on blue stripe
Brand Example: PARKER WILDCATTER 7213E BS&W OILFIELD SUCTION HOSE 150 PSI MAX WP

Industry Standards: None applicable
Applications:
- Brine, crude oil, mild chemicals, petroleum waste, sediments, sludge, slurries, water
- Oilfield waste recovery, general industrial

Vacuum: 29" Hg (737 mm Hg)
Compare to: ContiTech Flextra Oilfield; Jason Tupelo 4677; Kuriyama T601AA; Texcel Tex-Vac;

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

WILDCATTER®
Hot Oiler Hose
Series 7301

view on web page

Series 7301 is a heavy duty, high pressure hose for hot oil at 275°F continuous/300°F intermittent (135°C/149°C). The hose construction incorporates multiple wire braids of reinforcement for crush resistance, durability, kink resistance and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, heat, oil and weathering.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However, Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7301-1502150	1-1/2	38.1	2	2.1	53.3	1.70	2.53	13	330	2250	155	*	150	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black chloroprene
Reinforcement: Multiple wire braids
Cover: Black chloroprene; perforated wrapped finish
Temp. Range: -40°F to +275°F/300°F (-40°C to +135°C/149°C)
Brand Method: Red text on black stripe
Brand Example: PARKER WILDCATTER 7301 HOT OILER HOSE (ID) 2250 PSI MAX WP TEMP RATING 275°F CONTINUOUS 300°F INTERMITTENT

Design Factor: 3:1
Industry Standards: None applicable
Applications:
- Hot asphalt, glue, tar, oil, wax
- In-plant transfer; delivery trucks
- Construction, general industrial, oilfield

Vacuum: Not recommended

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

WILDCATTER®

Multipurpose Fracking Hose

Series 7311N / 7311NXT

view on web page

view on web page

Series 7311N/7311NXT is a high pressure oilfield stimulation/fracking discharge hose designed to handle oil and refined fuels such as biodiesel (to B20 in dedicated service), diesel, ethanol and gasoline, as well as brine, mild chemicals, fracking fluids, drilling mud, petroleum waste, slurries and water.
The heavy duty multipurpose hose construction helps to extend service life in multiple applications, and incorporates dual static wires that provide a path to conduct an electrical charge to ground. The cover is resistant to abrasion, oil and weathering.

Series 7311NXT features a layer of ultra high molecular weight polyethylene (UHMWPE) bonded to the cover for extreme abrasion resistance and service life.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However, Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7311N-1500	1-1/2	38.1	4	2.0	50.8	0.76	1.13	400	28	*	100	Coil
7311N-2000	2	50.8	4	2.6	66.0	1.16	1.73	400	28	*	100	Coil
7311N-3000	3	76.2	4	3.7	93	1.77	2.64	400	28	*	100	Coil
7311N-4000	4	101.6	4	4.8	121.2	2.61	3.89	400	28	*	100	Coil
7311N-6000	6	152.4	6	7.0	177.8	5.21	7.75	400	28	*	100	Coil
7311NXT-3000	3	76.2	4	3.7	94.7	1.94	2.89	400	28	*	100	Coil
7311NXT-4000	4	101.6	4	4.8	122.7	2.78	4.14	400	28	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile; ARPM Class A oil resistance
Reinforcement: Multiple textile plies with dual static wires
Cover: 7311N: Black nitrile blend; wrapped finish
7311NXT: Black nitrile blend; sleek UHMWPE abrasion resistant finish
Temp. Range: -40°F to +200°F (-40°C to +93°C)
Brand Method: Black text on yellow stripe
Brand Example: PARKER WILDCATTER (7311N) (7311NXT) DISCHARGE HOSE 400 PSI WP

Design Factor: 4:1
Industry Standards: None applicable
Applications:
- Refined fuels, oil
- Brine, mild chemicals, fracking fluids, drilling mud, petroleum waste, slurries, water
- General industrial, oilfield

Vacuum: Not recommended

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

WILDCATTER®

Multipurpose Fracking Hose

Series 7331/7331XT

view on web page

Series 7331/7331XT is a high pressure oilfield stimulation/fracking suction & discharge hose designed to handle oil and refined fuels such as biodiesel (to B20 in dedicated service), diesel, ethanol and gasoline, as well as brine, mild chemicals, fracking fluids, drilling mud, petroleum waste, slurries and water. The heavy duty multipurpose hose construction provides an extended service life in multiple applications, and incorporates a wire helix that provides full suction capability, kink resistance, flexibility for ease of handling and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, oil and weathering.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However, Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7331-2000	2	50.8	2	2.6	64.8	1.16	1.73	8	203	400	28	*	100	Coil
7331-3000	3	76.2	2	3.6	91.7	1.98	2.95	15	381	400	28	*	100	Coil
7331-4000	4	101.6	4	4.9	124.2	3.90	5.81	20	508	400	28	*	100	Coil
7331-6000	6	152.4	6	7.1	179.0	7.65	11.40	36	914	400	28	*	100	Coil
7331XT-6000	6	152.4	6	7.1	179.3	7.08	10.54	36	914	400	28	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile; ARPM Class A oil resistance

Reinforcement: Multiple textile plies with one or multiple wire helixes

Cover: 7331: Black nitrile blend; wrapped finish
7331XT: Black nitrile blend with sleek UHMWPE abrasion resistant finish

Temp. Range: -40°F to +200°F (-40°C to +93°C)

Brand Method: Blue text on yellow stripe

Brand Example: PARKER WILDCATTER (7331) (7331XT) SUCTION HOSE 400 PSI

Design Factor: 4:1

Industry Standards: None applicable

Applications:

- Biodiesel (to B20 in dedicated service), diesel, ethanol, gasoline, oil
- Brine, mild chemicals, fracking fluids, drilling mud, petroleum waste, slurries, water
- General industrial, oilfield

Vacuum: 29" Hg (737 mm Hg)

WARNING! Do not use for continuous service at 350°F. Do not use above 350°F for any service or any duration. Using above the recommended service duration or temperature may lead to premature hose failure and property damage, personal injury or death.

WILDCATTER®
Tank Truck Hose
Series 7216E

view on web page

Series 7216E is a lightweight suction and discharge hose designed to handle oil and refined fuels such as biodiesel (to B20 in dedicated service), diesel, ethanol and gasoline. The hose construction incorporates a wire helix that provides full suction capability, kink resistance, and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, oil and weathering.

NOTE: Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.

The Wildcatter trade name indicates the product is designed and manufactured for premium service in oilfield applications. However Wildcatter products may be used in other industries, markets and applications where the product meets the required performance criteria.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7216E-1002	1	25.4	2	1.3	33.0	0.47	0.70	3	76	150	10	43	100	Coil
7216E-1252	1-1/4	31.8	2	1.7	42.4	0.65	0.97	4	102	150	10	43	100	Coil
7216E-1502	1-1/2	38.1	2	2.0	49.8	0.92	1.37	5	127	150	10	43	100	Coil
7216E-2002	2	50.8	2	2.5	63.8	1.10	1.64	6	152	150	10	43	100	Coil
7216E-2502	2-1/2	63.5	2	3.0	76.9	1.55	2.31	7	178	150	10	*	100	Coil
7216E-3002	3	76.2	2	3.7	93.0	2.08	3.10	8	203	150	10	*	100	Coil
7216E-4002	4	102.0	2	4.7	117.5	2.80	4.17	11	279	150	10	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies with dual wire helix
Cover: Black synthetic rubber; wrapped finish
Temp. Range: -35°F to +180°F (-37°C to +82°C)
Brand Method: Black text on orange stripe
Brand Example: PARKER WILDCATTER 7216E TANK TRUCK HOSE 150 PSI MAX WP
Industry Standards: None applicable

Applications:
- Biodiesel (to B20 in dedicated service), diesel, ethanol, gasoline, oil
- In-plant and storage tank transfer
- Delivery, transport

Vacuum: 29" Hg (737 mm Hg)
Compare to: Boston Puma; ContiTech Plicord Flexwing Petroleum; Gates Longhorn; Kuriyama T605AA

⚠WARNINGS!
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- Do not use for oil or fuel transfer service in or on open water.

TITANFLEX®

Corrugated Tank Truck Hose

Series SWC609 (Black) and
Series SWC609R (Red)

view on web page

view on web page

Series SWC609/SWC609R is an extremely flexible, high pressure suction and discharge hose. The corrugated hose construction incorporates a dual wire helix that provides full suction capability, superior kink resistance, minimal force-to bend and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, oil and weathering.

NOTE: Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.

Series SWC609 (Black) and Series SWC609R (Red)

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number SWC609 or SWC609R	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
-1250*	1-1/4	31.8	2	1.7	42.9	0.63	0.94	1	33	250	17	*	100	Coil
-1500	1-1/2	38.1	2	2.0	49.5	0.78	1.16	2	38	250	17	43	100	Coil
-2000	2	50.8	2	2.5	62.2	1.00	1.49	2	51	250	17	43	100	Coil
-2500	2-1/2	63.5	2	3.0	76.2	1.44	2.15	3	64	200	14	*	100	Coil
-3000	3	76.2	2	3.6	90.9	1.70	2.53	3	76	200	14	*	100	Coil
-4000	4	101.6	2	4.6	117.5	2.41	3.59	6	152	150	10	*	100	Coil
-6002*	6	152.4	2	6.8	172.2	4.75	7.08	12	305	150	10	*	100	Coil
-8002*	8	203.2	2	8.8	223.3	6.95	10.36	16	406	150	10	*	100	Coil

*** Series SWC609 only.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies with dual wire helix
Cover: SWC609: Black nitrile; corrugated wrapped finish
SWC609R: Red nitrile; corrugated wrapped finish
Temp. Range: -40°F to +200°F (-40°C to +93°C)
Brand Method: SWC609: Red text on black stripe
SWC609R: White text on red stripe
Brand Example: PARKER SERIES SWC609(R) TITANFLEX®
PETROLEUM SUCTION & DISCHARGE HOSE
XXX PSI WP

Design Factor: 4:1
Industry Standards: None applicable
Applications:
- Biodiesel (to B100 in dedicated service), diesel, ethanol, gasoline, oil
- In-plant and storage tank transfer
- Delivery, transport

Vacuum: 29" Hg (737 mm Hg)
Compare to: Boston Bobcat; ContiTech Flextra; Gates Longhorn; Thermoid Transporter

⚠WARNINGS!
- **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**
- **Do not use for oil or fuel transfer service in or on open water.**

Arctic Translite® Hose

Low Temp/Corrugated Tank Truck Hose

Series SWC325

view on web page

Series SWC325 is a flexible, lightweight, low temperature suction and discharge hose. The corrugated hose construction incorporates a dual wire helix that provides full suction capability, flexibility and kink resistance — even in the harshest cold climate conditions — and a path to conduct a static electrical charge to ground. The cover is resistant to abrasion, oil and weathering.

NOTE: Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
SWC325-1500	1-1/2	38.1	2	2.1	52.3	0.97	1.44	4	102	150	10.3	*	100	Coil
SWC325-2000	2	50.8	2	2.6	65.4	1.33	1.98	5	127	150	10.3	*	100	Coil
SWC325-2500	2-1/2	63.5	2	3.2	80.0	1.86	2.77	6	152	150	10.3	*	100	Coil
SWC325-3000	3	76.2	2	3.7	93.8	2.52	3.75	8	203	150	10.3	*	100	Coil
SWC325-4000	4	101.6	2	4.6	117.9	2.93	4.36	10	254	150	10.3	*	100	Coil
SWC325-6000	6	152.4	2	6.8	172.8	5.86	8.72	16	406	125	8.6	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies with dual wire helix
Cover: Black nitrile; corrugated wrapped finish
Temp. Range: -67°F to +180°F (-55°C to +82°C)
Brand Method: Side 1: White text on blue stripe
Side 2: Solid reflective silver stripe
Brand Example: PARKER SWC325 ARCTIC TRANSLITE®
-67°F LOW-TEMP TANK TRUCK HOSE XXX PSI MAX WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- Biodiesel (to B100 in dedicated and non-dedicated service), diesel, ethanol, gasoline, oil
- Low temperature in-plant and storage tank transfer
- Low temperature delivery, transport

Vacuum: 29" Hg (737 mm Hg)
Compare To: ContiTech LW Arctic Tank Truck

⚠WARNINGS!

- **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**

GREEN LABEL™
Corrugated Tank Truck Hose
Series 7705

view on web page

Series 7705 is a flexible, medium pressure suction and discharge biodiesel hose. The corrugated hose construction incorporates a dual wire helix that provides full suction capability, flexibility, kink resistance, and a path to conduct a static electrical charge to ground. The nitrile/PVC cover is resistant to abrasion, oil and weathering.

NOTE: Refer to the Refined Fuel/Hose Compatibility Table in the Media Compatibility section.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7705-1000	1	25.4	2	1.4	36.5	0.55	0.82	2	51	200	14	43	100	Coil
7705-1250	1-1/4	31.8	2	1.7	43.0	0.70	1.04	3	64	200	14	*	100	Coil
7705-1500	1-1/2	38.1	2	2.0	50.0	0.83	1.24	3	76	200	14	43	100	Coil
7705-2000	2	50.8	2	2.4	62.8	1.00	1.49	4	102	200	14	43	100	Coil
7705-2500	2-1/2	63.5	2	3.0	75.0	1.37	2.04	5	127	200	14	*	100	Coil
7705-3000	3	76.2	2	3.5	88.6	1.75	2.61	5	127	200	14	*	100	Coil
7705-4000	4	101.6	2	4.5	115.0	2.33	3.47	6	152	150	10	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile
Reinforcement: Multiple textile plies with dual wire helix
Cover: Black nitrile/PVC; corrugated wrapped finish
Temp. Range: -20°F to +180°F (-29°C to +82°C)
Brand Method: Black text on green stripe
Brand Example: PARKER SERIES 7705 GREEN LABEL™ TANK TRUCK HOSE XXX PSI MAX WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- Biodiesel (to B100 in dedicated and non-dedicated service), diesel, ethanol, gasoline, oil
- In-plant and storage tank transfer
- Delivery, transport

Vacuum: 29" Hg (737 mm Hg)

⚠WARNINGS!
- **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**
  Do not use for oil or fuel transfer service in or on open water.

NEXCLEAR®
Clear PVC Tubing
Series 100

view on web page

Series 100 is flexible PVC tubing featuring a smooth interior that is abrasion resistant and will not impart taste or odor, and allows full-flow. The clear PVC construction permits visual observation of materials being conveyed. Also provides excellent general industrial service for low pressure air, distilled water, wine and wire harness applications.

Tube: Clear PVC, 75A durometer

Temp. Range: +25°F to +150°F (-5°C to +65°C) Working pressures are at +68°F (+20°C). Higher temperatures reduce the available working pressure. See the PVC and Thermoplastic Temperature/Pressure chart in the Media Compatibility section.

Brand Method: Black ink

Brand Example: NEXCLEAR® FOOD GRADE PVC TUBING BY PARKER NEXGEN® (P/N) (ID) X (OD) NSF-51 MAX TEMP 150°F (65C)

Industry Standards:
- FDA ingredients*, NSF 51 certified to 180°F (82°C)***, USP Class VI Rated Materials*
- GSA A-A-52047 Type VI Compliant
- EU: Meets requirements and amendments of Resolution AP(89) for food contact

Applications:
- Beverages, potable and pure water, wine
- Air, drain, light vacuum, wire harness
- General industrial, laboratories, wineries

Vacuum: Light

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

(Continued on the following page)

⚠WARNING! Working pressures are at +68°F (+20°C). Higher temperatures reduce the available working pressure. See the PVC and Thermoplastic Temperature/Pressure chart in the Media Compatibility section.

Series 100 — NEXCLEAR® Clear PVC Tubing *(Continued)*

Part Number	ID (in)	ID (mm)	Wall (in)	Wall (mm)	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Max WP @ 68°F (psi)	Max WP @ 20°C (bar)	Nom Std Pack Qty (ft)	Pkg Type
100-01020502	1/16	1.6	0.031	0.8	1/8	3.2	0.02	0.03	50	3	500	Coil
100-02040102	1/8	3.2	0.062	1.6	1/4	6.4	0.02	0.03	65	5	100	Coil
100-03040102	3/16	4.8	0.032	0.8	1/4	6.4	0.02	0.03	50	3	100	Coil
100-03050102			0.062	1.6	5/16	7.9	0.02	0.03	55	4	100	Coil
100-03060102			0.094	2.4	3/8	9.5	0.04	0.06	60		100	Coil
100-04060102	1/4	6.4	0.062	1.6	3/8	9.5	0.04	0.06	55	4	100	Coil
100-04070102			0.094	2.4	7/16	11.1	0.04	0.06	58		100	Coil
100-04080102			0.125	3.2	1/2	12.7	0.09	0.13	60		100	Coil
100-05070102	5/16	7.9	0.062	1.6	7/16	11.1	0.04	0.06	50	3	100	Coil
100-05080102			0.094	2.4	1/2	12.7	0.07	0.10	55	4	100	Coil
100-05090102			0.125	3.2	9/16	14.3	0.09	0.13	60		100	Coil
100-06080102	3/8	9.5	0.062	1.6	1/2	12.7	0.04	0.06	45	3	100	Coil
100-06090102			0.094	2.4	9/16	14.3	0.07	0.10	50		100	Coil
100-06100102	3/8	9.5	0.125	3.2	5/8	15.9	0.11	0.16	55	4	100	Coil
100-08100102	1/2	12.7	0.062	1.6	5/8	15.9	0.07	0.10	30	2	100	Coil
100-08110102			0.094	2.4	11/16	17.5	0.09	013	40	3	100	Coil
100-08120102			0.125	3.2	3/4	19.1	0.13	0.19	45		100	Coil
100-10120102	5/8	15.9	0.062	1.6	3/4	19.1	0.07	0.10	25	2	100	Coil
100-10130102			0.094	2.4	13/16	20.6	0.11	0.16	35	2	100	Coil
100-10140102			0.125	3.2	7/8	22.2	0.15	0.22	40	3	100	Coil
100-12160100	3/4	19.1	0.125	3.2	1	25.4	0.18	0.27	35	2	100	Coil
100-12180100			0.187	4.7	1-1/8	28.6	0.29	0.43	40	3	100	Coil
100-12200100			0.250	6.4	1-1/4	31.8	0.42	0.63	45		100	Coil
100-14180100	7/8	22.2	0.125	3.2	1-1/8	28.6	0.20	0.30	30	2	100	Coil
100-16200100	1	25.4	0.125	3.2	1-1/4	31.8	0.24	0.36	25	2	100	Coil
100-16220100			0.187	4.7	1-3/8	34.9	0.37	0.55	30		100	Coil
100-16240100			0.250	6.4	1-1/2	38.1	0.53	0.79	35		100	Coil
100-20240100	1-1/4	31.8	0.125	3.2	1-1/2	38.1	0.29	0.43	20	1	100	Coil
100-20280100			0.250	6.4	1-3/4	44.5	0.62	0.92	40	3	100	Coil
100-24300100	1-1/2	38.1	**0.187**	**4.7**	**1-7/8**	**47.6**	**0.53**	**0.79**	**30**	2	**100**	**Coil**
100-24320100			**0.250**	**6.4**	**2**	**50.8**	**0.73**	**1.09**	**35**		**100**	**Coil**
100-32400100	2	50.8	0.250	6.4	2-1/2	63.5	0.93	1.39	30	2	100	Coil

*** All compound ingredients used in this tubing are listed in the US FDA CFR, Title 21. Tubing NSF 51 Listed. Compound USP Class VI rated.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

PVC General Purpose Hose

Series GPH™

view on web page

Series GPH is a versatile, flexible and lightweight PVC hose.The multiple plies of textile reinforcement provide strength and flexibility, and the flame resistant cover is also resistant to abrasion, mild chemicals, ultraviolet light and weathering. The hose is electrically nonconductive with a minimum resistance of one megaohm per inch at 1000 volts DC.

NOTES:
- The user must determine if the hose is suitable for applications subject to electrical hazard. Contact Parker for additional information.
- Series GPH does not contain red phosphorous.

Other cover colors available:

GPH-BLU

GPH-YEL

Tube: Black PVC
Reinforcement: Multiple textile plies
Cover: Black, blue, gray, red or yellow PVC; perforated smooth finish
Temp. Range: -15°F to +150°F (-25°C to +65°C). Working pressures are at +68°F (+20°C) ambient temperature. Higher temperatures reduce the available working pressure. See the PVC and Thermoplastic Temperature/Pressure chart in the Media Compatibility section.
Brand Method: White ink on black, blue and red hose
Black ink on gray and yellow hose
Brand Example: PARKER GPH – (dash ID) – (fraction ID) – XXX PSI – GENERAL PURPOSE

Design Factor: 4:1
Industry Standards: Electrically nonconductive with a minimum resistance of one megaohm per inch at 1000 volts DC
Applications:
- Air (including oil mist), mild chemicals, water
- Agriculture, construction, general industrial

Vacuum: See table on the following page
Compare to: Boston Polyforce II; ContiTech Pliovic 300

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

(Continued on the following page)

⚠WARNINGS!
- **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**

⚠ **Working pressures are at +68°F (+20°C). Higher temperatures reduce the available working pressure. See the PVC and Thermoplastic Temperature/Pressure chart in the Media Compatibility section.**

Series GPH™ – PVC General Purpose Hose *(Continued)*

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP @ 68°F (psi)	Max WP @ 20°C (bar)	Vacuum Hg (in)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
GPH-3GRA500RL	3/16	4.8	2	0.4	10.2	0.06	0.09	1	15	300	21	25	*	500	Coil
GPH-4BLK500RL															
GPH-4BLU500RL															
GPH-4GRA500RL	1/4	6.4	2	0.5	13.0	0.08	0.12	1	20	300	21	23	HY	500	Coil
GPH-4RED500RL															
GPH-4YEL500RL															
GPH-5GRA500	5/16	7.9	2	0.6	14.0	0.09	0.13	1	20	300	21	23	*	500	Coil
GPH-6BLK500RL															
GPH-6BLU500RL															
GPH-6GRA500RL	3/8	9.5	2	0.6	16.3	0.12	0.18	1	25	300	21	23	HY	500	Coil
GPH-6RED500RL															
GPH-6YEL500RL															
GPH-8BLK500RL															
GPH-8BLU500RL															
GPH-8GRA500RL	1/2	12.7	2	0.8	20.3	0.17	0.25	2	38	300	21	17	HY	500	Coil
GPH-8RED500RL															
GPH-8YEL500RL															
GPH-10BLK250															
GPH-10GRA250	5/8	15.9	2	0.9	23.1	0.22	0.33	3	64	300	21	10	HY	250	Coil
GPH-10RED250															
GPH-12BLK100															
GPH-12BLU100	3/4	19.1	2	1.1	27.2	0.25	0.37	3	71	300	21	10	HY	100	Coil
GPH-12GRA100															
GPH-12RED100															
GPH-16BLK100	1	25.4	2	1.3	33.8	0.36	0.54	4	102	250	17	5	HY	100	Coil
GPH-16RED100															

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

NEXBRAID® Clear PVC Hose

Series 125 (Standard Wall) and Series 126 (Heavy Duty)

view on web page

view on web page

Series 125 (standard wall) and Series 126 (thick wall) are flexible PVC transfer hoses for dry abrasive materials such as grains, granules, pellets and powders; beverages and potable water; non-fatty and non-oily foods; and sanitary products.
The hoses feature a smooth tube that is abrasion resistant and will not impart taste or odor, and allows full-flow, while the clear PVC construction permits visual observation of materials being conveyed. Series 125 and Series 126 also provide excellent general industrial service in air breathing supply pneumatics, flexible conduit, harness and light vacuum applications.

Tube: Clear PVC
Reinforcement: Multiple textile plies
Cover: Blue tint PVC; smooth finish
Temp. Range: +25°F to +150°F (-5°C to +65°C)
Working pressures are at +68°F (+20°C). Higher temperatures reduce the available working pressure.
See the PVC and Thermoplastic Temperature/Pressure chart in the Media Compatibility section.
Brand Method: Black ink
Brand Example: Series 125: NEXBRAID® SW FOOD GRADE PVC BY PARKER NEXGEN® (P/N) (ID) MAX WP XXX PSI AT 68°F (20°C) NSF-51 MAX TEMP 150°F (65°C)
Series 126: NEXBRAID® HD FOOD GRADE PVC BY PARKER NEXGEN® (P/N) (ID) MAX WP XXX PSI AT 68°F (20°C) **NSF-51 MAX TEMP 150°F (65°C)**

Industry Standards:
- FDA ingredients**, NSF 51 certified to 180°F (82°C)**, USP Class VI Rated**
- EU: Meets requirements and amendments of Resolution AP(89) for food contact

Applications:
- Beverages, potable water, pure water
- Dry abrasive materials, flour, grains, granules, pellets, powders, sugar
- Air, flexible conduit, light vacuum, wire harness

Vacuum: Light

(Continued on the following page)

⚠WARNINGS!
- **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**

⚠ **Working pressures are at +68°F (+20°C). Higher temperatures reduce the available working pressure. See the PVC and Thermoplastic Temperature/Pressure chart in the Media Compatibility section.**

Series 125 / 126 — NEXBRAID® Clear PVC Hose *(Continued)*

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series 125 (Standard Wall)

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Max WP (psi) @ 68°F	Max WP (bar) @ 20°C	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
125-03000300	3/16	4.8	2	0.4	9.5	0.05	0.07	250	17	*	300	Coil
125-04000300	1/4	6.4	2	0.4	11.1	0.06	0.09	250	17	*	300	Coil
125-05000300	5/16	7.9	2	0.5	13.3	0.08	0.12	250	17	*	300	Coil
125-06000300	3/8	9.5	2	0.6	15.1	0.09	0.13	225	16	*	300	Coil
125-08000300	1/2	12.7	2	0.8	19.1	0.14	0.21	200	14	*	300	Coil
125-10000300	5/8	15.9	2	0.9	22.2	0.17	0.25	200	14	*	300	Coil
125-12000300	3/4	19.1	2	1.0	26.2	0.22	0.33	150	10	*	300	Coil
125-16000200	1	25.4	2	1.3	33.0	0.31	0.46	125	9	*	200	Coil
125-20000100	1-1/4	31.8	2	1.6	41.3	0.45	0.67	100	7	*	100	Coil
125-24000100	1-1/2	38.1	2	1.9	49.2	0.64	0.95	100	7	*	100	Coil
125-32000100	2	50.8	2	2.5	63.3	0.95	1.42	75	5	*	100	Coil

*** All tube compound ingredients used in this hose are listed in the U.S. FDA CFR, Title 21. Hose NSF 51 listed. Compound USP Class VI rated.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 126 (Heavy Duty)

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Max WP (psi) @ 68°F	Max WP (bar) @ 20°C	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
126-04000300	1/4	6.4	2	0.5	12.7	0.08	0.12	350	24	*	300	Coil
126-05000300	5/16	7.9	2	0.6	14.3	0.09	0.13	275	19	*	300	Coil
126-06000300	3/8	9.5	2	0.6	15.9	0.11	0.16	250	17	*	300	Coil
126-08000300	1/2	12.7	2	0.8	20.6	0.18	0.27	250	17	*	300	Coil
126-12000200	3/4	19.1	2	1.1	28.5	0.30	0.45	200	14	*	200	Coil

*** All tube compound ingredients used in this hose are listed in the U.S. FDA CFR, Title 21. Hose NSF 51 listed. Compound USP Class VI rated.**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

GULLY WASHER®
Standard Duty Lay Flat PVC Water Discharge Hose
Series 7541

view on web page

Series 7541 standard duty lay flat PVC discharge hose is a lightweight, standard duty hose. The lay flat construction rolls up flat for easy handling, storage and transportation in agriculture, construction, general industrial and mining applications. The cover is resistant to abrasion, mild chemicals, ultraviolet light and weathering.

Part Number	ID (in)	ID (mm)	Reinf Layers	Wall Thickness (in)	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Max WP (psi) @ 68°F	Max WP (bar) @ 20°C	Nom Std Pack Qty (ft)	Pkg Type
7541-1501	1-1/2	38.1	3	0.055	1.6	40.7	0.14	0.21	70	5	300	Coil
7541-2001	2	50.8	3	0.055	2.1	53.4	0.18	0.27	70	5	300	Coil
7541-2501	2-1/2	63.5	3	0.059	2.6	66.2	0.24	0.36	60	4	300	Coil
7541-3001	3	76.2	3	0.059	3.1	79.0	0.30	0.45	60	4	300	Coil
7541-4001	4	101.6	3	0.059	4.1	104.6	0.36	0.54	60	4	300	Coil
7541-6001	6	152.4	3	0.071	6.1	156.0	0.71	1.06	45	3	300	Coil
7541-8001	8	204.0	3	0.083	8.1	206.8	1.28	1.91	45	3	300	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black PVC (not oil resistant)
Reinforcement: Multiple textile plies
Cover: Blue PVC
Temp. Range: -5°F to +170°F (-20°C to +76°C)
Working pressures are at +68°F (+20°C). Higher temperatures reduce the available working pressure. See the PVC and Thermoplastic Temperature/Pressure chart in the Media Compatibility section.
Brand Method: White ink
Brand Example: PARKER SERIES 7541 GULLY WASHER (ID) XXX PSI WP
Design Factor: 3:1

Industry Standards: None applicable
Applications:
- Mild chemicals, water
- Agriculture, construction, general industrial, mining

Vacuum: Not recommended
Compare to: ContiTech Spiralflex; Gates Master-Flex 500; Kanaflex 4501, 4502; Kuriyama NuFlo, VinylFlow; Petzetakis 11252; Sun-Flow SF-10; Superflex DH

⚠WARNINGS!
- **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**

⚠ **Working pressures are at +68°F (+20°C). Higher temperatures reduce the available working pressure. See the PVC and Thermoplastic Temperature/Pressure chart in the Media Compatibility section.**

GULLY WASHER®
Medium Duty Lay Flat PVC Water Discharge Hose
Series 7542

view on web page

Series 7542 medium duty lay flat PVC discharge hose is a lightweight, medium duty hose. The lay flat construction rolls up flat for easy handling, storage and transportation in agriculture, construction, general industrial and mining applications. The red flame resistant cover meets MSHA requirements and is also resistant to abrasion, mild chemicals, ultraviolet light and weathering.

Part Number	ID (in)	ID (mm)	Reinf Layers	Wall Thickness (in)	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Max WP @ 68°F (psi)	Max WP @ 20°C (bar)	Nom Std Pack Qty (ft)	Pkg Type
7542-1501	1-1/2	38.1	3	0.075	1.7	42.1	0.23	0.34	150	10	300	Coil
7542-2001	2	50.8	3	0.079	2.2	55.0	0.30	0.45	150	10	300	Coil
7542-2501	2-1/2	63.5	3	0.083	2.7	68.1	0.37	0.55	150	10	300	Coil
7542-3001	3	76.2	3	0.091	3.2	80.8	0.46	0.69	150	10	300	Coil
7542-4001	4	101.6	3	0.098	4.2	106.8	0.66	0.98	140	10	300	Coil
7542-6001	6	152.4	3	0.106	6.2	158.2	1.02	1.52	100	7	300	Coil
7542-8001	8	203.2	3	0.118	8.2	209.3	1.51	2.25	80	6	300	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tuboe: Black PVC (not oil resistant)
Reinforcement: Multiple textile plies
Cover: Red PVC
Temp. Range: -5°F to +170°F (-20°C to +76°C) Working pressures are at +68°F (+20°C). Higher temperatures reduce the available working pressure. See the PVC and Thermoplastic Temperature/Pressure chart in the Media Compatibility section.
Brand Method: White ink
Brand Example: SERIES 7542 GULLY WASHER (ID) XXX PSI WP FLAME RESISTANT US MSHA IC-257/0

Design Factor: 3:1
Industry Standards: MSHA
Applications:
- Mild chemicals, water
- Agriculture, construction, general industrial, mining

Vacuum: Not recommended
Compare to: Jason 4510; Kuriyama Ironsides; Petzetakis 11298; Sun-Flow SF-30, SF-50

⚠WARNINGS!
- ▶ **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**
- ⚠ **Working pressures are at +68°F (+20°C). Higher temperatures reduce the available working pressure. See the PVC and Thermoplastic Temperature/Pressure chart in the Media Compatibility section.**

DRAGON BREATH® II
Chlorobutyl Barber Pole Steam Hose
Non-Skive E-Z Crimp
Series 7285

view on web page

Series 7285 is a distinctive hose designed for long-lasting steam service—one of the toughest applications for hose, where the hot-cold/wet-dry cycling attacks rubber compounds externally as well as internally. The hose construction incorporates a premium, high-performance chlorobutyl tube which resists heat and popcorning, and a wire braid reinforcement for crush-resistant durability, kink resistance and a path to conduct a static electrical charge to ground. The EPDM cover resists abrasion, cracking, hardening and ozone, and the red/black barber pole cover provides color-coded identification from all angles and great distances. Series 7285 is qualified with Parker non-skive crimp couplings for easy and quick assembly fabrication as well as maintenance-free service.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)*	Max WP (bar)*	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7285-502	1/2	12.7	2	1.0	26.2	0.50	0.75	7.0	178	261	18	*	2x50	Carton
7285-752	3/4	19.1	2	1.3	32.6	0.64	0.95	9.5	241	261	18	CS	50	Carton
7285-1002	1	25.4	2	1.6	39.3	0.81	1.21	12.0	305	261	18	CS	5x50	Carton

*** 261 psi saturated steam; 250 psi superheated steam • 18 bar saturated steam; 17 bar superheated steam**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black chlorobutyl
Reinforcement: Multiple wire braids
Cover: Black and red EPDM in alternating spirals; perforated wrapped finish
Temp. Range: -40°F to +406°F saturated steam/+450°F superheated steam (-40°C to +208°C saturated steam/+232°C superheated steam)
Brand Method: Embossed
Brand Example: PARKER SERIES 7285 DRAGON BREATH® II STEAM HOSE 250 PSI MAX WP

Design Factor: 20:1
Industry Standards: ISO 6134 Type 2
Applications:
- Saturated and superheated steam
- Cleaning containment vessels and manufacturing equipment; cleaning and heating process equipment
- Manufacturing and processing plants, refineries

Vacuum: Not recommended
Compare to: Boston Concord Standard Steam—Spiral Stripe, Steam Slayer; Goodall N2711 Inferno Steam

⚠WARNINGS!

- **Failure to properly inspect, maintain, test and use steam hose assemblies may result in property damage, personal injury or death. Refer to ARPM publication IP-11-1, "Guide for Use, Testing and Inspection of Steam Hose."**
- **Water changes to hot water and phases of steam when subjected to heat and pressure. The greater the pressure, the higher the temperature required to achieve and maintain a steam phase. If steam escapes, dangerous quantities of heat may be released very suddenly. Exposure to hot water, low pressure steam and high pressure steam may cause severe scalding or fatal burns.**
- **Use only hoses designated for steam service for steam applications.**
- **Prior to use with detergents or rust inhibitors, refer to the chemical guide in this catalog or contact Parker.**
- **Drain steam hose after each use to reduce the possibility of hose popcorning while in service.**
- **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**

STEAM-LANCE® 250

EPDM Compact Steam Hose

Non-Skive E-Z Crimp

Series 7263C

view on web page

Series 7263C is a compact, slim profile hose for long-lasting steam service, one of the toughest applications for hose, where the hot-cold/wet-dry cycling attacks rubber compounds externally as well as internally. The hose construction incorporates an EPDM tube that resists heat and popcorning, and a wire braid reinforcement for crush-resistant durability, kink resistance and a path to conduct a static electrical charge to ground. The EPDM cover is resistant to abrasion, cracking, hardening and ozone. Series 7263C is qualified with Parker non-skive crimp couplings for easy and quick assembly fabrication as well as maintenance-free service.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series 7263C

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)*	Max WP (bar)*	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7263C-502	1/2	12.7	2	1.0	24.1	0.37	0.55	7	178	261	18	*	2x50	Carton
7263C-752	3/4	19.1	2	1.2	30.5	0.47	0.70	9	229	261	18	CS	50	Carton
7263C-1002	1	25.4	2	1.5	37.3	0.63	0.94	12	305	261	18	CS	5x50	Carton

*** 261 psi saturated steam; 250 psi superheated steam • 18 bar saturated steam; 17 bar superheated steam**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM
Reinforcement: Multiple wire braids
Cover: Black or red EPDM; perforated wrapped finish
Temp. Range: -40°F to +406°F saturated steam/+450°F superheated steam (-40°C to +208°C saturated steam/+232°C superheated steam)
Brand Method: Embossed
Brand Example: PARKER SERIES (7263C) STEAM-LANCE® E-Z CRIMP 250 PSI MAX WP
Design Factor: 20:1

Industry Standards: ISO 6134 Type 2
Applications:
- Saturated and superheated steam
- Cleaning containment vessels and manufacturing equipment; cleaning and heating process equipment
- Manufacturing and processing plants, refineries

Vacuum: Not recommended
Compare to: Boston Concord 250; ContiTech Flexsteel 250 Steam; Gates 205MB Steam King; Goodall N2576 Thermoflex; Thermoid Burstproof Regular

⚠WARNINGS!

- Failure to properly inspect, maintain, test and use steam hose assemblies may result in property damage, personal injury or death. Refer to ARPM publication IP-11-1, "Guide for Use, Testing and Inspection of Steam Hose."
- Water changes to hot water and phases of steam when subjected to heat and pressure. The greater the pressure, the higher the temperature required to achieve and maintain a steam phase. If steam escapes, dangerous quantities of heat may be released very suddenly. Exposure to hot water, low pressure steam and high pressure steam may cause severe scalding or fatal burns.
- Use only hoses designated for steam service for steam applications.
- Prior to use with detergents or rust inhibitors, refer to the chemical guide in this catalog or contact Parker.
- Drain steam hose after each use to reduce the possibility of hose popcorning while in service.
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

STEAM-LANCE® 250
EPDM Compact Steam Hose
Non-Skive E-Z Crimp
Series 7264C

view on web page

Series 7264C is a compact, slim profile hose for long-lasting steam service, one of the toughest applications for hose, where the hot-cold/wet-dry cycling attacks rubber compounds externally as well as internally. The hose construction incorporates an EPDM tube that resists heat and popcorning, and a wire braid reinforcement for crush-resistant durability, kink resistance and a path to conduct a static electrical charge to ground. The EPDM cover is resistant to abrasion, cracking, hardening and ozone; the red cover provides color-coded identification. Series 7264C is qualified with Parker non-skive crimp couplings for easy and quick assembly fabrication as well as maintenance-free service.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series 7264C

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)*	Max WP (bar)*	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7264C-752	3/4	19.1	2	1.2	30.5	0.47	0.70	9	229	261	18	CS	5x50	Carton

*** 261 psi saturated steam; 250 psi superheated steam • 18 bar saturated steam; 17 bar superheated steam**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM
Reinforcement: Multiple wire braids
Cover: Black or red EPDM; perforated wrapped finish
Temp. Range: -40°F to +406°F saturated steam/+450°F superheated steam
(-40°C to +208°C saturated steam/+232°C superheated steam)
Brand Method: Embossed
Brand Example: PARKER SERIES (7264C) STEAM-LANCE® E-Z CRIMP 250 PSI MAX WP
Design Factor: 20:1
Industry Standards: ISO 6134 Type 2

Applications:
- Saturated and superheated steam
- Cleaning containment vessels and manufacturing equipment; cleaning and heating process equipment
- Manufacturing and processing plants, refineries

Vacuum: Not recommended
Compare to: Boston Concord 250; ContiTech Flexsteel 250 Steam; Gates 205MB Steam King; Goodall N2576 Thermoflex; Thermoid Burstproof Regular

⚠WARNINGS!
- Failure to properly inspect, maintain, test and use steam hose assemblies may result in property damage, personal injury or death. Refer to ARPM publication IP-11-1, "Guide for Use, Testing and Inspection of Steam Hose."
- Water changes to hot water and phases of steam when subjected to heat and pressure. The greater the pressure, the higher the temperature required to achieve and maintain a steam phase. If steam escapes, dangerous quantities of heat may be released very suddenly. Exposure to hot water, low pressure steam and high pressure steam may cause severe scalding or fatal burns.
- Use only hoses designated for steam service for steam applications.
- Prior to use with detergents or rust inhibitors, refer to the chemical guide in this catalog or contact Parker.
- Drain steam hose after each use to reduce the possibility of hose popcorning while in service.
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

STEAM-LANCE® 250
EPDM Steam Hose
Series 7264 (Red)

view on web page

Series 7264 is a traditional hose designed for long-lasting steam service, one of the toughest applications for hose, where the hot/cold wet/dry cycling attacks rubber compounds externally as well as internally. The hose construction incorporates an EPDM tube that resists heat and popcorning, and a wire braid reinforcement for crush-resistant durability, kink resistance and a path to conduct a static electrical charge to ground. The EPDM cover is resistant to abrasion, cracking, hardening and ozone; the red cover of 7264 provides color-coded identification.

Series 7264 (Red)

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)*	Max WP (bar)*	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7264-752	3/4	19.1	2	1.3	34.1	0.70	1.04	10	241	261	18	43, CS, *	3x50	Carton

*** 261 psi saturated steam; 250 psi superheated steam • 18 bar saturated steam; 17 bar superheated steam**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM
Reinforcement: Multiple wire braids
Cover: Black or red EPDM; perforated wrapped finish
Temp. Range: -40°F to +406°F saturated steam/+450°F superheated steam (-40°C to +208°C saturated steam/+232°C superheated steam)
Brand Method: Embossed
Brand Example: PARKER SERIES (7264) STEAM-LANCE® 250 PSI MAX WP
Design Factor: 10:1 (20:1 for 1/2", 3/4" and 1" sizes only)
Industry Standards: ISO 6134 Type 2

Applications:
- Saturated and superheated steam
- Cleaning containment vessels and manufacturing equipment; cleaning and heating process equipment
- Manufacturing and processing plants, refineries

Vacuum: Not recommended
Compare to: **Boston Concord 250; ContiTech Flexsteel 250 Steam; Gates 205MB Steam King; Goodall N2576 Thermoflex; Thermoid Burstproof Regular**

STEAM-LANCE® 250
EPDM Steam Hose
Series 7263/7263(E)

view on web page

Series 7263/7263(E) is a traditional hose designed for long-lasting steam service, one of the toughest applications for hose, where the hot/cold wet/dry cycling attacks rubber compounds externally as well as internally. The hose construction incorporates an EPDM tube that resists heat and popcorning, and a wire braid reinforcement for crush-resistant durability, kink resistance and a path to conduct a static electrical charge to ground. The EPDM cover is resistant to abrasion, cracking, hardening and ozone.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series 7263(E) (Black)

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)*	Max WP (bar)*	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7263-502	1/2	12.7	2	1.0	26.2	0.48	0.72	7	178	261	18	43	2x50	Carton
7263-752	3/4	19.1	2	1.3	34.1	0.66	0.98	10	241	261	18	43, CS	3x50	Carton
7263-1002	1	25.4	2	1.6	40.5	0.85	1.27	12	305	261	18	CS, 43	5x50	Carton
7263-1002A												CS, 43	500	Reel
7263-1252	1-1/4	31.8	2	1.9	47.6	1.14	1.70	17	419	261	18	71	8x50	Carton
7263E-1502	1-1/2	38.1	2	2.2	55.6	1.44	2.15	20	508	261	18	43	50	Carton
7263E-2002	2	50.8	2	2.7	67.8	1.76	2.62	25	635	261	18	*	50	Carton

*** 261 psi saturated steam; 250 psi superheated steam • 18 bar saturated steam; 17 bar superheated steam**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM
Reinforcement: Multiple wire braids
Cover: Black or red EPDM; perforated wrapped finish
Temp. Range: -40°F to +406°F saturated steam/+450°F superheated steam (-40°C to +208°C saturated steam/+232°C superheated steam)
Brand Method: Embossed
Brand Example: PARKER SERIES 7263/7263E STEAM-LANCE® 250 PSI MAX WP
Design Factor: 10:1 (20:1 for 1/2", 3/4" and 1" sizes only)
Industry Standards: ISO 6134 Type 2

Applications:
- Saturated and superheated steam
- Cleaning containment vessels and manufacturing equipment; cleaning and heating process equipment
- Manufacturing and processing plants, refineries

Vacuum: Not recommended
Compare to: Boston Concord 250; ContiTech Flexsteel 250 Steam; Gates 205MB Steam King; Goodall N2576 Thermoflex; Thermoid Burstproof Regular

WARNINGS!
- Failure to properly inspect, maintain, test and use steam hose assemblies may result in property damage, personal injury or death. Refer to ARPM publication IP-11-1, "Guide for Use, Testing and Inspection of Steam Hose."
- Water changes to hot water and phases of steam when subjected to heat and pressure. The greater the pressure, the higher the temperature required to achieve and maintain a steam phase. If steam escapes, dangerous quantities of heat may be released very suddenly. Exposure to hot water, low pressure steam and high pressure steam may cause severe scalding or fatal burns.
- Use only hoses designated for steam service for steam applications.
- Prior to use with detergents or rust inhibitors, refer to the chemical guide in this catalog or contact Parker.
- Drain steam hose after each use to reduce the possibility of hose popcorning while in service.
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

DRAGON BREATH® 250
Oil Resistant Steam Hose
Series 7288

view on web page

Series 7288 is a traditional oil resistant hose designed for long-lasting steam service, one of the toughest applications for hose, where the hot/cold wet/dry cycling attacks rubber compounds externally as well as internally. The hose construction incorporates an EPDM tube that resists heat and popcorning, and a wire braid reinforcement for crush-resistant durability, kink resistance and a path to conduct a static electrical charge to ground. The red chloroprene cover is resistant to weathering and oil—an important criteria for oil refineries and petrochemical plants—and provides color-coded identification.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)*	Max WP (bar)*	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7288-502	1/2	12.7	2	1.0	26.2	0.52	0.77	7	178	261	18	43	2x50	Carton
7288-752	3/4	19.1	2	1.3	34.1	0.73	1.09	10	241	261	18	CS, 43	3x50	Carton

*** 261 psi saturated steam; 250 psi superheated steam • 18 bar saturated steam; 17 bar superheated steam**

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black EPDM
Reinforcement: Multiple wire braids
Cover: ARPM Class B oil resistant red chloroprene; perforated wrapped finish
Temp. Range: -40°F to +406°F saturated steam/+450°F superheated steam (-40°C to +208°C saturated steam/+232°C superheated steam)
Brand Method: Embossed
Brand Example: PARKER SERIES 7288 DRAGON BREATH® STEAM HOSE 250 PSI MAX WP OIL RESISTANT

Design Factor: 20:1
Industry Standards: ISO 6134 Type 2
Applications:
- Saturated and superheated steam
- Cleaning containment vessels and manufacturing equipment; cleaning and heating process equipment
- Manufacturing and processing plants, refineries

Vacuum: Not recommended
Compare to: Boston Concord 250 OR; ContiTech Flexsteel 250 ORS; Gates 232MB Steam Queen; Thermoid Burstproof Oil Resistant

⚠WARNINGS!
- **Failure to properly inspect, maintain, test and use steam hose assemblies may result in property damage, personal injury or death. Refer to ARPM publication IP-11-1, "Guide for Use, Testing and Inspection of Steam Hose."**
- **Water changes to hot water and phases of steam when subjected to heat and pressure. The greater the pressure, the higher the temperature required to achieve and maintain a steam phase. If steam escapes, dangerous quantities of heat may be released very suddenly. Exposure to hot water, low pressure steam and high pressure steam may cause severe scalding or fatal burns.**
- **Use only hoses designated for steam service for steam applications.**
- **Prior to use with detergents or rust inhibitors, refer to the chemical guide in this catalog or contact Parker.**
- **Drain steam hose after each use to reduce the possibility of hose popcorning while in service.**
- **Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.**

Hydrocarbon Drain Hose
Oil Resistant
Non-Skive E-Z Crimp
Series 7200

view on web page

Series 7200 is designed to evacuate hot, liquefied residue from steam cleaning operations. The wire braid reinforcement provides crush-resistant durability, kink resistance and a path to conduct a static electrical charge to ground. The vivid blue chloroprene cover is resistant to oil and weathering, and provides color-coded identification. Series 7200 is qualified with Parker non-skive crimp couplings for easy and quick assembly fabrication as well as maintenance-free service.

NOTE: Do not use for steam service.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7200-751050	3/4	19.1	1	1.2	30.1	0.52	0.77	10	241	350	24	43	3x50	Carton
7200-1001050	1	25.4	1	1.5	38.1	0.76	1.13	12	305	350	24	43	5x50	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black nitrile; ARPM Class A oil resistance
Reinforcement: One wire braid
Cover: Blue chloroprene; wrapped finish
Temp. Range: -20°F to +300°F (-29°C to +149°C)/+350°F (+177°C) intermittent
Brand Method: Blue text on green stripe
Brand Example: PARKER SERIES 7200 HYDROCARBON DRAIN HOSE 350 PSI WP
Design Factor: 4:1

Industry Standards: None applicable
Applications:
- NOT FOR STEAM SERVICE
- Drainage of hot residue from steam cleaning operations
- Manufacturing and processing plants, refineries

Vacuum: Not recommended
Compare to: Boston Hydrocarbon Drain Hose

⚠WARNINGS!
- Use only hoses designated for steam service for steam applications.
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

SUPER-FLEX®
EPDM Water Suction Hose
Series 7392E

view on web page

Series 7392E is a lightweight suction and discharge hose for water. The construction incorporates a wire helix that provides full suction capability and kink resistance. The EPDM cover is resistant to abrasion, heat, mild chemicals and weathering.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

# Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7392E-1500	1-1/2	38.1	2	1.9	48.0	0.72	1.07	6	152	150	10	*	100	Coil
7392E-2000	2	50.8	2	2.4	62.0	1.08	1.61	7	178	150	10	*	100	Coil
7392E-2500	2-1/2	63.5	2	3.0	74.9	1.45	2.16	8	203	150	10	*	100	Coil
7392E-3000	3	76.2	2	3.5	88.9	1.80	2.68	10	254	150	10	*	100	Coil
7392E-4000	4	107.0	2	4.5	115.1	2.43	3.62	22	559	150	10	*	100	Coil
7392E-6000	6	152.4	4	6.6	168.3	3.71	5.53	30	711	100	10	*	100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black synthetic rubber
Reinforcement: Multiple textile plies with dual wire helix
Cover: Black EPDM; wrapped finish
Temp. Range: -40°F to +180°F (-40°C to +82°C)
Brand Method: White text on blue stripe
Brand Example: PARKER SERIES 7392E WATER SUCTION HOSE – XXX PSI MAX WP
Industry Standards: None applicable

Applications:
- Alkalies, brine, glycols, herbicides, mild chemicals, slurries, water
- Agriculture, construction, general industrial, irrigation, surface mining

Vacuum: 29" Hg (737 mm Hg)
Compare to: ContiTech Plicord Con-Ag Water S&D; Gates Barracuda

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

STINGER™ II
High Pressure Mine and Multipurpose Hose
Series 7268E

view on web page

Series 7268E is a versatile, high pressure hose commonly used in mining. The construction incorporates high tensile wire braid reinforcement that provides durability, kink resistance, high pressure capability, and superior coupling retention. The flame resistant bright yellow cover meets MSHA requirements and is also resistant to abrasion and oil.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Lay-ers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7268E-751													524	Reel
7268E-751050	3/4	19.1	1	1.0	26.5	0.34	0.51	6	152	1000	69	HY, 43	50	Coil
7268E-751100													100	Coil
7268E-1001													524	Reel
7268E-1001050	1	25.4	1	1.3	34.0	0.50	0.75	8	203	1000	69	HY, 43	50	Coil
7268E-1001100													100	Coil
7268E-1251050	1-1/4	31.8	1	1.6	41.4	0.67	1.00	12	305	1000	69	HY, 43	50	Coil
7268E-1251100													100	Coil
7268E-1501050	1-1/2	38.1	1	1.9	48.0	0.86	1.28	14	356	1000	69	43	50	Coil
7268E-1501100													100	Coil
7268E-2001	2	50.8	1	2.4	62.0	1.14	1.70	18	457	1000	69	43	50	Coil
7268E-2001100													100	Coil

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black chloroprene
Reinforcement: One wire braid
Cover: Yellow nitrile/PVC; perforated wrapped finish
Temp. Range: -20°F to +212°F (-29°C to +100°C)
Brand Method: Embossed (1-1/2" black ink)
Brand Example: PARKER SERIES 7268E STINGER II (ID) 1000 PSI MAX WP MSHA #
Design Factor: 4:1
Industry Standards: MSHA

Applications:
- Air, mild chemicals, oil, water
- Heavy duty air tools, compressors; drill hose, dust suppression in mines
- Construction, general industrial, mines and quarries

Vacuum: Not recommended
Compare to: Boston Concord Yellow Jack; ContiTech Minespray, Super Ortac; Gates 1000MP/Mine Spray

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

HURRICANE™
Pressure Washer Hose
Series 7258

view on web page

Series 7258/7258BL hose construction incorporates a high tensile wire braid reinforcement that provides durability, kink resistance and superior coupling retention. Both cover colors are resistant to oil and weathering.

NOTE: Do not use for carpet cleaning or steam service.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Part Number	ID (in)	ID (mm)	Reinf Layers	OD (in)	OD (mm)	Approx Wt (lbs/ft)	Approx Wt (kg/m)	Min Bend Rad (in)	Min Bend Rad (mm)	Max WP (psi)	Max WP (bar)	Perm Cplg Rec *	Nom Std Pack Qty (ft)	Pkg Type
7258-250BK	1/4	6.4	1	0.500	12.7	0.14	0.21	2	38	3000	207	HY, 43	500	Reel
7258-380BK	3/8	9.5	1	0.620	15.7	0.19	0.28	2	51	3000	207	HY, 43	500	Reel
7258-501BK	1/2	12.7	1	0.700	18.9	0.23	0.34	3	76	2500	172	HY, 43	500	Reel
7258-250BL	1/4	6.4	1	0.500	12.7	0.14	0.21	2	38	3000	207	43	500	Reel
7258-380BL	3/8	9.5	1	0.620	15.7	0.19	0.28	2	51	3000	207	43	500	Reel
7258-501BL												HY, 43		

Factory Assemblies: Available from stock in popular configurations. Refer to the following page.

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Tube: Black chloroprene
Reinforcement: One wire braid
Cover: Black (BK) chloroprene, wrapped finish;
Blue (BL) chloroprene; perforated wrapped finish
Temp. Range: -40°F to +250°F (-40°C to +121°C)
Brand Method: White ink
Brand Example: PARKER SERIES 7258 HURRICANE™
3000 PSI MAX WP
Design Factor: 4:1 (1/2" @ 3.5:1)
Industry Standards: None applicable

Applications:
- Hot water, mild chemicals
- Agriculture, construction, general industrial, oilfield, shipyards

Vacuum: Not recommended
Compare to: Gates Power Clean

WARNING! Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.

HURRICANE™
Pressure Washer Hose – Factory Assemblies
Series 7258BK (Black) and 7258BL (Blue)

view on web page

Series 7258BK (Black)

# Part Number	ID (in)	Length (ft)	Approx Wt (lbs/ea)	Max WP (psi)	Fitting 1	Thread Size (in)	Fitting 2	Thread Size (in)	Std Pack Qty (ea)	Pkg Type
725825BKRS-600	1/4	50	7.25	3000	101HY-4-4	1/4 - 18	113HY-4-4	1/4 - 18	5	Carton
725838BKRS-600	3/8	50	9.85	3000	10143-6-6	3/8 - 18	11343-6-6	3/8 - 18	5	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 7258BL (Blue)

# Part Number	ID (in)	Length (ft)	Approx Wt (lbs/ea)	Max WP (psi)	Fitting 1	Thread Size (in)	Fitting 2	Thread Size (in)	Std Pack Qty (ea)	Pkg Type
725825BLRS-600	1/4	50	7.25	3000	101HY-4-4	1/4 - 18	113HY-4-4	1/4 - 18	5	Carton
725838BLRS-600	3/8	50	9.85	3000	10143-6-6	3/8 - 18	11343-6-6	3/8 - 18	5	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Temp Range: -40°F to +250°F (-40°C to +121°C)
Design Factor: 4:1
Crimped-on Carbon Steel Rigid Male x Swivel Male,
Black PVC Bend Restrictors Each End

Coiled and Tied, No Center Disc
NOTE: Refer to the previous page for bulk hose information.

Contractor's Water Hose – Factory Assemblies

Series 7055 (Black)

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Series 7055 is designed as a lightweight, abrasion and weather resistant hose for general industrial water service. The factory-installed, crimped-on lightweight brass couplings provide a secure hose/fitting interface, and the male and female garden hose ends provide easy, quick and secure connections.

Series 7055 (Black)

# Part Number	ID (in)	ID (mm)	Length (ft)	Length (m)	Approx Wt (lbs/ea)	Approx Wt (kg/ea)	Max WP (psi)	Max WP (bar)	Std Pack Qty (ea)	Pkg Type
7055GHT63-300	5/8	15.9	25	7.62	4.91	2.23	100	7	10	Carton
7055GHT63-600			50	15.24	9.32	4.23			5	Carton
7055GHT75-300	3/4	19.1	25	7.62	7.23	3.28	100	7	6	Carton
7055GHT75-600			50	15.24	13.87	6.29			3	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Premium Contractor's Water Hose – Factory Assemblies

Series PR (Black EPDM)

view on web page

Series PR is designed as a durable, lightweight, abrasion and weather resistant hose for agriculture, construction or general industrial water service. The factory-installed, crimped-on lightweight, crush resistant nickel-plated brass couplings provide a secure hose/fitting interface, and the male and female garden hose ends provide easy, quick and secure connections.

Part Number	ID (in)	ID (mm)	Length (ft)	Length (m)	Approx Wt (lbs/ea)	Approx Wt (kg/ea)	Max WP (psi)	Max WP (bar)	Std Pack Qty (ea)	Pkg Type
PR5825	5/8	15.9	25	7.62	5.58	2.53	125	9	8	Carton
PR5850			50	15.24	10.66	4.84			4	Carton
PR5875			75	22.86	15.86	7.19			3	Carton
PR58100			100	30.48	20.94	9.50			2	Carton
PR3450	3/4	19.1	50	15.24	14.07	6.38	125	9	3	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Temp Range: -40°F to +180°F (-40°C to +82°C)
Design Factor: 4:1
Crimped-on Crush Resistant Nickel Plated Brass

Male x Female Garden Hose Thread Couplings
Display Coils with Parker Center Retail Packaging Disc

Premium Hot Water Hose – Factory Assemblies

Series HWR (Red EPDM)

view on web page

Series HWR is designed as a lightweight, abrasion and weather resistant hose for general industrial/commercial hot water (to 212°F) water service. The factory-installed, crimped-on crush resistant nickel-plated brass couplings provide a secure hose/fitting interface, and the male and female garden hose ends provide easy, quick and secure connections.

Part Number	ID (in)	ID (mm)	Length (ft)	Length (m)	Approx Wt (lbs/ea)	Approx Wt (kg/ea)	Max WP (psi)	Max WP (bar)	Std Pack Qty (ea)	Pkg Type
HWR5825	5/8	15.9	25	7.62	5.73	2.60	125	9	8	Carton
HWR5850			50	15.24	10.95	4.97			4	Carton
HWR5875			75	22.86	16.30	7.39			3	Carton
HWR58100			100	30.48	21.52	9.76			2	Carton
HWR3450	3/4	19.1	50	15.24	14.36	6.51	125	9	2	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Temp Range: -40°F to +212°F (-40°C to +100°C)
Design Factor: 4:1

Male x Female Garden Hose Thread Couplings
Display Coils with Parker Center Retail Packaging Disc

Premium Rubber Garden Hose - Factory Assemblies

Series RGR (Green EPDM)

Series RGR is designed as a lightweight, abrasion and weather resistant hose for general consumer/commercial water service. The green color naturally blends in with grass, plants and a garden/landscape environment.

view on web page

The factory-installed, crimped-on crush resistant nickel-plated brass couplings provide a secure hose/fitting interface, and the male and female garden hose ends provide easy, quick and secure connections.

Part Number	ID (in)	ID (mm)	Length (ft)	Length (m)	Approx Wt (lbs/ea)	Approx Wt (kg/ea)	Max WP (psi)	Max WP (bar)	Std Pack Qty (ea)	Pkg Type
RGR1250	1/2	12.7	50	15.24	7.68	3.48	100	7	6	Carton
RGR12100			100	30.48	14.78	6.70			3	Carton
RGR5825	5/8	15.9	25	7.62	5.81	2.64	125	9	8	Carton
RGR5850			50	15.24	11.01	4.99			4	Carton
RGR5875	5/8	15.9	75	22.86	16.20	7.35	125	9	3	Carton
RGR58100			100	30.48	21.39	9.70			2	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

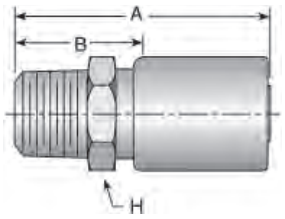
Temp Range: -40˚F to +180˚F (-40˚C to +82˚C)
Design Factor: 4:1 (1/2" @ 3.5:1)
Crimped-on Crush Resistant Nickel Plated Brass

Male x Female Garden Hose Thread Couplings
Display Coils with Parker Center Retail Packaging Disc

Series HY

101HY Male NPTF Pipe – Straight Rigid

view on web page



Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
101HY-2-4	1/4	1/8x27	-2	2.34	59	5/8	1.00	25	1.94	20	Carton
101HY-4-4	1/4	1/4x18	-4	2.53	64	9/16	1.19	30	2.73	25	Carton
101HY-4-6	3/8	1/4x18	-4	2.55	65	11/16	1.19	30	3.06	20	Carton
101HY-6-4	1/4	3/8x18	-6	2.53	64	3/4	1.19	30	2.68	20	Carton
101HY-6-6	3/8	3/8x18	-6	2.55	65	3/4	1.19	30	4.20	25	Carton
101HY-6-8	1/2	3/8x18	-6	2.72	69	7/8	1.38	35	4.54	20	Carton
101HY-8-6	3/8	1/2x14	-8	2.73	69	7/8	1.38	35	4.36	20	Carton
101HY-8-8	1/2	1/2x14	-8	2.91	74	7/8	1.41	40	6.53	25	Carton
101HY-8-10	5/8	1/2x14	-8	2.94	75	1-1/8	1.59	40	7.26	20	Carton
101HY-8-12	3/4	1/2x14	-8	3.08	78	1-1/4	1.50	38	4.33	10	Carton
101HY-12-8	1/2	3/4x14	-12	2.91	74	1-1/16	1.56	40	7.60	20	Carton
101HY-12-10	5/8	3/4x14	-12	2.98	76	1-1/8	1.59	40	3.80	10	Carton
101HY-12-12	3/4	3/4x14	-12	3.08	78	1-1/4	1.50	38	4.58	10	Carton
101HY-12-16	1	3/4x14	-12	3.23	82	1-3/8	1.63	41	5.40	10	Carton
101HY-16-12	3/4	1x11-1/2	-16	3.27	83	1-3/8	1.69	43	5.10	10	Carton
101HY-16-16	1	1x11-1/2	-16	3.42	87	1-3/8	1.81	46	6.29	10	Carton
S101HY-20-20	1-1/4	1-1/4 x 11-1/2	-20	3.84	98	1-3/4	2.00	51	6.62	4	Carton

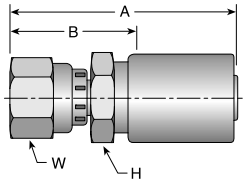
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series HY
106HY Female JIC 37° – Straight Swivel

view on web page

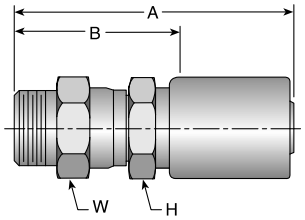


Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	W (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
106HY-4-4	1/4	7/16x20	-4	2.60	66	9/16	9/16	1.25	32	3.18	25	Carton
106HY-4-6	3/8	7/16x20	-4	2.67	68	3/4	9/16	1.31	33	3.30	20	Carton
106HY-5-4	1/4	1/2x20	-5	2.65	67	9/16	5/8	1.31	33	2.52	20	Carton
106HY-6-4	1/4	9/16x18	-6	2.67	68	5/8	11/16	1.31	33	2.62	20	Carton
106HY-6-6	3/8	9/16x18	-6	2.69	68	11/16	11/16	1.34	34	8.35	50	Carton
106HY-6-8	1/2	9/16x18	-6	2.86	73	7/8	9/16	1.50	38	4.80	20	Carton
106HY-8-6	3/8	3/4x16	-8	2.72	69	7/8	7/8	1.38	35	3.96	20	Carton
106HY-8-8	1/2	3/4x16	-8	2.90	74	7/8	7/8	1.56	40	13.20	50	Carton
106HY-8-10	5/8	3/4x16	-8	2.98	76	1-1/8	7/8	1.59	40	7.06	20	Carton
106HY-8-12	3/4	3/4x16	-8	3.08	78	1-1/4	7/8	1.53	39	2.64	10	Carton
106HY-10-8	1/2	7/8x14	-10	2.98	76	1	1	1.63	41	6.20	20	Carton
106HY-10-10	5/8	7/8x14	-10	3.06	78	1-1/8	1	1.69	43	9.95	25	Carton
106HY-10-12	3/4	7/8x14	-10	3.16	80	1-1/4	1	1.59	40	5.23	10	Carton
106HY-12-8	1/2	1-1/16x12	-12	3.05	77	1-1/8	1-1/4	1.69	43	3.84	10	Carton
106HY-12-10	5/8	1-1/16x12	-12	3.12	79	1-1/8	1-1/4	1.75	44	4.48	10	Carton
106HY-12-12	3/4	1-1/16x12	-12	3.22	82	1-1/4	1-1/4	1.66	42	13.08	25	Carton
106HY-12-16	1	1-1/16x12	-12	3.38	86	1-3/8	1-1/4	1.75	44	6.40	10	Carton
106HY-16-16	1	1-5/16x12	-16	3.45	88	1-3/8	1-1/2	1.84	47	6.86	10	Carton
106HY-20-20	1-1/4	1-5/8x12	-20	4.09	104	2	2	2.25	57	5.00	4	Carton

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series HY
113HY Male NPTF Pipe – Straight Swivel

view on web page



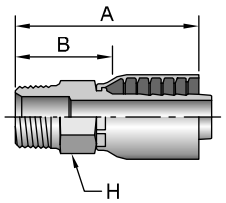
Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	W (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
113HY-4-4	1/4	1/4x18	-4	3.06	78	9/16	5/8	1.72	44	2.95	25	Carton
113HY-6-6	3/8	3/8x18	-6	3.11	79	11/16	11/16	1.75	44	6.23	25	Carton
113HY-8-8	1/2	1/2x14	-8	3.50	89	7/8	7/8	2.16	55	8.55	25	Carton
113HY-12-12	3/4	3/4x14	-12	3.95	100	1-1/4	1-1/4	2.38	60	7.50	10	Carton
113HY-16-16	1	1x11-1/2	-16	4.23	107	1-1/2	1-1/2	2.63	67	11.52	10	Carton

Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 43
10143 Male NPTF Pipe – Straight Rigid

view on web page



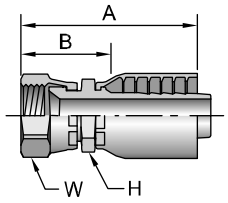
Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
10143-4-4	1/4	1/4x18	-4	2.01	51	9/16	1.26	32	3.00	25	Carton
10143-6-6	3/8	3/8x18	-6	2.37	60	3/4	1.34	34	4.25	25	Carton
10143-8-8	1/2	1/2x14	-8	2.84	72	7/8	1.58	40	5.30	20	Carton
10143-12-12	3/4	3/4x14	-12	3.09	78	1-1/16	1.65	42	4.35	10	Carton
10143-16-16	1	1x11-1/2	-16	2.59	66	1-3/8	1.97	50	3.71	5	Carton
10143-20-20	1-1/4	1-1/4x11-1/2	-20	4.08	104	1-3/4	2.39	61	5.50	5	Carton
10143-24-24	1-1/2	1-1/2x11-1/2	-24	3.50	89	2	2.13	54	8.06	5	Carton
10143-32-32	2	2x11-1/2	-32	4.05	103	2-1/2	2.27	58	13.37	5	Carton

Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 43
10643 Female JIC 37° – Straight Swivel

view on web page



Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	W (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
10643-4-4	1/4	7/16x20	-4	1.94	49	9/16	9/16	1.19	30	2.63	25	Carton
10643-6-6	3/8	9/16x18	-6	2.29	58	11/16	11/16	1.26	32	4.33	25	Carton
10643-8-8	1/2	3/4x16	-8	2.63	67	13/16	7/8	1.37	35	5.14	20	Carton
10643-12-12	3/4	1-1/16x12	-12	3.17	81	1-1/16	1-1/4	1.73	44	2.35	5	Carton
10643-16-16	1	1-5/16x12	-16	3.62	92	1-3/8	1-1/2	2.00	51	4.15	5	Carton
10643-20-20	1-1/4	1-5/8x12	-20	3.94	100	1-7/8	2	2.25	57	7.60	5	Carton
10643-24-24	1-1/2	1-7/8x12	-24	3.84	98	2-1/8	2-1/4	2.47	63	4.00	2	Carton
10643-32-32	2	2-1/2x12	-32	4.73	120	2-1/2	2-7/8	2.95	75	3.08	1	Carton

Material: Plated steel

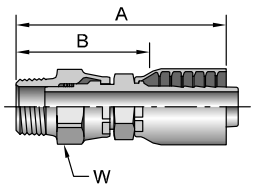
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series 43
11343 Male NPTF Pipe – Straight Swivel

view on web page



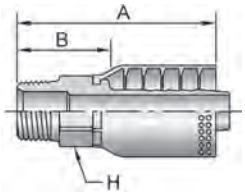
Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
11343-4-4	1/4	1/4X18	-4	2.68	68	5/8	1.93	49	1.53	10	Carton
11343-6-6	3/8	3/8X18	-6	3.08	78	3/4	2.05	52	2.55	10	Carton
11343-8-8	1/2	1/2X14	-8	3.52	89	7/8	2.26	57	3.70	10	Carton

Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series CC
S101CC Male NPTF Pipe – Straight Rigid

view on web page



Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
S101CC-16-16CW	1	1x11-1/2	-16	3.94	100	1-3/8	2.00	51	18.60	20	Carton
S101CC-20-20CW	1-1/4	1-1/4x11-1/2	-20	4.06	103	1-3/4	2.39	61	3.00	–	Carton
S101CC-24-24CW	1-1/2	1-1/2x11-1/2	-24	3.50	89	2	2.13	54	5.00	5	Carton
S101CC-32-32CW	2	2x11-1/2	-32	5.39	137	2-5/8	2.14	54	13.00	2	Carton

Material: Stainless Steel Inserts, Carbon Steel Ferrules

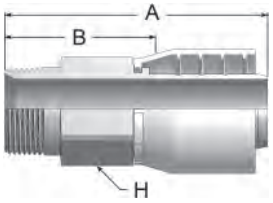
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series WC
S1APWC Male API – Straight Rigid

view on web page



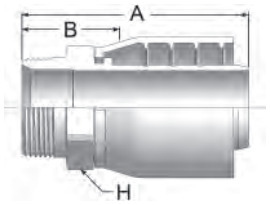
Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions					Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
				A (in)	A (mm)	H (in)	B (in)	B (mm)			
S1APWC-32-32	2	2x11-1/2	-32	7.17	182	2-5/8	3.92	99	2.00	2	Carton

Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series WC
S101WC Male NPTF Pipe – Straight Rigid

view on web page



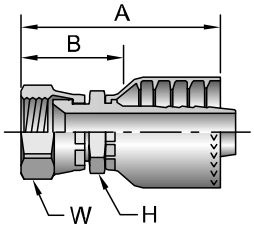
Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions					Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
				A (in)	A (mm)	H (in)	B (in)	B (mm)			
S101WC-32-32	2	2x11-1/2	-32	5.39	137	2-5/8	2.14	54	2.00	2	Carton

Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series WC
S106WC Female JIC 37° – Straight Swivel

view on web page



Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions						Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
				A (in)	A (mm)	H (in)	W (in)	B (in)	B (mm)			
S106WC-32-32	2	2-1/2x12	-32	5.95	151	2-5/8	2-7/8	2.70	69	2.00	2	Carton

Material: Plated steel

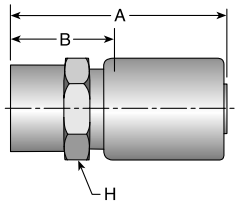
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series 7661/TY-FF
Female NPTF Pipe – Straight Rigid

view on web page



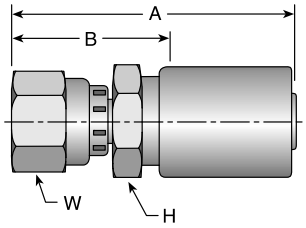
Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
7661-04FF04TY	1/4	1/4x18	-4	2.47	63	11/16	1.15	26	3.23	25	Carton

Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 7661/TY-FJ
Female JIC 37° – Straight Swivel

view on web page



Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	W (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
7661-04FJ04TY	1/4	7/16x20	-4	2.60	66	9/16	9/16	1.25	32	3.18	25	Carton
7661-08FJ08TY	1/2	3/4x16	-8	2.90	74	7/8	7/8	1.56	40	26.40	100	Carton

Material: Plated steel

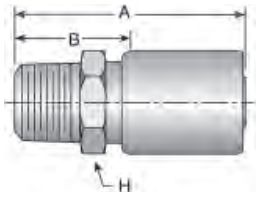
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series 7661/TY-MP
Male NPTF Pipe – Straight Rigid

view on web page



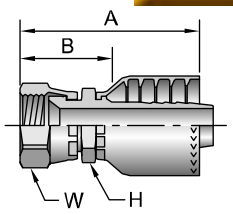
Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
7661-04MP04TY	1/4	1/4x18	-4	2.53	64	9/16	1.19	30	7.00	50	Carton
7661-08MP08TY	1/2	1/2x14	-8	2.91	74	7/8	1.56	40	30.00	100	Carton
7661-12MP08TY	1/2	3/4x14	-12	2.91	74	1-1/16	1.56	40	80.00	80	Carton

Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 7661/LA-FJ
Female JIC 37° – Straight Swivel

view on web page



Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	W (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
7661-32FJ32LA	2	2-1/2x12	-32	5.39	137	2-5/8	2-7/8	2.70	69	27.20	7	Carton

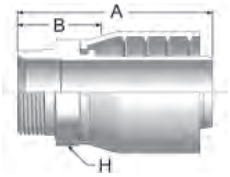
Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Crimp Specifications
For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series 7661/LA-NP
Male NPTF Pipe – Straight Rigid

view on web page



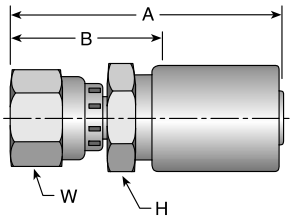
Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
7661-32NP32LA	2	2x11-1/2	-32	5.39	137	2-5/8	2.14	54	26.90	8	Carton

Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 7661/LAR-FJ
Female JIC 37° – Straight Swivel with Internal O-Ring

view on web page



Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	W (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
7661-16FJ16LAR	1	1-5/16x12	-16	3.55	90	1-3/8	1-3/8	1.81	46	17.15	25	Carton

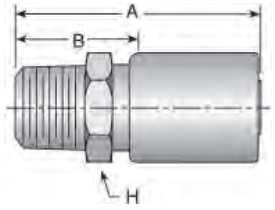
Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 7661/LAR-MP

Male NPTF Pipe – Straight Rigid with Internal O-Ring

view on web page



Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
7661-16MP16LAR	1	1x11-1/2	-16	3.42	87	1-3/8	1.69	43	15.73	25	Carton

Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

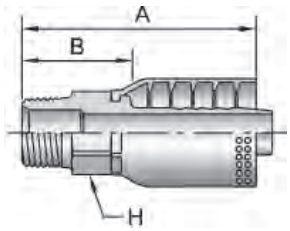
Crimp Specifications

For currently qualified crimp specifications including coupling designation, refer to CrimpSource at www.parker.com/crimpsource.

Series CS

S101CS Male NPTF Pipe – Straight Rigid

view on web page



Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions A (in)	A (mm)	H (in)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
S101CS-12-12	3/4	3/4x14	-12	3.56	90	1-1/8	1.75	44	16.05	25	Carton
S101CS-16-16	1	1x11-1/2	-16	3.94	100	1-3/8	2.00	51	27.43	25	Carton

Material: Plated steel

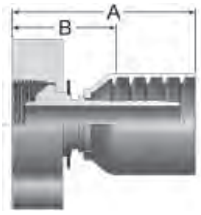
WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 7610/CS

Crimp Coupling for Steam Hose

Female Ground Joint NPSM with Wing Nut and O-Ring

view on web page



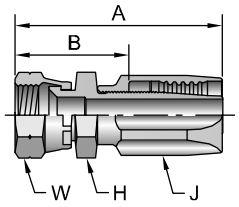
Part Number	Description	Hose ID (in)	Thread (in)	Dimensions A (in)	A (mm)	B (in)	B (mm)	Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
7610-12CSGJF	With Wing Nut	3/4	1-1/2	3.70	94	1.57	40	4.00	4	Carton
7610-12CSGJFS	Spud	3/4	1-1/2	n/a	n/a	n/a	n/a	4.00	4	Carton
7610-16CSGJF	With Wing Nut	1	1-1/2	3.97	100	1.53	39	4.00	4	Carton

Material: Coupling, plated steel; Wing Nut, malleable iron

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Series 20
Reattachable Couplings for LPG Fuel Hose
Female SAE 45° – Straight Swivel

view on web page



Part Number	Hose ID (in)	Thread ID (in)	Thread Dash Size	Dimensions							Approx Wt Per Ctn (lbs)	Std Pack Qty (per carton)	Pkg Type
				A (in)	A (mm)	H (in)	J (in)	W (in)	B (in)	B (mm)			
20820-6-6	5/16	5/8x18	-6	2.36	60	3/4	13/16	3/4	1.44	37	4.20	25	Carton

Material: Plated steel

WARNING: The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

HYDRAULIC TECHNICAL SECTION

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Size

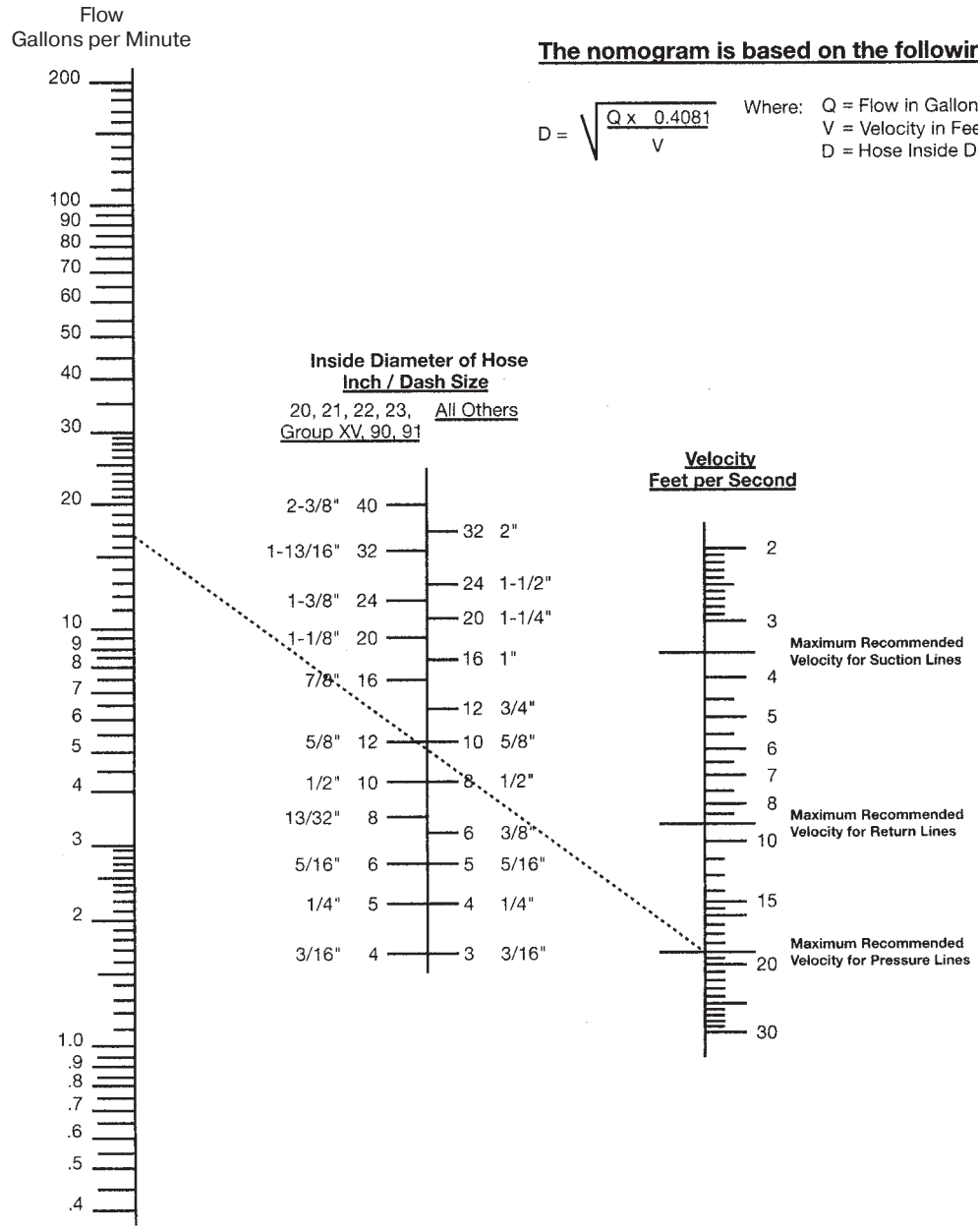
Flow Capacities at Recommended Flow Velocities

The nomogram below is provided as an aid in determining the correct hose size.

How to use the nomogram: Determine the proper flow rate your system requires, then connect a straight edge from the selected flow rate to the recommended velocity range. The required hose I.D. will appear at the intersection of the straight edge and the center column. If the straight edge passes through the scale between sizes listed, use the next larger I.D. hose.

Example: Locate 16 gallons per minute in the left-hand column and 20 feet per second (fps) in the right-hand column (the maximum recommended velocity range for pressure lines). Lay a straight edge across these two points. The inside diameter required is shown in the center column at or above the straight edge. In this case, we need a hose I.D. of 0.625 (5/8") inch (or larger).

Use the same procedure for suction of return lines, except utilizing their respective maximum recommend velocities.



The nomogram is based on the following formula:

$$D = \sqrt{\frac{Q \times 0.4081}{V}}$$

Where: Q = Flow in Gallons per Minute (gpm)
V = Velocity in Feet per Second (ft/sec)
D = Hose Inside Diameter (inches)

Size

Hose Flow Capacities Pressure Drop

Hose Dash Size		-04		-05		-06		-08		-10		-12		-16		-20		-24		-32		-40	-48
Hose I.D. (Inches)		0.19	0.25	0.25	0.31	0.31	0.38	0.41	0.50	0.50	0.63	0.63	0.75	0.88	1.00	1.13	1.25	1.38	1.50	1.81	2.00	2.38	3.00
U.S. Gallons per Minute	0.25	10.0	3.1	3.1																			
	0.5	19.0	6.0	6.0	2.7	2.7																	
	1	40.0	12.0	12.0	5.5	5.5	2.4																
	2	95.0	24.0	24.0	10.0	10.0	4.8	3.5															
	3	185.0	46.0	46.0	17.0	17.0	7.0	5.0	2.2	2.2													
	4		78.0	78.0	29.0	29.0	12.0	8.0	3.0	3.0	1.2	1.2											
	5		120.0	120.0	44.0	44.0	18.0	12.0	4.5	4.5	1.6	1.6	0.7										
	8				95.0	95.0	39.0	26.0	10.0	10.0	3.6	3.6	1.4	0.6									
	10						59.0	40.0	15.0	15.0	5.7	5.7	2.0	1.0	0.6								
	12						80.0	52.0	20.0	20.0	7.2	7.2	2.6	1.5	0.8	0.4							
	15							75.0	30.0	30.0	10.0	10.0	4.2	2.2	1.2	0.7	0.4						
	18							107.0	40.0	40.0	15.0	15.0	6.3	3.0	1.5	0.7	0.6	0.4					
	20								49.0	49.0	19.0	19.0	8.0	3.4	2.0	1.1	0.7	0.4	0.3				
	25								72.0	72.0	26.0	26.0	11.0	5.5	3.0	1.6	1.0	0.6	0.4	0.2			
	30										34.0	34.0	14.0	7.0	3.6	2.2	1.3	0.8	0.5	0.2	0.1		
	35										47.0	47.0	19.0	9.5	5.0	2.8	1.7	1.1	0.7	0.3	0.2		
	40												25.0	12.0	6.5	3.4	2.2	1.4	0.9	0.4	0.2		
	50												36.0	17.0	9.0	5.3	3.3	2.0	1.3	0.5	0.4	0.2	
	60												50.0	23.0	12.0	7.5	4.4	2.8	1.8	0.8	0.5	0.2	
	70													31.0	17.0	9.3	6.0	3.8	2.4	1.0	0.7	0.3	
	80													38.0	21.0	12.0	7.1	4.6	3.0	1.2	0.8	0.3	0.1
	90													49.0	27.0	15.0	9.0	5.9	3.8	1.5	1.0	0.5	0.1
	100														33.0	19.0	12.0	7.0	4.7	1.9	1.3	0.6	0.2
	150														60.0	36.0	22.0	13.0	8.5	3.4	2.2	1.0	0.3
	200																36.0	23.0	15.0	6.0	3.9	1.7	0.6
	250																54.0	33.0	22.0	8.5	5.3	2.5	0.8
	300																	45.0	29.0	12.0	7.5	4.0	1.1
	400																		51.0	21.0	14.0	6.5	2.2
	500																			32.0	20.0	10.0	3.0
	800																					18.0	5.0
	1000																						10.0

Pressure drop in psi (pounds per square inch) per 10 feet of hose (smooth bore) without fittings.
Fluid specification: Specific gravity = 0.85; Viscosity = v = 20 centistokes (C.S.), (20 C.S. = 97 S.S.U.)
Pressure drop values listed are typical of many petroleum based hydraulic oils at approximately +100ºF (+38ºC). Differences in fluids, fluid temperature and viscosity can increase or decrease actual pressure drop compared to the values listed.

Temperature

Temperature / Pressure Chart - 201, 206, 213, and 266 Hose

The Temperature / Pressure Chart identifies the effects temperature change has on the maximum working pressure of specific hoses.

How to use the chart:

1st - Identify the Maximum Working Pressure of selected hose.

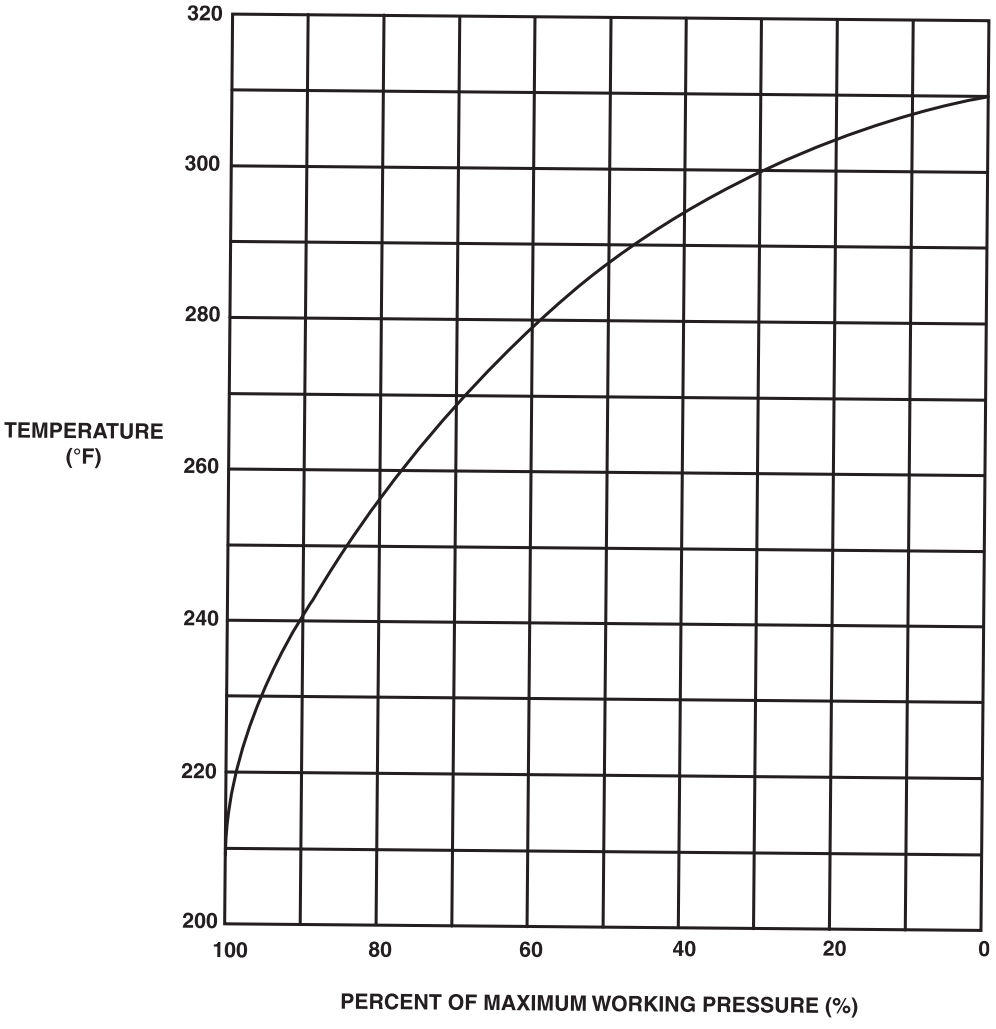
2nd - Identify the maximum working temperature of the application.

3rd - Locate point where temperature and Percent of Maximum Working Pressure intersect on the chart.

4th - Based on percentage figure, calculate Maximum Working Pressure of the application.

Example: 201-8 hose to be used a 250°F (121°C)

Maximum Working Pressure up to 212°F (100°C)	x	(Multiplier from chart)	=	Maximum Working Pressure at 250°F (121°C)
2,000 psi	x	(85%)	=	1,700 psi



Temperature

Minimum/Maximum Temperature

(Page 1 of 4)

Hose Family	Cover (ISO Rating)	Petroleum base hydraulic fluids and lubricating oils	Antifreeze solutions	Diesel fuels	SAE J1942 Marine lube oil and diesel fuel systems (Application Code F)**
Global-Core 187	Standard	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
	TC (AC)	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
	TC (AS)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
	ST (AC)	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
	ST (AS)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
Global-Core 387	Standard	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
	TC	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
	ST	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
Global-Core 487	Standard	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
	TC	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
	ST	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
Global-Core 722	Standard	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
	TC	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
	ST	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
Global-Core 787	Standard	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
	TC (DC)	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
	TC (AC)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
	ST (DC)	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
	ST (AC)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
Global-Core 797	Standard	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
	TC (CC, DC)	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
	TC (AC)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
	ST (CC, DC)	-40°C to +125°C (-40°F to +257°F)	-40°C to +125°C (-40°F to +257°F)	x	x
	ST (AC)	-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
201*		-40°C to +150°C (-40°F to +302°F)	-40°C to +150°C (-40°F to +302°F)	-40°C to +150°C (-40°F to +302°F)	x
206*		-48°C to +150°C (-55°F to +302°F)	-48°C to +150°C (-55°F to +302°F)	-48°C to +150°C (-55°F to +302°F)	x
213*		-45°C to +150°C (-50°F to +302°F)	-45°C to +150°C (-50°F to +302°F)	-45°C to +150°C (-50°F to +302°F)	x
221FR		-20°C to +100°C (-4°F to +212°F)	x	-20°C to +100°C (-4°F to +212°F)	-20°C to +100°C (-4°F to +212°F)
266*		-48°C to +150°C (-55°F to +302°F)	-48°C to +150°C (-55°F to +302°F)	-48°C to +150°C (-55°F to +302°F)	x
271		x	x	x	x
293		-50°C to +150°C (-58°F to +302°F)	-50°C to +150°C (-58°F to +302°F)	-50°C to +150°C (-58°F to +302°F)	x
302		-40°C to +100°C (-40°F to +212°F)	x	x	-40°C to +100°C (-40°F to +212°F)
304		x	x	x	x
422		-40°C to +100°C (-40°F to +212°F)	x	x	-40°C to +100°C (-40°F to +212°F)
424		x	x	x	x
426		-46°C to +150°C (-50°F to +302°F)	x	x	-46°C to +150°C (-50°F to +302°F)
436		-48°C to +150°C (-55°F to +302°F)	x	x	x
471TC/ST		-40°C to +100°C (-40°F to +212°F)	x	x	x
472LT		-57°C to +100°C (-70°F to +212°F)	x	x	x
472TC		-40°C to +100°C (-40°F to +212°F)	x	x	x
482TC/ST		-40°C to +100°C (-40°F to +212°F)	x	x	x
611HT		-48°C to +150°C (-55°F to +302°F)	-45°C to +150°C (-55°F to +302°F)	-45°C to +150°C (-55°F to +302°F)	x

* The maximum working pressures for these hoses are reduced at temperatures above +212°F (+100°C). Consult the pressure/temperature curve on 318 for the reduced maximum working pressure.

** Maximum service pressure for lube oil and fuel systems applications (Code F) may be less than maximum service pressure for other systems applications, e.g., Code H. Refer to individual hose listings in Section A and Hose Assemblies List, SAE J1942-1 or HPD Approval Bulletin #APR-004.

Temperature

Minimum/Maximum Temperature

(Page 2 of 4)

Hose	Cover (ISO Rating)	Air	Water, water/oil emulsion	Water/glycol hydraulic	Water	Phosphate ester fluids	Polyol ester fluids
GlobalCore 187	Standard	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
	TC (AC)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
	TC (AS)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
	ST (AC)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
	ST (AS)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
GlobalCore 387	Standard	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
	TC	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
GlobalCore 487	Standard	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
	TC	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
GlobalCore 722	Standard	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	TC	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	ST	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
GlobalCore 787	Standard	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	TC (DC)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	TC (AC)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	ST (DC)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	ST (AC)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
GlobalCore 797	Standard	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	TC (CC, DC)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	TC (AC)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	ST (CC. DC)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
	ST (AC)	+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
201*		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
206*		+100°C (+212°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
213*		+93°C (+200°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
221FR		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
266*		+93°C (+200°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
271		100°C (212°F)	x	x	x	x	x
293		+93°C (+200°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
302		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
304		+70°C (+158°F)	x	+85°C (+185°F)	+85°C (+185°F)	-40°C to +80°C (-40°F to +176°F)	x
422		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
424		+70°C (+158°F)	x	+85°C (+185°F)	+85°C (+185°F)	-40°C to +80°C (-40°F to +176°F)	x
426		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
436		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
471TC/ST		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
472LT		+70°C (+157°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	
472TC		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
482TC/ST		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	+65°C (+150°F)
611HT		+100°C (+212°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x

*** The maximum working pressures for these hoses are reduced at temperatures above +212°F (+100°C). Consult the pressure/temperature curve on 318 for the reduced maximum working pressure.**

**** Maximum service pressure for lube oil and fuel systems applications (Code F) may be less than maximum service pressure for other systems applications, e.g., Code H. Refer to individual hose listings in Section A and Hose Assemblies List, SAE J1942/1 or HPD Approval Bulletin #APR-004.**

Temperature

Minimum/Maximum Temperature

(Page 3 of 4)

Hose Family	Cover (ISO Rating)	Petroleum base hydraulic fluids and lubricating oils	Antifreeze solutions	Diesel fuels	SAE J1942 Marine lube oil and diesel fuel systems (Application Code F)**
722LT		-57°C to +100°C (-70°F to +212°F)	x	x	x
792LT		-57°C to +100°C (-70°F to +212°F)	x	x	x
F42		x	x	x	x
774		x	x	x	x
781		-40°C to +125°C (-40°F to +257°F)	x	x	x
801		-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
804		x	x	x	x
811		-40°C to +100°C (-40°F to +212°F)	x	x	x
821		-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
821FR		-40°C to +100°C (-40°F to +212°F)	-40°C to +100°C (-40°F to +212°F)	x	x
836		-48°C to +150°C (-55°F to +302°F)	-48°C to +150°C (-55°F to +302°F)	x	x
881		-40°C to +125°C (-40°F to +257°F)	x	x	x
JK		-40°C to +49°C (-40°F to +120°F)	x	x	x
SS25UL		x	x	x	x
811HT		-46°C to +125°C (-50°F to +257°F)	x	x	x

*** The maximum working pressures for these hoses are reduced at temperatures above +212°F (+100°C). Consult the pressure/temperature curve on 318 for the reduced maximum working pressure.**

**** Maximum service pressure for lube oil and fuel systems applications (Code F) may be less than maximum service pressure for other systems applications, e.g., Code H. Refer to individual hose listings in Section A and Hose Assemblies List, SAE J1942/1 or HPD Approval Bulletin #APR-004.**

Temperature

Minimum/Maximum Temperature

(Page 4 of 4)

Hose	Cover (ISO Rating)	Air	Water, water/oil emulsion	Water/glycol hydraulic	Water	Phosphate ester fluids	Polyol ester fluids
722LT		x	x	x	x	x	x
792LT		+70°C (+158°F)	x	x	x	x	x
F42		+70°C (+158°F)	x	x	x	x	x
774		+70°C (+158°F)	x	+85°C (+185°F)	+85°C (+185°F)	–40°C to +80°C (-40°F to +176°F)	x
781		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
801		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
804		+70°C (+158°F)	x	+93°C (+200°F)	+93°C (+200°F)	+80°C (+176°F)	x
811		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
821		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
821FR		+100°C (+212°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
836		+100°C (+212°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
881		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x
JK		x	x	x	x	x	x
SS25UL		x	x	x	x	x	x
811HT		+70°C (+158°F)	+85°C (+185°F)	+85°C (+185°F)	+85°C (+185°F)	x	x

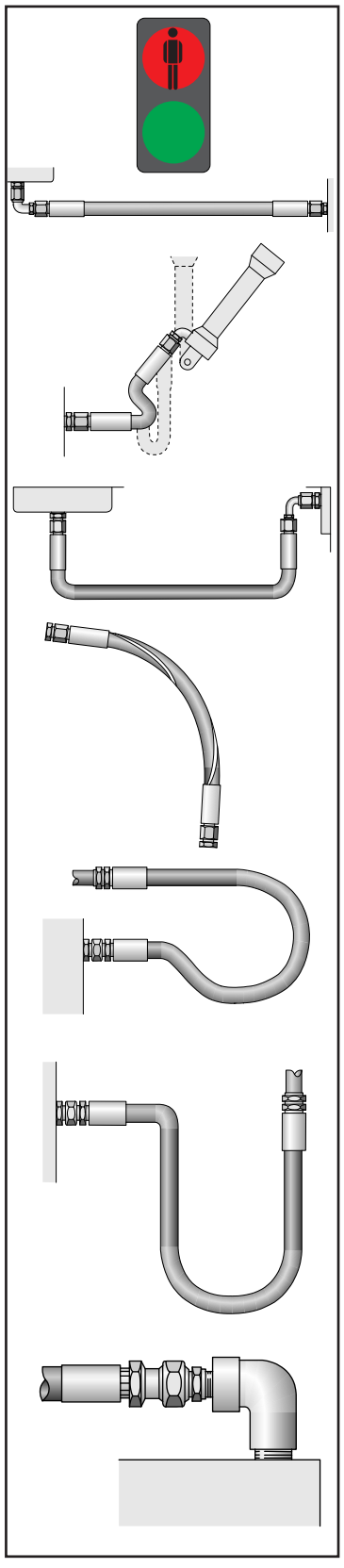
* The maximum working pressures for these hoses are reduced at temperatures above +212°F (+100°C). Consult the pressure/temperature curve on 318 for the reduced maximum working pressure.

** Maximum service pressure for lube oil and fuel systems applications (Code F) may be less than maximum service pressure for other systems applications, e.g., Code H. Refer to individual hose listings in Section A and Hose Assemblies List, SAE J1942/1 or HPD Approval Bulletin #APR-004.

Application

Hose Installation Tips

wrong



The routing of the hose assembly and the environment in which the hose assembly operates directly influence the service life of the hose assembly. The following diagrams indicate the correct routing of hose assemblies that will maximize its service life and assure a safe working functionality.

When hose installation is straight, there must be enough slack in the hose to allow for changes in length that occur when pressure is applied. When pressurized, hose that is too short may pull loose from its hose fittings or stress the hose fitting connections, causing premature metallic or seal failures.

The hose length must be determined so that the hose assembly has enough slack to allow the system components to move or vibrate without creating tension in the hose.

However, do not to allow too much slack and therefore introduce the risk of the hose snagging on other equipment or rubbing on other components.

Mechanical straining of the hoses needs to be avoided, so the hose must not be bent below its minimum bend radius or twisted during installation. The minimum bending radii for each hose is stated in the hose tables in the catalog.

The plane of movement must also be considered and the hose routing selected accordingly.

Hose routing also plays an important role on the selection of the hose fittings, as the correct fittings can avoid straining the hoses, unnecessary hose length or multiple threaded joints.

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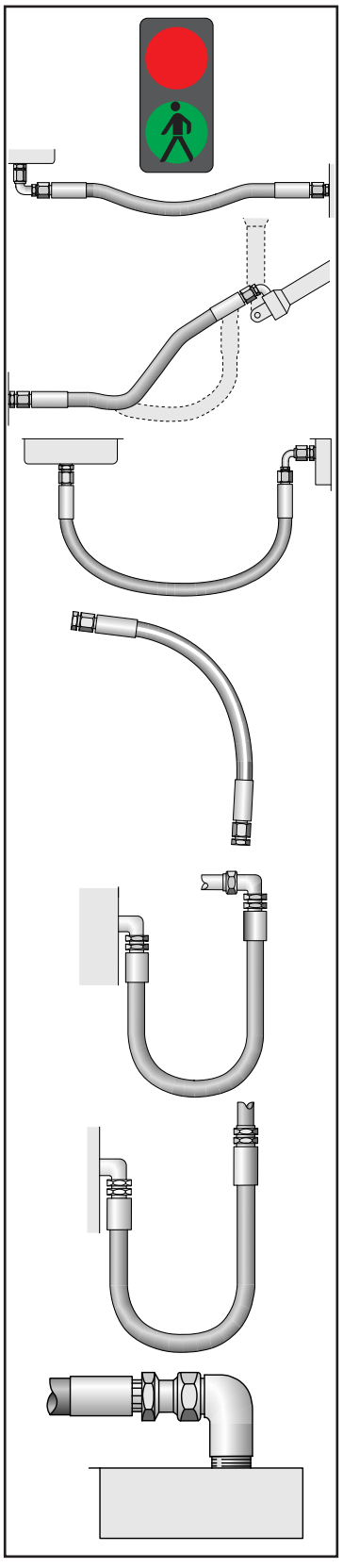

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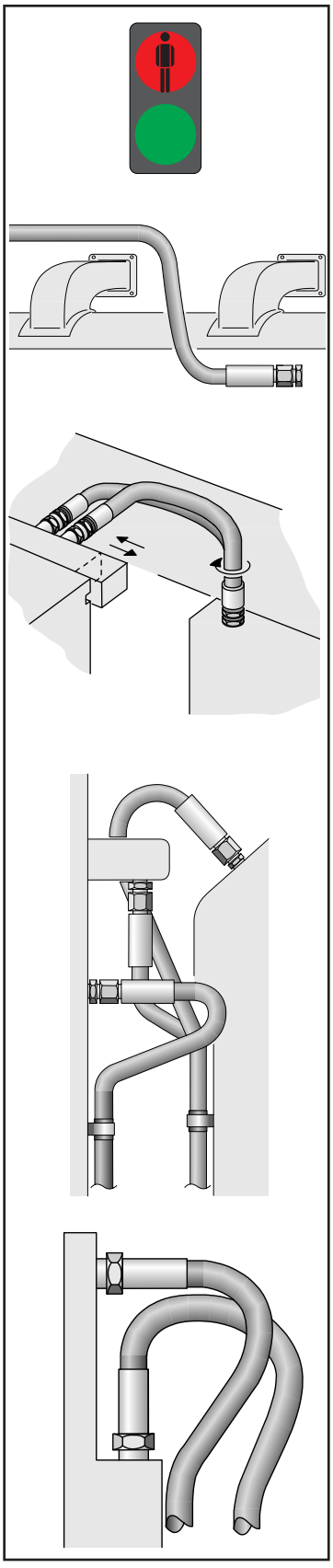

Correct clamping (holding/supporting) of the hose should be exercised to securely route the hose or to avoid the hose contacting surfaces that will cause the hose damage. It is however, vital that the hose be allowed to keep its functionality as a “flexible-pipe” and not be restricted from changing in length when under pressure.

It should also be noted that hoses for high- and low-pressure lines shall not be crossed or clamped together, as the difference in changes in length could wear the hose covers.

Hose should not be bent in more than one plane. If hose follows a compound bend, it shall be coupled into separate segments or clamped into segments that each flex in only one plane.

Hoses should be kept away from hot parts as high ambient temperatures shorten hose life. Protective insulation may need to be used in unusually high ambient temperature areas.

While the importance of the functionality is primary, the aesthetics and practicality of the installation should also be considered in the design. Maintenance might be necessary at some point in the future, so prohibitive design routings should be avoided.

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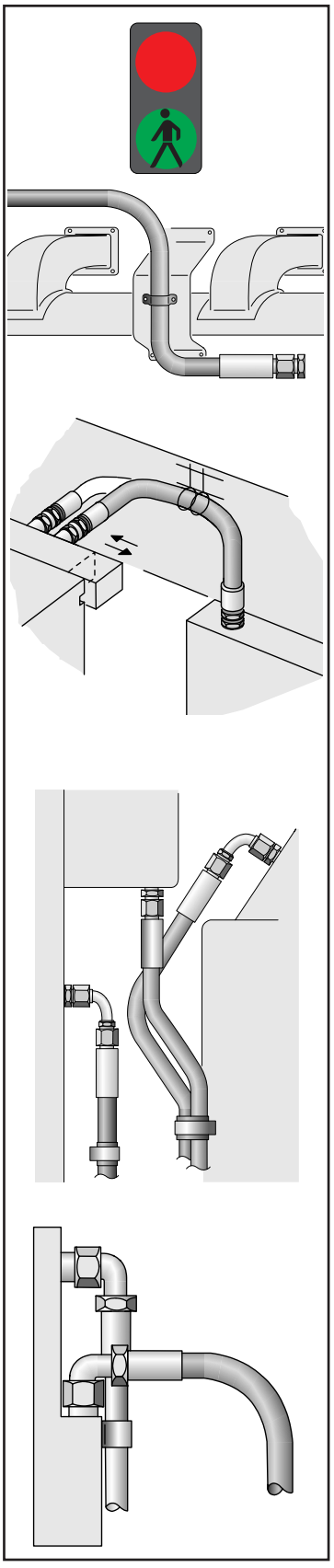

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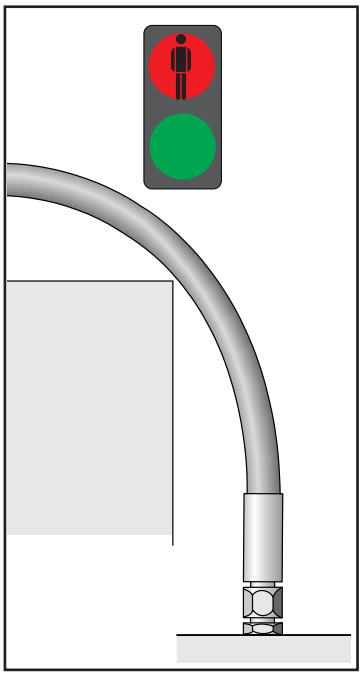

Abrasive influences

In general care should be taken so that the hose is not exposed to direct surface contact that will cause abrasive wearing of the outer cover (either hose to object or hose to hose contact). If however, the application is such that this cannot be avoided, either a hose with a higher abrasion resistant hose cover or a protective sleeve need to be used.

Parker TOUGH COVER (C) or SUPER TOUGH covers offer 80 times or respectively 450 times the abrasion resistance of standard rubber covers.

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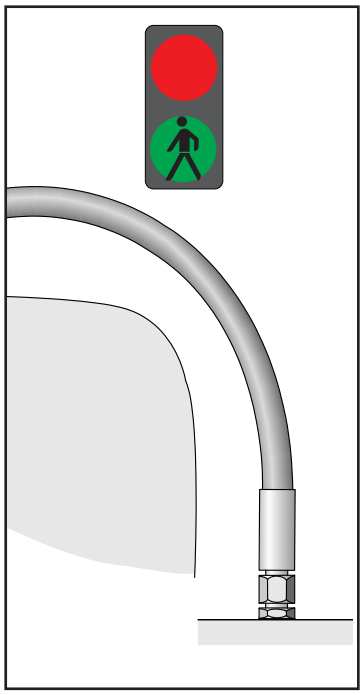
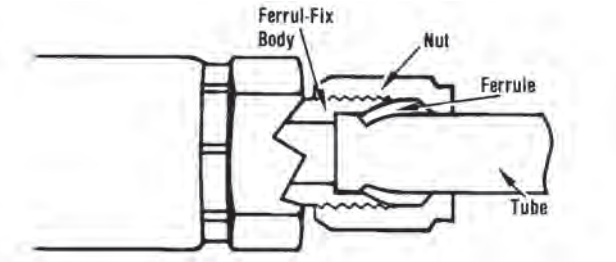


Application

Ferrule-Fix



Fast, on-the-job repair for ruptured bent tube hose assemblies and power steering lines.

The life of the combination tube-hose assembly is often limited to the service life of the hose alone. A replacement assembly may not be available, some equipment dealers are unable to stock all of the many odd tube configurations.

Parker FERRUL-FIX, a field attachable, reusable hose end fitting, now makes it possible to salvage the bent tube section of the original assembly for replacement. Most important, it gets you back into operation FAST!

- Gets you back in operation fast - No costly delays while replacement assemblies are rushed from the factory.
- Lets you reuse expensive bent tube ends with Parker Hose fittings - You can replace the hose at a fraction of the cost of complete assembly.
- Eliminates the need for emergency brazing or welding in the field - Ferrul-Fix can be assembled without special tools or equipment when using Parker Reusable Hose fittings.

3-Piece Design - Body, nut and ferrule. Wedging action of ferrule, when drawn down by nut, forms seal between body and ferrule, while cutting edge of ferrule "bites" into tube wall forming another positive seal.

Visible Bite - Extent of bite at cutting edge of ferrule is completely visible when fitting is dis-assembled, an important safety feature. Self-centering action assures even bite around circumference of tube.

Parkerized Finish - Ferrul-Lok fittings have the Parkerized black finish, providing "built-in" lubrication which reduces wrench torque required.

Ferrul-Fix Installation Instructions

1. Cut the formed tube off squarely next to the permanent hose fitting. Lightly deburr the end of the tube internally and externally.
2. Disassemble the Ferrul-Fix fitting, and lubricate threads and both ends of the ferrule with Parker Ferulube.
3. Slide nut and ferrule onto tubing, with the long, straight end of the ferrule pointing toward the tube end.
4. Insert tube end into the Ferrul-Fix body until it bottoms against the shoulder. Slide ferrule inside body, and screw nut down finger tight.
5. Wrench nut down 1-3/4 turns to preset the ferrule.
6. Disconnect nut and inspect lead edge of ferrule to make certain that the biting edge has turned up a shoulder to a height of at least 50% of the ferrule and completely around the tube.
7. Assemble Ferrul-Fix fitting to hose. Refer to assembly instructions listed in appropriate fittings section. Do not assemble to hose before steps 1-6.
8. Reassemble tubing into Ferrul-Fix end and turn nut down easily until a sudden increase in force is evident. Turn bent tube to proper position if required. Using two wrenches, one on the fitting nipple hex and the other on the nut tighten nut an additional 1/6 turn (one wrench flat).

Application Performance Standards and Specifications

Hose	Meets or Exceeds:						
	ISO	SAE	EN	NFPA	EES	DOT	UL
187	ISO 18752						
187TC	ISO 18752						
187ST	ISO 18752						
387	ISO 18752						
387TC	ISO 18752						
387ST	ISO 18752						
487	ISO 18752						
487TC	ISO 18752						
487ST	ISO 18752						
722 (-6 through -16)	ISO 18752						
722TC (-6 through -16)	ISO 18752						
722ST (-6 through -16)	ISO 18752						
787	ISO 18752						
787TC	ISO 18752						
787ST	ISO 18752						
797	ISO 18752						
797TC	ISO 18752						
797ST	ISO 18752						
201		SAE J517 100R5 / SAE J1402 AII				DOT FMVSS 106 AIR BRAKE - AII	
206		SAE J517 100R5 / SAE J1402 AII				DOT FMVSS 106 AIR BRAKE - AII	
213		SAE J1402 AI				DOT FMVSS 106 AIR BRAKE - AI	
221FR	ISO 7840	SAE J1527 A CLASS I / SAE J1942					
244		SAE J2064 B CLASS I					
266		SAE J1402 AII				DOT FMVSS 106 AIR BRAKE - AII	
271		SAE J1402 A				DOT FMVSS 106 AIR BRAKE - A	
285		SAE J2064 C (w/ 26 series)					
293		SAE J1402 AI				DOT FMVSS 106 AIR BRAKE - AI	
302	ISO 1436-1 Type 2SN	SAE J517 100R2AT / SAE J1942	EN 853 Type 2SN				
304							
422	ISO 1436-1 Type 1SN	SAE J517 100R1AT / SAE J1942	EN 853 Type 1SN				
424							
426		SAE J517 100R1AT / SAE J1942					
436	ISO 11237 Type R16	SAE J517 100R16					
471TC	ISO 11237 Type 2SC	SAE J1942	EN 857 Type 2SC				
471TC Twin Tough	ISO 11237 Type 2SC	SAE J1942	EN 857 Type 2SC				
471ST	ISO 11237 Type 2SC	SAE J1942	EN 857 Type 2SC				

KEY TO UNDERSTANDING AGENCY APPROVALS FOR BUILDING HOSE ASSEMBLIES

ABS Approved assemblies can be manufactured at any location with Parker's permission. No restrictions.

DNV Approved assemblies can only be manufactured in a Parker approved location that demonstrates a quality system and management program is in place and must be audited by DNV. Each location must be granted a "license" issued by Parker HPD for building hose assemblies. Three exist today; Davenport Iowa, Grimsby Canada, and Yangsan Korea.

BV Approved assemblies can only be produced in a BV approved location that demonstrates a quality system and management program is in place. Each location must have an initial audit performed by BV before the "license" can be issued. Additionally, ongoing audits setup by BV will be required at each approved location. Davenport Iowa is our only approved assembler.

UL "Listed" Assemblies must be made at Davenport Iowa

CSA/CGA Assemblies must be made at Davenport Iowa

Application Performance Standards and Specifications

Hose	Meets or Exceeds:			Agency Approvals:												
	ECE	CSA	AS/NZS	ABS	DNV	USCG	LR	MSHA	BV	CSA	RDW	UL	AGA	DOT	IMCI	NK
187																
187TC				•	•	•		•								
187ST				•	•	•		•								
387																
387TC				•	•	•	•	•								
387ST				•	•	•	•	•								
487																
487TC				•	•	•	•	•								
487ST				•	•	•	•	•								
487CP								•								
722 (-6 through -16)						•		•								
722TC (-6 through -16)				•	•	•	•	•								
722ST (-6 through -16)				•	•	•	•	•								
777TC								•								
777ST								•								
777CP								•								
787								•								
787TC				•	•	•	•	•								
787ST				•	•	•	•	•								
787CP								•								
797								•								
797TC				•	•	•	•	•								
797ST				•	•	•	•	•								
797CP								•								
201														•		
206														•		
213														•		
221FR				•	•	•	•	•							•	
244																
266														•		
271														•		
285																
293														•		
302				•	•	•			•							•
304																
422				•	•	•										
424																
426				•		•		•								
436				•		•		•								
471TC				•	•	•		•	•							
471TC Twin Tough				•	•	•		•	•							
471ST				•	•	•		•								

Notes:
(1) U.S.C.G./MTH (Marine Technical & Hazardous Materials Branch) hoses, hose assemblies and appropriate fittings meet 46CFR56.60-25(c) for use on commercial vessels. Hoses and hose assemblies meet the requirements of SAE J1942. Hose fittings meet the requirements of SAE J1475.
F = Fuel and lube systems.
H = Hydraulic Systems.
*Some hoses are accepted for different pressures for F and H. Also, not all sizes are accepted for all applications. See HPD approval bulletin #APR-004 or consult the Parker Hose Products Division, Technical Services Department, for details. The Canadian Coast Guard accepts all hoses accepted by the U.S. Coast Guard.

(2) Det Norske Veritas (DnV) approvals are with permanent (crimp) type fittings only. See HPD Approval Bulletin #APR-006 or consult the Parker Hose Products Division, Technical Services Department, for details.
(3) Hose with MSHA (Mine Safety and Health Administration) approved flame resistant cover will be marked accordingly on the layline.
(4) 221FR is type accepted by Lloyd's Register. It meets the requirements of the American Boat and Yacht council. 221FR is certified to meet the EC Directive 94/25/EC in accordance with ISO 7840.
For questions on standards and specifications please contact the Hose Products' Technical Services Department at (440) 943-5700.

Application Performance Standards and Specifications

Continued from previous page

Hose	Meets or Exceeds:						
	ISO	SAE	EN	NFPA	EES	DOT	UL
472TC		SAE J1942					
472LT			EN 857 Type 2SC				
482TC	ISO 1436-1 Type 1SN	SAE J517 100R1AT / SAE J1942	EN 853 Type 1SN				
482ST	ISO 1436-1 Type 1SN	SAE J517 100R1AT	EN 853 Type 1SN				
611HT		SAE J517 100R6	EN 854 Type R6				
722TC (-20 through -32)	ISO 3862-1 Type R12	SAE J517 100R12 / SAE J1942	EN 856 Type R12				
722ST (-20 through -32)	ISO 3862-1 Type R12	SAE J517 100R12 / SAE J1942	EN 856 Type R12				
722LT	ISO 3862-1 Type R12	SAE J517 100R12	EN 856 Type R12				
774							
792LT	ISO 3862-1 Type R15	SAE J517 100R15	EN 856 Type R15				
801							
804							
811		SAE J517 100R4 / SAE J1942					
811HT		SAE J517 100R4 / SAE J1942					
821							
821FR							
836							
881		SAE J517 100R4 / SAE J1942					
F42							
JK	ISO 1436-1 Type 2SN	SAE J517 100R2AT	EN 853 Type 2SN	NFPA 1936	EES 116-4		
SS25UL (-4 through -12)				NFPA 58			UL 21
SS25UL-AGA (-4, -6, - 8)							

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	ECE	CSA	AS/NZS	ABS	DNV	USCG	LR	MSHA	BV	CSA	RDW	UL	AGA	DOT	IMCI	NK
472TC				•	•	•		•								
472LT						•		•								
482TC						•		•								
482ST								•								
611HT								•								
721								•								
722ST (-20 through -32)				•	•	•	•	•								
722LT								•								
774																
792LT								•								
801								•								
804																
811						•										
811HT				•		•		•								
821																
821FR																
836								•								
881				•		•		•								
F42																
JK								•								
SS25UL (-4 through -12)												•				
SS25UL-AGA (-4, -6, -8)			AS/NZS 1869-2012 Class D										•			

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For questions on standards and specifications please contact the Hose Products' Technical Services Department at (440) 943-5700.

JIS - Adapters

JIS B8363 Code	Parker Part Number	Mates with End Configuration
A1	F3T4	FU
A2	F3P4	GU
A3	F63P4	UT
E1	C3T4	FU
E2	C3P4	GU
E3	V3T4	FU
E4	V3P4	GU

Note: See website at www.Parker/tfd.com, Catalog 4300 or call (614) 279-7070 for additional information.

JIS - Hose Fittings

JIS B8363 Code	Parker End Configeration Code	Fitting Series 43	Fitting Series 70	Fitting Series 71	Fitting Series 79
R	UT	X		X	
F	FU	X		X	
C	GU	X	X	X	
MF	MU	X		X	
S	15	X	X	X	
4S	17	X	X	X	
9S	19	X	X	X	
H	6A		X	X	X
4H	6F			X	X
9H	6N		X	X	X

Note: Parker Hose Standards are listed on page 448 thru 451.

JIC 37° and SAE 45° Flare

Parker's recommended assembly method for JIC 37° flare and SAE 45° flare is the Flats From Wrench Resistance (FFWR) method. This includes steel as well as other materials.

The torque values assigned by size are for reference only, and are only applicable to Parker system components using the FFWR method with trivalent chromate passivation on zinc plating of carbon steel components without lubrication.

Dash Size	Flats From Wrench Resistance (FFWR)	Swivel Nut Torque	
		Newton Meters (Ref)	Pound Feet (Ref)
-4	2	18	13
-5	2	19	14
-6	1-1/2	30	22
-8	1-1/2	57	42
-10	1-1/2	81	60
-12	1-1/4	114	84
-16	1	160	118
-20	1	228	168
-24	1	265	195
-32	1	360	265

Seal-Lok®

Parker's recommended assembly method for Seal-Lok® connections is the torque method.

Dash Size	Swivel Nut Torque		Flats From Wrench Resistance (FFWR)
	Newton Meters (+10% / -0)	Pound Feet (+10% / -0)	
-4	25	18	1/2 - 3/4
-6	40	30	1/2 - 3/4
-8	55	40	1/2 - 3/4
-10	80	60	1/2 - 3/4
-12	115	85	1/3 - 1/2
-16	150	110	1/3 - 1/2
-20	205	150	1/3 - 1/2
-24	315	230	1/3 - 1/2
-32	-	-	-

Note: The assembly torques listed are higher than the test torques published in SAE J1453.

Torque Conversion Equivalents

Torque Conversion Equivalents Pound Inch - Pound Foot - Newton Meter		
Pound Foot x 12	=	Pound Inch
Pound Foot x 1.356	=	Newton Meter
Newton Meter x 8.850	=	Pound Inch
Newton Meter x 0.737	=	Pound Foot
Pound Inch x .083	=	Pound Foot
Pound Inch x 0.113	=	Newton Meter

The torque values for other materials are as follows:

- Brass fittings and adapters - 65% of the torque value for steel.
- Stainless steel, and Monel - Use 5% higher than listed for steel. Threads to be lubricated for these materials.·
- Dissimilar metals - use torque value designated for the lower of the two metals.
- All fittings are dry except as noted above.

The Flats From Wrench Resistance (FFWR) and torque values listed above are consistent with the values recommended by Parker Tube Fittings Division (614) 279-7070 or www.parker.com/tfd).

Identifying Fitting Types

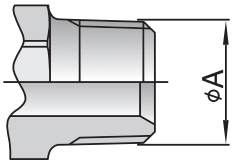
In general fittings can be identified by their visual appearance, their sealing surface/sealing type or by their thread type/form. Viewing the following pages, the visual identification will be self explanatory. The sealing mechanism and the method of thread identification, however, needs further explanation

Determining Sealing Mechanisms:

- Thread interface
- O-ring
- Matching angle or metal-to-metal joint
- Mated angle with O-ring

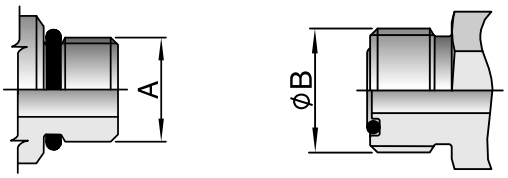
Thread Interface

The sealing is assured by the flattening of the edges of the threads when the male is screwed into the female fitting. Typically the front of the male fittings is narrower than the back of the fittings – often referred to as tapered threads.



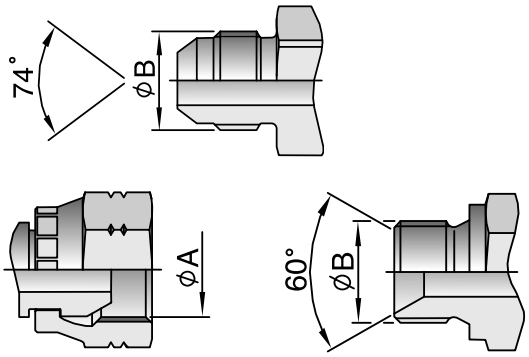
O-ring

The O-ring on the male is compressed against the corresponding female and assures the seal. This type of sealing mechanism should be the preferred choice for high-pressure applications.



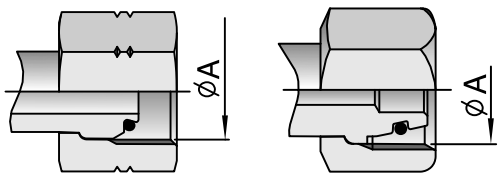
Matching Angle or Metal-to-Metal Joint

Sealing takes place where the two angled faces of the male and corresponding female meet and are wedged into one another by the tightening of the threaded nut. The sealing surfaces can either be convex or concave (seat) on the male or in the head of the pipe of the female as shown.



Matching Angle with O-ring

These fittings combine the functionality of both the matching angle seal with the O-ring. The O-ring is in the angled sealing surface of the fitting so that when the threaded male and female are screwed together the sealing surfaces wedge together and at the same time deform the O-ring between them.

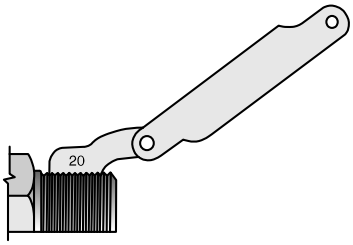


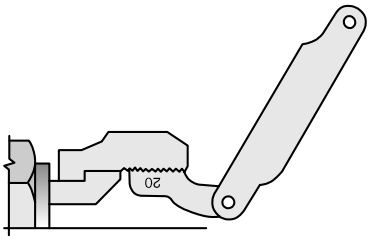
Determining the Thread Type

In general of the threads of various fittings look similar and hinder the easy identification of the thread. To assure the correct identification, the threads must be measured and compared to the tables listed in the following section.

Thread Gauge

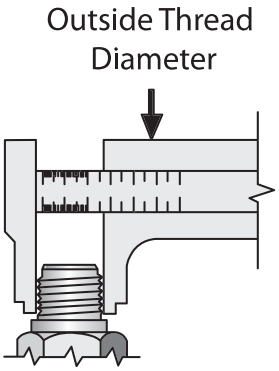
Using a thread gauge, the number of threads per inch can be determined. Holding the gauge and coupling threads in front of a lighted background helps to obtain an accurate measurement.

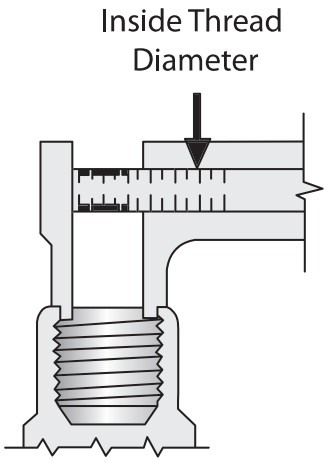




Caliper Measure

A vernier caliper should be used to measure the thread diameter of the largest point. (Outside diameter (O.D.) of male threads – Inside Diameter (I.D.) of female threads.)





German DIN Hose Fittings

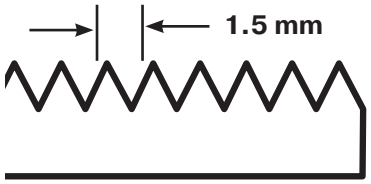
Often referred to as metric fittings, these fittings seal using the angled sealing surfaces (metal-to-metal) or the combination of metal-to-metal with O-rings.

They are available in very light (LL), light (L) or heavy series (S).

The sealing face angles are either 24˚ with or without O-rings, or 24˚/60˚ universal cones.

Identification is made by measuring the thread size and also the tube outside diameter.

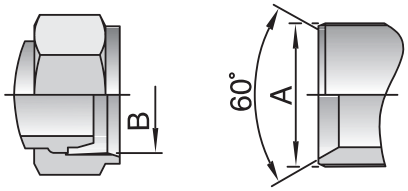
Defined by the outside diameter and the pitch (distance between 2 crests of the thread) example: M22x1.5 - pitch of 1.5mm.



DIN Very Light Series (LL)

The male 60˚ cone will mate with the female 60˚ cone only.
The male has a 60˚ sealing angle (seat) and straight metric thread. The female has a 60˚ seat and straight metric thread.

Standard
DIN 20078 Part 3 [1)]
Parker end configurations
C0



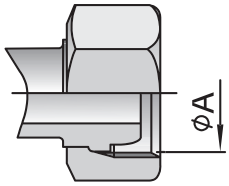
Tube O.D. (DN)	Thread metric	ØA (mm)	ØB (mm)
20	M30x1.5	30.00	28.50
25	M38x1.5	38.00	36.50
32	M45x1.5	45.00	43.50
40	M52x1.5	52.00	50.50
50	M65x2	65.00	63.00

DIN Light (L) and Heavy Series (S) without O-ring

The male 24˚ cone will mate with the female universal 24˚ or 60˚ cone only.

The male has a 60˚ sealing angle (seat) and straight metric threads. The female has a 24˚ and 60˚ universal seat and straight metric threads.

Standard
DIN 20078 Part 2 [1)]
(previously known as
DIN 20078 A, D & E)
Parker end configurations
light series
C3, C4, C5, C6
(Often also referred to
as “Ball nose cones”)

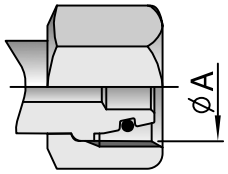


without O-ring

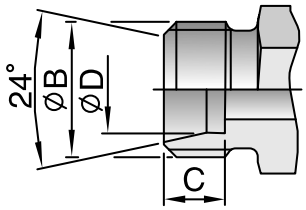
[1)] **obsolete standard, no exact replacement**

DIN 24° Light (L) and Heavy Series (S) with O-ring

The male has a 24° sealing angle cone seat with straight metric threads. The female has a 24° convex cone with O-ring and a swivel straight metric threaded nut.



with O-ring



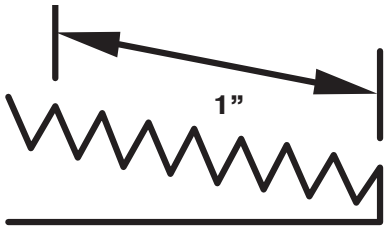
Standard
ISO 12151-2 / ISO 8434-1 & ISO 8434-4
(Previously
DIN 20 078 Part 4, 5, 8, 9)
Parker end configurations
light series
CA, CE, CF, D0
Parker end configurations
heavy series
C9, 0C, 1C, D2

Tube O.D. (mm)	Spec.	Thread metric	ØA (mm)	ØB (mm)	C (mm)	ØD (mm)
6.00	6L	M12X1.5	10.50	12.00	7.00	6.20
6.00	6S	M14X1.5	12.50	14.00	7.00	6.20
8.00	8L	M14x1.5	12.50	14.00	7.00	8.20
8.00	8S	M16x1.5	14.50	16.00	7.00	8.20
10.00	10L	M16x1.5	14.50	16.00	7.00	10.20
10.00	10S	M18x1.5	16.50	18.00	7.50	10.20
12.00	12L	M18x1.5	16.50	18.00	7.00	12.20
12.00	12S	M20x1.5	18.50	20.00	7.50	12.20
14.00	14S	M22x1.5	20.50	22.00	8.00	14.20
15.00	15L	M22x1.5	20.50	22.00	7.00	15.20
16.00	16S	M24x1.5	22.50	24.00	8.50	16.20
18.00	18L	M26x1.5	24.50	26.00	7.50	18.20
20.00	20S	M30x2	27.90	30.00	10.50	20.20
22.00	22L	M30x2	27.90	30.00	7.50	22.20
25.00	25S	M36x2	33.90	36.00	12.00	25.20
28.00	28L	M36x2	33.90	36.00	7.50	28.20
30.00	30S	M42x2	39.90	42.00	13.50	30.20
35.00	35L	M45x2	42.90	45.00	10.50	35.30
38.00	38S	M52x2	49.90	52.00	16.00	38.30
42.00	42L	M52x2	49.90	52.00	11.00	42.30

British Standard Pipe (BSP)

Also referred to as Whitworth threads, the BSP thread type fittings seal use metal-to-metal angled surfaces or a combination of metal-to-metal and an O-ring.
The angle of the sealing surfaces is 60° for both forms.
There are two popular thread forms:
British Standard Pipe Parallel (BSPP) and
British Standard Pipe Tapered (BSPT).

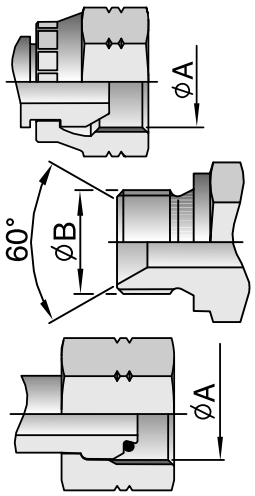
Identification is made by measuring the outside diameter of the thread and the number of threads per inch (25.4 mm)



BSPP

BS5200
Parker end configurations
92, B1, B2, B4, D9

BSPP
metal-to-metal with O-ring
Standard
ISO 12151-6
Some Parker end configurations may be non-standard parts.

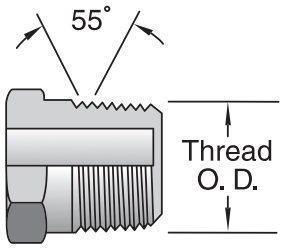


Tube I.D./O.D. (mm)	Size	Thread BSP	ØA (mm)	ØB (mm)
6/10	-2	1/8x28	8.60	9.70
8/13	-4	1/4x19	11.50	13.20
12/17	-6	3/8x19	14.90	16.70
15/21	-8	1/2x14	18.60	20.90
18/23	-10	5/8x14	20.60	22.90
20/27	-12	3/4x14	24.10	26.40
26/34	-16	1x11	30.30	33.20
33/42	-20	1-1/4x11	38.90	41.90
40/49	-24	1-1/2x11	44.90	47.80
50/60	-32	2x11	56.70	59.60

BSPT

fittings seal through the thread interface mechanism. Care should be taken not to confuse the BSPT fitting with the NPTF male fitting. BSPT has a 55° thread angle. NPTF has 60° thread angle.

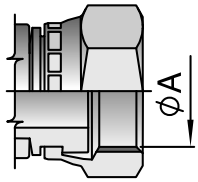
Parker end configuration
91



Tube I.D./O.D. (mm)	Size	Thread BSP	ØA (mm)
5/10	-2	1/8x28	9.73
8/13	-4	1/4x19	13.16
12/17	-6	3/8x19	16.66
15/21	-8	1/2x14	20.96
20/27	-12	3/4x14	26.44
26/34	-16	1x11	33.25
33/42	-20	1-1/4x11	41.91
40/49	-24	1-1/2x11	47.80
50/60	-32	2x11	59.61

BSP Flat Seal

These fittings have BSP parallel threads but the sealing surface is flat. The seal is made when the composite seal is compressed against the female flat face.
Some Parker end configurations may be non-standard parts.



Tube I.D./O.D. (mm)	Size	Thread BSP	ØA (mm)
6/10	-2	1/8x28	8.6
8/13	-4	1/4x19	11.5
12/17	-6	3/8x19	14.9
15/21	-8	1/2x14	18.6
18/23	-10	5/8x14	20.6
20/27	-12	3/4x14	24.1
26/34	-16	1x11	30.3

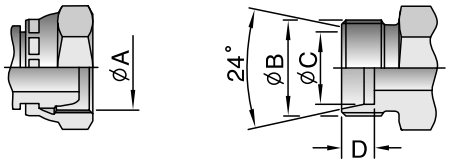
French Gas Fittings

Typical to the French market the French Gas fittings have a 24° sealing surfaces seat with metric straight threads. Although similar to German DIN fittings the threads differ in some sizes as the French Gas fittings have fine threads in all sizes whereas the German DIN fittings use standard threads in the larger sizes.

French Metric 24° Cone Gas Fittings

The sealing mechanism is metal-to-metal.
The fittings are not specified in any international standard.

Some Parker end configurations may be non-standard parts.



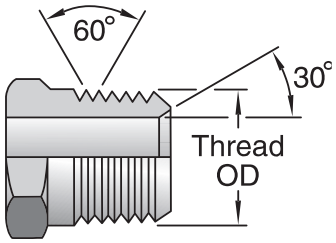
Tube O.D. (mm)	Spec.	Thread metric	ØA (mm)	ØB (mm)	ØC (mm)	D (mm)
6.00	6N	M12x1	11.00	12.00	6.20	9.00
8.00	8N	M14x1.5	12.50	14.00	8.15	9.00
10.00	10N	M16x1.5	14.50	16.00	10.20	9.00
12.00	12N	M18x1.5	16.50	18.00	12.15	9.00
13.25	13G	M20x1.5	18.50	20.00	13.50	9.00
14.00	14N	M20x1.5	18.50	20.00	14.15	9.00
15.00	15N	M22x1.5	20.50	22.00	15.15	9.00
16.00	16N	M24x1.5	22.50	24.00	16.15	9.00
16.75	17G	M24x1.5	22.50	24.00	17.00	9.00
18.00	18N	M27x1.5	25.50	27.00	18.15	9.00
20.00	20N	M27x1.5	25.50	27.00	20.15	9.00
21.25	21G	M30x1.5	28.50	30.00	21.50	9.00
22.00	22N	M30x1.5	28.50	30.00	22.15	9.00
25.00	25N	M33x1.5	31.50	33.00	25.15	9.00
26.75	27G	M36x1.5	34.50	36.00	27.00	9.00
28.00	28N	M36x1.5	34.50	36.00	28.25	9.00
30.00	30N	M39x1.5	37.50	39.00	30.25	9.00
32.00	32N	M42x1.5	40.50	42.00	32.25	9.00
33.25	34G	M45x1.5	43.50	45.00	33.80	9.00
35.00	35N	M45x1.5	43.50	45.00	35.25	9.00
38.00	38N	M48x1.5	46.50	48.00	38.25	9.00
40.00	40N	M52x1.5	50.50	52.00	40.35	9.00
42.25	42G	M52x1.5	50.50	52.00	42.55	9.00
48.25	49G	M58x2	55.90	58.00	49.00	11.00

North American Thread Types

This type of fitting uses the thread interface to seal and as such has a tapered thread that deforms and forms the seal.
They have 30˚ sealing angle surfaces, forming a 60˚ inverted (concave) seat.
The fittings are most frequently seen on machines of US origin.

Dryseal American Standard Taper Pipe Thread (NPTF)

The NPTF male will mate with the NPTF, NPSF, or NPSM females.
Care should be taken not to confuse the NPTF fitting with the BSPT male fitting.
NPTF fittings have a 60˚ thread angle.
BSPT has a 55˚ thread angle.
Standard
SAE J516



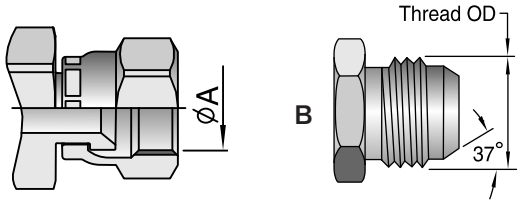
ØA dimension is measured on the 4th pitch of the thread

Size	Thread NPTF	ØA (mm)	ØB (mm)
-2	1/8x27	10.24	8.73
-4	1/4x18	13.61	11.90
-6	3/8x18	17.05	15.90
-8	1/2x14	21.22	19.05
-12	3/4x14	26.56	24.60
-16	1x11.5	33.22	30.95
-20	1-1/4x11.5	41.98	39.69
-24	1-1/2x11.5	48.05	45.24
-32	2x11.5	60.09	57.15

Parker end configuration
01

SAE JIC 37˚

Commonly referred to as JIC fittings, these metal-to-metal sealing type fittings have a 37˚ flare (sealing surface angle) and straight United National Fine Threads (UNF).
The original design specification for the fittings comes from the Society of Automotive Engineers (SAE) and these fittings are the most common American fitting types in Europe.
Standard
ISO 12151-5, ISO8434-2 and SAE J516



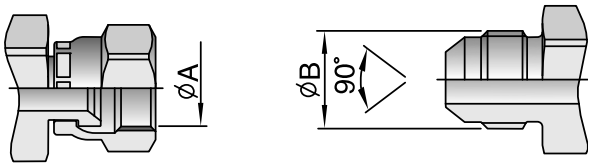
Tube O.D. (inch)	Tube O.D. (mm)	Thread UNF	Size	ØA (mm)	ØB (mm)
3/16		3/8x24	-3	8.60	9.50
1/4	6	7/16x20	-4	10.00	11.10
5/16	8	1/2x20	-5	11.60	12.70
3/8	10	9/16x18	-6	13.00	14.30
1/2	12	3/4x16	-8	17.60	19.10
5/8	14-15-16	7/8x14	-10	20.50	22.20
3/4	18-20	1-1/16x12	-12	24.60	27.00
7/8	22	1-3/16x12	-14	28.30	30.10
1	25	1-5/16x12	-16	31.30	33.30
1-1/4	30-32	1-5/8x12	-20	39.20	41.30
1-1/2	38	1-7/8x12	-24	45.60	47.60
2		2-1/2x12	x32	61.50	63.50

Parker JIC hose fittings are fully compatible with Parker Triple-Lok Tube Fittings and adapters.

Parker end configurations
03, 06/68, 37/3V, 39/3W, 41/3Y, L9

SAE 45° Flare

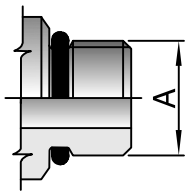
The angle of the flare is commonly used as a name when referring to these metal-to-metal sealing fittings.
The female fittings have a 90° concave inverted seat, created by the 45° angle sealing surfaces.
The SAE 45° flare male will mate with an SAE 45° flare female only or a dual seat JIC 37°/SAE45°.
Standard
SAE J516
Parker end configurations
04, 08/68, 77/3V, 79/3W, 81/3Y



Tube O.D. (inch)	Size	Thread UNF	ØA (mm)	ØB (mm)
1/4	x4	7/16x20	9.90	11.10
5/16	-5	1/2x20	11.50	12.70
3/8	-6	5/8x18	14.30	15.90
1/2	-8	3/4x16	17.50	19.10
5/8	-10	7/8x14	20.60	22.20
3/4	-12	1-1/16x14	25.00	27.00

SAE O-ring (Boss Type)

This male fitting has straight threads, a sealing face and an O-ring. It is compatible only with female boss type fittings generally found in the ports of machines. Sealing is achieved through the O-ring of the male and through the sealing face of the female.
Parker end configuration
05

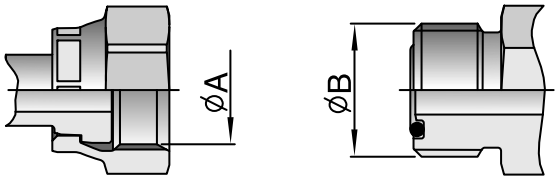


Thread UNF	Size	ØA (mm)
5/16x24	-2	7.93
3/8x24	-3	9.52
7/16x20	-4	11.11
1/2x20	-5	12.70
9/16x18	-6	14.28
3/4x16	-8	19.10
7/8x14	-10	22.22
1-1/16x12	-12	27.00
1-3/16x12	-14	30.10
1-5/16x12	-16	33.30
1-5/8x12	-20	41.30
1-7/8x12	-24	47.60
2-1/2x12	-32	63.50

O-ring Face Seal (ORFS)

ORFS fittings are becoming the most popular international fitting type used on global OEM machines due to their high level of sealing and their good vibration resistance.
The fittings use the O-ring compression mechanism to seal.
The female fittings have flat faces and straight threaded UNF swivel nuts. The male fittings have the O-ring in a groove in the flat face.
Seen as a major advantage, these fittings offer the possibility to build the hose assemblies into fixed distances/spaces, without having to move back other system components due the flat faces of the male and female fittings – the hose assembly can be slotted in.

Standard
ISO 12151-1, ISO8434-3 and SAE J516
Parker end configurations
JC, JM/J0, JS, JU, J1, J3, J5, J7, J9



Tube O.D. (inch)	Tube O.D. (mm)	Thread UNF	Size	ØA (mm)	ØB (mm)
1/4	6	9/16x18	-4	13.00	14.20
3/8	10	11/16x16	-6	15.90	17.50
1/2	12	13/16x16	-8	19.10	20.60
5/8	16	1x14	-10	23.80	25.40
3/4	20	1-3/16x12	-12	28.20	30.10
1	25	1-7/16x12	-16	34.15	36.50
1-1/4	32	1-11/16x12	-20	40.50	42.90
1-1/2	38	2x12	-24	48.80	50.80

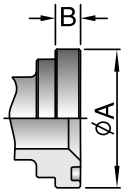
Flange Fittings
Code 61 and Code 62

The 4-bolt split flange (or full flange) fitting is used worldwide for connecting high-pressure hoses typically to pumps, motors and cylinders, where the hose assemblies are subjected to large pressure loadings.
The sealing mechanism is through compression of the O-ring in the face of the flange head against the surface of the port/connection.
The flange fittings are generally separated into two pressure classes referred to as 3000 psi (SFL) or 6000 psi (SFS).
ISO 12151-3 refers to the flange fittings as code 61 for the 3000 psi and code 62 for the 6000 psi.
In addition to these flanges, customer-specific Komatsu® and CATERPILLAR® flanges can also be found in the market.

Parker end configurations
Code 61 (3000 psi)
15, 16, 17, 19, P5, P7, P9
5000 psi (Code 61 dimensions)
4A, 4F, 4N
Code 62 (6000 psi)
6A, 6F, 6N, PA, PF, PN, 89
Caterpillar flange
XA, XF, XG, XN

Although not in the SAE or the ISO standard the size -10 (5/8) flange head is gaining popularity.
This flange is often found on Komatsu equipment or hydrostatic drives in agricultural machines.

- Standard Code 61 for 3000 to 5000 psi max.,depending on size
- High Pressure Code 62 for 6000 psi max. regardless of size



Flange (inch)	Size	Code 61 MPa / psi	Code 62 MPa / psi
1/2	-8	34.5 / 5000	41.3 / 6000
3/4	-12	34.5 / 5000	41.3 / 6000
1	-16	34.5 / 5000	41.3 / 6000
1-1/4	-20	27.5 / 4000	41.3 / 6000
1-1/2	-24	20.7 / 3000	41.3 / 6000
2	-32	20.7 / 3000	41.3 / 6000

Note: 5000 psi in size -20/-24/-32 with 4A,4F and 4N fittings and 50H flange halves.

Code 61 – SAE – 3000 psi

Flange (inch)	Size	ØA (mm)	B (mm)	O-Ring
1/2	-8	30.18	6.73	18.64x3.53
3/4	-12	38.10	6.73	24.99x3.53
1	-16	44.45	8.00	32.92x3.53
1-1/4	-20	50.80	8.00	37.69x3.53
1-1/2	-24	60.33	8.00	47.22x3.53
2	-32	71.42	9.53	56.74x3.53
2-1/2	-40	84.12	9.53	69.44x3.53
3	-48	101.60	9.53	85.32x3.53

Code 62 – SAE – 6000 psi

Flange (inch)	Size	ØA (mm)	B (mm)	O-Ring
1/2	-8	31.75	7.75	18.64x3.53
3/4	-12	41.28	8.76	24.99x3.53
1	-16	47.63	9.53	32.92x3.53
1-1/4	-20	53.98	10.29	37.69x3.53
1-1/2	-24	63.50	12.57	47.22x3.53
2	-32	79.38	12.57	56.74x3.53

CATERPILLAR®

Flange (inch)	Size	ØA (mm)	B (mm)	O-Ring
3/4	-12	41.28	14.22	25.40x5.00
1	-16	47.63	14.22	31.90x5.00
1-1/4	-20	53.98	14.22	38.20x5.00
1-1/2	-24	63.50	14.22	44.70x5.00

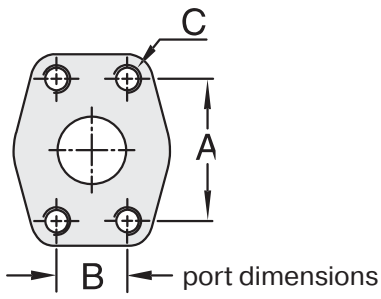
Komatsu®

Flange (inch)	Size	ØA (mm)	B (mm)	O-Ring
5/8	-10	34.25	6.00	21.7x3.5

4-Bolt Split Flange

A 4-bolt split flange is used to attach the flange fittings to their ports.

- Standard Code 61 for 3000 to 5000 psi max., depending on size
- High Pressure Code 62 for 6000 psi max., regardless of size



Code 61 – SAE – 3000 psi

Flange (inch)	Size	A (mm)	B (mm)	C (inch)	C (metr.)
1/2	-8	38.1	17.5	5/16x18	M8x1.25
3/4	-12	47.6	22.3	3/8x16	M10x1.5
1	-16	52.4	26.2	3/8x16	M10x1.5
1-1/4	-20	58.7	30.2	7/16x14	M10x1.5
1-1/2	-24	69.9	35.7	1/2x13	M12x1.75
2	-32	77.8	42.8	1/2x13	M12x1.75*

Code 62 – SAE – 6000 psi

Flange (inch)	Size	A (mm)	B (mm)	C (inch)	C (metr.)
1/2	-8	40.5	18.2	5/16x18	M8x1.25
3/4	-12	50.8	23.8	3/8x16	M10x1.5
1	-16	57.2	27.8	7/16x14	M12x1.75
1-1/4	-20	66.7	31.8	1/2x13	M12x1.75*
1-1/2	-24	79.4	36.5	5/8x11	M16x2
2	-32	96.8	44.4	3/4x10	M20x2.5

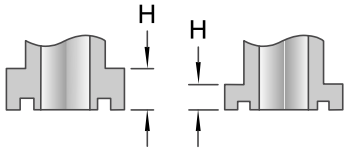
*M14x2 still used in the market but no longer in accordance with ISO 6162

Replacing Caterpillar® 6000 PSI Flange Fittings with SAE Code 62 Flange Fittings and Parker "Caterpillar®" Style Flange Fittings

Caterpillar® has a proprietary 6000 PSI hydraulic flange fitting for use on their equipment. This fitting is similar to the SAE Code 62 hydraulic flange (SAE J518). Flange diameters and bolt hole spacing are the same. The Caterpillar® flange head is thicker (.560" in all sizes) and the configuration and location of the O-ring groove is different, requiring the use of a special O-ring.

The Caterpillar® 6000 PSI flange fitting can be replaced with a Parker "Caterpillar®" style flange fitting such as the 1XA78 using the existing Caterpillar® flange halves and bolts. In this case the XARG O-ring would be used. The fitting could also be replaced with a standard Code 62 flange fitting such as the 16A78. In this case use HFH flange halves or the HFHFHK kit with the standard SAE O-ring (711510).

Do not use the Caterpillar® 6000 PSI split flange halves on SAE Code 62 flange fittings or SAE Code 62 flange halves on Caterpillar® 6000 PSI flange fittings.



Size		H (in) Caterpillar®	H (in) SAE Code 62
3/4	(-12)	.560	.345
1	(-16)	.560	.375
1-1/4	(-20)	.560	.405
1-1/2	(-24)	.560	.495

Procedure	P-ring P/N	Flange Half P/N	Flange Kit P/N
When replacing Caterpillar® 6000 PSI Flange Fittings with Parker "Caterpillar® Style" Fittings:	XARG-Size	Use existing flange halves and bolts	Use existing flange halves and bolts
When replacing Caterpillar® 6000 PSI Flange Fittings with SAE Code 62 Flange Fittings:	711510*	HFH-Size	HFHFHK-Size

Japanese Fittings

The Japanese Industrial Standard (JIS) is seen on most Japanese equipment and uses a 30˚ sealing angle seat and either British Standard Pipe Parallel or metric threads.
Care must be taken not to confuse the JIS fittings with BSP or JIC fittings.

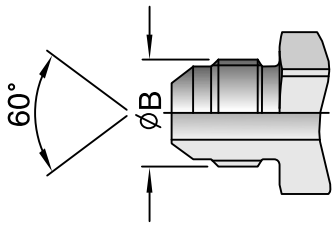
Japanese fittings - JIS

The sealing mechanism of the fittings is the 30˚ metal-to-metal angled surfaces

Parker end configurations
MU, XU (Metric)
FU (BSP)

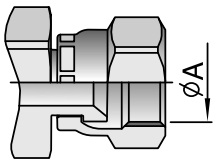
JIS 30˚ metric

Symbol	Thread metric	ØA (mm)	ØB (mm)
MU-6	M14x1.5	12.50	14.00
MU-9	M18x1.5	16.50	18.00
MU-12	M22x1.5	20.50	22.00
MU-15	M27x2	25.00	27.00
MU-19	M27x2	25.00	27.00
MU-25	M33x2	31.00	33.00
MU-32	M42x2	40.00	42.00
MU-38	M50x2	48.00	50.00
MU-50	M60x2	58.00	60.00



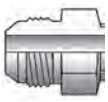
JIS 30˚ BSP

Symbol	Thread BSP	ØA (mm)	ØB (mm)
GUI-3	1/8x28	8.60	9.70
GUI-5/-6	1/4x19	11.50	13.20
GUI-8/-9	3/8x19	14.90	16.70
GUI-12	1/2x14	18.60	20.90
GUI-15/-19	3/4x14	24.10	26.40
GUI-25	1x11	30.30	33.20
GUI-32	1-1/4x11	38.90	41.90
GUI-38	1-1/2x11	44.90	47.80
GUI-50	2x11	56.70	59.60



Application

Thread Guide

								
size	NPTF Pipe Thread Size	SAE (JIC) 37 Flare Thread Size	SAE 45 Flare Thread Size	O-Ring Style Straight Thread Size	SAE Inverted Flare Thread Size	PTT 30 Flare Thread Size	SAE Flareless Thread Size	Seal-Lok Thread
2	1/8 - 27	5/16 - 24	5/16 - 24	5/16 - 24	-	-	5/16 - 24	-
3	-	3/8 - 24	3/8 - 24	3/8 - 24	-	-	3/8 -24	-
4	1/4 - 18	7/16 - 20	7/16 - 20	7/16 - 20	7/16 - 24	-	7/16 - 20	9/16 - 18
5	-	1/2 - 20	1/2 - 20	1/2 - 20	1/2 - 20	-	1/2 - 20	-
6	3/8 - 18	9/16 - 18	5/8 - 18	9/16 - 18	5/8 - 18	-	9/16 - 18	11/16-16
8	1/2 - 14	3/4 - 16	3/4 - 16	3/4 - 16	3/4 - 18	-	3/4 - 16	13/16 - 16
10	-	7/8 - 14	7/8 - 14	7/8 - 14	7/8 - 18	-	7/8 - 14	1 -14
12	3/4 - 14	1 1/16 - 12	1 1/16 - 14	1 1/16 - 12	-	-	1 1/16 - 12	1 3/16 - 12
14	-	1 3/16 - 12	-	1 3/16 - 12	-	-	1 3/16 - 12	-
16	1 - 11 1/2	1 5/16 - 12	-	1 5/16 - 12	-	1 5/16 - 14	1 5/16 - 12	1 7/16 - 12
20	1 1/4 - 11 1/2	1 5/8 - 12	-	1 5/8 - 12	-	1 5/8 - 14	1 5/8 - 12	1 11/16 - 12
24	1 1/2 - 11 1/2	1 7/8 - 12	-	1 7/8 - 12	-	1 7/8 - 14	1 7/8 - 12	2-12
32	2 - 11 1/2	2 1/2 - 12	-	2 1/2 - 12	-	2 1/2 - 12	2 1/2 - 12	-

Fitting Size	DIN "L" Swivel Female Thread Size	DIN "S" Swivel Female Thread Size	DIN "L" Male Stud Thread Size	DIN "S" Male Stud Thread Size	Male BSPP Thread Size	BSP Swive Female Thread Size	French Swivel Female Gaz Series	French Swivel Female Metric Series	French Male Stud Metric Series
4	-	-	-	-	1/4x19	1/4x19	--	-	
6	M12x1,5	M14x1,5	M12x1,5	M14x1,5	3/8x19	3/8x19	-	M12x1	
8	M14x1,5	M16x1,5	M14X1,5	M16x1,5	1/2x14	1/2x14	-	M14x1,5	
10	M16X1,5	M18x1,5	M16x1,5	M18x1,5	5/8x14	5/8x14	-	M16x1,5	
12	M18x1,5	M20x1,5	M18X1,5	M20x1,5	3/4x14	3/4x14	-	M18x1,5	
-	-	-	-	-	-	-	M20x1,5	-	
14	-	M22x1,5	-	M22x1,5	-	-	-	M20x1,5	
15	M22x1,5	-	M22x1,5	-	-	-	-	M22x1,5	
16	-	M24x1,5	-	M24x1,5	1x11	1x 11	-	M24X1,5	
-	-	-	-	-	-	-	M24x1,5	-	
18	M26x1,5	-	M26x1,5	-	-	-	-	M27x1,5	
20	-	M30x2	-	M30x2	1 1/4x11	1 1/4x11	-	M27x1,5	
-	-	-	-	-	-	-	M30x 1,5	-	
22	M30x2	-	M30x2	-	-	-	-	M30x1,5	
25	-	M36x2	-	M36x2	1 1/2x11	1 1/2x11	-	M33x1,5	
-	-	-	-	-	-	-	M36x1,5	-	
28	M36x2	-	M36x2	-	-	-	-	M36x1,5	
30	-	M42x2	-	M42x2	2x11	2x11	-	M39x1,5	
33	-	-	-	-	-	-	M45x1,5	-	

Application

	Description	End Code
Pipe	Male NPTF Pipe - Rigid - Straight	01
	Male NPTF Pipe - Swivel - Straight	13
	Male NPTF Pipe - Swivel - 90° Elbow	1L
	Male API Pipe - Rigid - Straight	AP
	Female NPTF Pipe - Rigid - Straight	02
	Female NPSM Pipe - Swivel - Straight (60° Cone)	07
	Female NPTF Pipe - Swivel - Straight	S2
	Female NPSM Pipe - Gasket Joint - Swivel - Straight	7G
	Female Grease Connection - SPL-PTF Taper Thread - Rigid x 27 Straight - ½	GJ
	Male NPTF Pipe - Rigid - 45° Elbow	31
	Male NPTF Pipe - Rigid - 90° Elbow or Side Outlet	21
SAE Str. Trd.	Male SAE Straight Thread with O-Ring - Rigid - Straight	05
	Male SAE Straight Thread with O-Ring - Swivel - Straight	0G
	Male SAE Straight Thread with O-Ring - Adjustable - 45° Elbow	25
	Male SAE Straight Thread with O-Ring - Swivel - 90° Elbow	0L
	Male SAE Straight Thread with O-Ring - Adjustable - 90° Elbow	35
Flare	Male JIC 37° - Rigid - Straight	03
	Male JIC 37° - Bulkhead without Locknut - Straight	LB
	Female JIC 37° - Swivel - Straight	06
	Female JIC 37° - Swivel - 45° Elbow - Short Drop	37
	Female JIC 37° - Swivel - 45° Elbow - Medium Drop	L7
	Female JIC 37° - Swivel - 90° Elbow - Short Drop	39
	Female JIC 37° - Swivel - 90° Elbow - Medium Drop	L9
	Female JIC 37° - Swivel - 90° Elbow - Long Drop	41
	Female JIC 37° - Swivel - Straight	48
	Female JIC 37° - Swivel - 150° Elbow	4V
	Male SAE 45° - Rigid - Straight	04
	Female SAE 45° - Swivel - Straight	08
	Female SAE 45 / Swivel - 45° Elbow	77
	Female SAE 45 / Swivel - 90° Elbow	79
	Female SAE 45 / Swivel - 90° Elbow - Long Drop	81
	Female JIC 37°/SAE 45° Dual Flare - Swivel - Straight	68
Inverted Flare	Male Inverted SAE 45° - Swivel - Straight	28
	Male Inverted SAE 45° - Swivel - 45° Elbow	67
	Male Inverted SAE 45° - Swivel - 90° Elbow	69
	Male Inverted SAE 45° - Swivel - 90° Elbow - Long (In-Line)	71
	Female Inverted SAE 45° - Rigid - Straight	29

Standard Fitting Connections by Connection Type

	Description	End Code
Tube-O	Male Tube-O - Swivel - Straight - Short Pilot	S5
	Male Tube-O - Swivel - Straight - Long Pilot	45
	Male Tube-O - Swivel - Straight - Long Pilot with Low Pressure Charge Port for R134a	45-PT
	Female Tube-O - Swivel - 90° Elbow - Long Pilot	5L
	Female Tube-O - Swivel - 90° Elbow - Long Pilot with Low Pressure Charge Port for R134a	5L-PT
	Male Tube-O - Swivel - 90° Elbow - Long Pilot	5M
	Male Tube-O - Swivel - 90° Elbow - Long Pilot with Low Pressure Charge Port for R134a	5M-PT
	Male Tube-O - Swivel - 90° Elbow - Long Pilot with Low Pressure Charge Port for R134a	5M-PV
	Male Tube-O - Rigid - Straight - Internal Long Pilot (3-Step)	5G
	Male Tube-O - Swivel - 45° Elbow - Short Pilot	5R
	Male Tube-O - Swivel - 45° Elbow - Long Pilot	5P
	Male Tube-O - Swivel - 45° Elbow - Long Pilot with Low Pressure Charge Port for R134a	5P-PT
	Male Tube-O - Swivel - 90° Elbow - Short Pilot	5K
	Male Tube-O - Swivel - 90° Elbow - Short Pilot with High Pressure Charge Port for R134a	5K-PB
	Female Tube-O - Swivel - Straight - Short Pilot	5S
	Female Tube-O - Swivel - Straight - Long Pilot	59
	Female Tube-O - Swivel - Straight - Long Pilot with High Pressure Charge Port for 134a	59-PB
	Female Tube-O - Swivel - Straight - Long Pilot with Low Pressure Charge Port for R134a	59-PT
	Female Tube-O - Swivel - 45° Elbow - Short Pilot	5H
	Female Tube-O - Swivel - 45° Elbow - Long Pilot	5N
	Female Tube-O - Swivel - 45° Elbow - Long Pilot with High Pressure Charge Port for R134a	5N-PB
	Female Tube-O - Swivel - 45° Elbow - Long Pilot with Low Pressure Charge Port for R134a	5N-PT
	Female Tube-O - Swivel - 90° Elbow - Short Pilot	5T
Compressor	Female Compressor - Swivel - 45° Elbow	5V
	Female Compressor - Swivel - 90° Elbow	5W
	Female Compressor - Swivel - 90° Elbow - Block Type	5Z
	Female Compressor - Swivel - 135° Elbow	RV
	Female Compressor - Swivel - 180° Elbow - Block Type	RZ
	Two Hole (2.25" X 0.44") Flange - Rigid - 90° Elbow	2H
Flange	SAE Code 61 Flange Head - Straight	15
	SAE Code 61 Flange Head - Straight (5,000 psi)	4A
	SAE Code 61 Flange Head - 22½° Elbow -	16

Continued on next page

Application

Continued from previous page

	Description	End Code
Flange	SAE Code 61 Flange Head-30° Elbow	26
	SAE Code 61 Flange Head-45° Elbow	17
	SAE Code 61 Flange Head-45° Elbow (5,000 psi)	4F
	SAE Code 61 Flange Head-60° Elbow	27
	SAE Code 61 Flange Head - 67½° Elbow	18
	SAE Code 61 Flange Head - 90° Elbow	19
	SAE Code 61 Flange Head - 90° Elbow - (5,000 psi)	4N
	SAE Code 61 Flange Head - 90° Elbow - Long Drop	89
	SAE Code 61 Flange Head - 110° Elbow	2U
	SAE Code 62 Flange Head - Straight	6A
	SAE Code 62 Flange Head - 22½° Elbow	6B
	SAE Code 62 Flange Head - 30° Elbow	6E
	SAE Code 62 Flange Head - 45° Elbow	6F
	SAE Code 62 Flange Head - 60° Elbow	6G
	SAE Code 62 Flange Head - 90° Elbow	6N
	Caterpillar® Flange Head - Straight	XA
	Caterpillar® Flange Head - 22½° Elbow	XB
	Caterpillar® Flange Head - 30° Elbow	XE
	Caterpillar® Flange Head - 45° Elbow	XF
	Caterpillar® Flange Head - 60° Elbow	XG
	Caterpillar® Flange Head - 67½° Elbow	XM
	Caterpillar® Flange Head - 90° Elbow	XN
Seal-Lok	Male Seal-Lok - Rigid - Straight (with O-Ring)	J0
	Male Seal-Lok - Bulkhead without Locknut - Straight (with O-Ring)	JB
	Female Seal-Lok - Swivel - Straight - Long	JS
	Female Seal-Lok - Swivel - Straight - Short	JC
	Female Seal-Lok - Swivel - 221/2° Elbow	J6
	Female Seal-Lok - Swivel - 45° Elbow	J7
	Female Seal-Lok - Swivel - 90° Elbow - Short Drop	J9
	Female Seal-Lok - Swivel - 90° Elbow - Medium Drop	J5
	Female Seal-Lok - Swivel - 90° Elbow - Long Drop	J1
Metric	Female Metric Swivel - Straight (30° Flare)	MU
	Female Metric - Swivel - Straight (30° Flare)	XU
	Male Metric L - Rigid - Straight (24° Cone)	D0
	Male Standpipe Metric L - Rigid - Straight	1D
	Female Metric - Swivel - Straight (Ball Nose)	C0
	Female Metric L - Swivel - Straight (Ball Nose)	C3
	Female Metric L - Swivel - 45° Elbow (Ball Nose)	C4

Standard Fitting Connections by Connection Type

	Description	End Code
Metric	Female Metric L - Swivel - 90° Elbow (Ball Nose)	C5
	Female Metric L - Swivel - Straight (24° Cone with O-Ring)	CA
	Female Metric L - Swivel - 45° Elbow (24° Cone with O-Ring)	CE
	Female Metric L - Swivel - 90° Elbow (24° Cone with O-Ring)	CF
	Male Metric S - Rigid - Straight (24° Cone)	D2
	Male Standpipe Metric S - Rigid - Straight	3D
	Female Metric S - Swivel - Straight (Ball Nose)	C6
	Female Metric S - Swivel - 45° Elbow (Ball Nose)	C7
	Female Metric S - Swivel - 90° Elbow (Ball Nose)	C8
	Female Metric S - Swivel - Straight (24° Cone with O-Ring)	C9
	Female Metric S - Swivel - 45° Elbow (24° Cone with O-Ring)	0C
	Female Metric S - Swivel - 90° Elbow (24° Cone with O-Ring)	1C
BSP	Male BSP Taper Pipe - Rigid - Straight	91
	Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	92
	Male BSP Parallel Pipe - Rigid - Straight (60° Cone)	D9
	Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	B1
	Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	B2
	Female BSP Parallel Pipe - Swivel - 90° Elbow Block Type (60° Cone)	B4
	Female BSP Parallel Pipe - Swivel - Straight (Flat Seat)	B5
	Male BSP Taper Pipe - Rigid - 45° Elbow	BV
	Male BSP Taper Pipe - Rigid - 90° Elbow or Side Outlet	BZ
	Female BSP Parallel Pipe - Swivel - Straight (30° Flare)	FU
	Male BSP Taper Pipe - Rigid - Straight (60° Cone)	UT
	Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	GU
	Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	G1
	Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	G2
Fr. Gaz	Male French Gaz Series - Rigid - Straight (24° Cone)	FG
	Female French Gaz Series - Swivel - Straight (Ball Nose)	F4
Specialty	DIN Metric Banjo - Straight	49
	88 Series Heavy Duty Hose Clamp (Double Bolt Hose Clamp)	88DB
	88 Series Hose Clamp-SAE 100R4 Two-Bolt Clamp	88HC-H
	88 Series Hose Clamp (Worm Gear)	88HC
	Push-Lok Union	82
	Hose Splicer	88
	Male Standpipe - Rigid - Straight (Inch Size Tube O.D.)	34
	Male Ferulok Flareless-Rigid-Straight (24° Cone with Nut and Ferrule)	11
	Female Ferulok Flareless - Swivel - Straight (24° Cone)	12
	Female Air Brake Jounce Line - Swivel - Straight	7B
	Male Refrigerant Tube Mender - Straight (with Nut and Ferrule)	T1
	Female PTT 30° - Swivel	32
	Male SAE Compression Seat (without Nut or Sleeve)	61
	Female Slip-fit Counterbore for Brazing - Straight (Inch Size Tube O.D.)	S9

Application

Standard Fitting Configurations by Connection and End Code Listed in Numerical Order

Description	End Code
Female Metric S - Swivel - 45° Elbow (24° Cone with O-Ring)	0C
Male SAE Straight Thread with O-Ring - Swivel - Straight	0G
Male SAE Straight Thread with O-Ring - Swivel - 90° Elbow	0L
Male NPTF Pipe - Rigid - Straight	01
Female Metric S - Swivel - 90° Elbow (24° Cone with O-Ring)	1C
Male Standpipe Metric L - Rigid - Straight	1D
Male NPTF Pipe - Swivel - 90° Elbow	1L
Female NPTF Pipe - Rigid - Straight	02
Two Hole (2.25" X 0.44") Flange - Rigid - 90° Elbow	2H
SAE Code 61 Flange Head - 110° Elbow	2U
Male JIC 37° - Rigid - Straight	03
Male Standpipe Metric S - Rigid - Straight	3D
Male SAE 45° - Rigid - Straight	04
SAE Code 61 Flange Head - Straight (5,000 psi)	4A
SAE Code 61 Flange Head-45° Elbow (5,000 psi)	4F
SAE Code 61 Flange Head - 90° Elbow - (5,000 psi)	4N
Female JIC 37° - Swivel - 150° Elbow	4V
Male SAE Straight Thread with O-Ring - Rigid - Straight	05
Male Tube-O - Rigid - Straight - Internal Long Pilot (3-Step)	5G
Female Tube-O - Swivel - 45° Elbow - Short Pilot	5H
Male Tube-O - Swivel - 90° Elbow - Short Pilot	5K
Male Tube-O - Swivel - 90° Elbow - Short Pilot with High Pressure Charge Port for R134a	5K-PB
Female Tube-O - Swivel - 90° Elbow - Long Pilot with Low Pressure Charge Port for R134a	5L-PT
Male Tube-O - Swivel - 90° Elbow - Long Pilot	5M
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Low PressureCharge Port for R134a	5M-PT
Male Tube-O - Swivel - 90° Elbow - Long Pilot with Low PressureCharge Port for R134a	5M-PV
Female Tube-O - Swivel - 45° Elbow - Long Pilot	5N
Female Tube-O - Swivel - 45° Elbow - Long Pilot with High Pressure Charge Port for R134a	5N-PB
Female Tube-O - Swivel - 45° Elbow - Long Pilot with Low Pressure Charge Port for R134a	5N-PT
Male Tube-O - Swivel - 45° Elbow - Long Pilot	5P
Male Tube-O - Swivel - 45° Elbow - Long Pilot with Low Pressure Charge Port for R134a	5P-PT
Male Tube-O - Swivel - 45° Elbow - Short Pilot	5R
Female Tube-O - Swivel - Straight - Short Pilot	5S
Female Tube-O - Swivel - 90° Elbow - Short Pilot	5T

Standard Fitting Connections by Connection Type

Standard Fitting Configurations by Connection and End Code Listed in Numerical Order

Description	End Code
Female Compressor - Swivel - 45° Elbow	5V
Female Compressor - Swivel - 90° Elbow	5W
Female Compressor - Swivel - 90° Elbow - Block Type	5Z
Female JIC 37° - Swivel - Straight	06
SAE Code 62 Flange Head - Straight	6A
SAE Code 62 Flange Head - 22½° Elbow	6B
SAE Code 62 Flange Head - 30° Elbow	6E
SAE Code 62 Flange Head - 45° Elbow	6F
SAE Code 62 Flange Head - 60° Elbow	6G
SAE Code 62 Flange Head - 90° Elbow	6N
Female NPSM Pipe - Swivel - Straight (60° Cone)	07
Female Air Brake Jounce Line - Swivel - Straight	7B
Female NPSM Pipe - Gasket Joint - Swivel - Straight	7G
Female SAE 45° - Swivel - Straight	08
Male Ferulok Flareless-Rigid-Straight (24° Cone with Nut and Ferrule)	11
Female Ferulok Flareless - Swivel - Straight (24° Cone)	12
Male NPTF Pipe - Swivel - Straight	13
SAE Code 61 Flange Head - Straight	15
SAE Code 61 Flange Head - 22½° Elbow -	16
SAE Code 61 Flange Head-45° Elbow	17
SAE Code 61 Flange Head - 67½° Elbow	18
SAE Code 61 Flange Head - 90° Elbow	19
Male NPTF Pipe - Rigid - 90° Elbow or Side Outlet	21
Male SAE Straight Thread with O-Ring - Adjustable - 45° Elbow	25
SAE Code 61 Flange Head-30° Elbow	26
SAE Code 61 Flange Head-60° Elbow	27
Male Inverted SAE 45° - Swivel - Straight	28
Female Inverted SAE 45° - Rigid - Straight	29
Male NPTF Pipe - Rigid - 45° Elbow	31
Female PTT 30° - Swivel	32
Male Standpipe - Rigid - Straight (Inch Size Tube O.D.)	34
Male SAE Straight Thread with O-Ring - Adjustable - 90° Elbow	35
Female JIC 37° - Swivel - 45° Elbow - Short Drop	37
Female JIC 37° - Swivel - 90° Elbow - Short Drop	39
Female JIC 37° - Swivel - 90° Elbow - Long Drop	41
Male Tube-O - Swivel - Straight - Long Pilot	45
Male Tube-O - Swivel - Straight - Long Pilot with Low Pressure Charge Port for R134a	45-PT
Female JIC 37° - Swivel - Straight	48

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Application

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Standard Fitting Configurations by Connection and End Code Listed in Numerical Order

Description	End Code
DIN Metric Banjo - Straight	49
Female Tube-O - Swivel - Straight - Long Pilot	59
Female Tube-O - Swivel - Straight - Long Pilot with Charge Port for 134a	59-PB
Female Tube-O - Swivel - Straight - Long Pilot with Charge Port	59-PT
Male SAE Compression Seat (without Nut or Sleeve)	61
Male Inverted SAE 45° - Swivel - 45° Elbow	67
Female JIC 37°/SAE 45° Dual Flare - Swivel - Straight	68
Male Inverted SAE 45° - Swivel - 90° Elbow	69
Male Inverted SAE 45° - Swivel - 90° Elbow - Long (In-Line)	71
Female SAE 45 / Swivel - 45° Elbow	77
Female SAE 45 / Swivel - 90° Elbow	79
Female SAE 45 / Swivel - 90° Elbow - Long Drop	81
Push-Lok Union	82
Hose Splicer	88
88 Series Heavy Duty Hose Clamp (Double Bolt Hose Clamp)	88DB
88 Series Hose Clamp (Worm Gear)	88HC
88 Series Hose Clamp-SAE 100R4 Two-Bolt Clamp	88HC-H
SAE Code 61 Flange Head - 90° Elbow - Long Drop	89
Male BSP Taper Pipe - Rigid - Straight	91
Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	92
Male API Pipe - Rigid - Straight	AP
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	B1
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	B2
Female BSP Parallel Pipe - Swivel - 90° Elbow Block Type (60° Cone)	B4
Female BSP Parallel Pipe - Swivel - Straight (Flat Seat)	B5
Male BSP Taper Pipe - Rigid - 45° Elbow	BV
Male BSP Taper Pipe - Rigid - 90° Elbow or Side Outlet	BZ
Female Metric - Swivel - Straight (Ball Nose)	C0
Female Metric L - Swivel - Straight (Ball Nose)	C3
Female Metric L - Swivel - 45° Elbow (Ball Nose)	C4
Female Metric L - Swivel - 90° Elbow (Ball Nose)	C5
Female Metric S - Swivel - Straight (Ball Nose)	C6
Female Metric S - Swivel - 45° Elbow (Ball Nose)	C7
Female Metric S - Swivel - 90° Elbow (Ball Nose)	C8
Female Metric S - Swivel - Straight (24° Cone with O-Ring)	C9
Female Metric L - Swivel - Straight (24° Cone with O-Ring)	CA
Female Metric L - Swivel - 45° Elbow (24° Cone with O-Ring) -	CE
Female Metric L - Swivel - 90° Elbow (24° Cone with O-Ring) -	CF
Male Metric L - Rigid - Straight (24° Cone)	D0
Male Metric S - Rigid - Straight (24° Cone)	D2
Male BSP Parallel Pipe - Rigid - Straight (60° Cone)	D9
Female French Gaz Series - Swivel - Straight (Ball Nose)	F4

Standard Fitting Connections by End Code

Standard Fitting Configurations by Connection and End Code Listed in Numerical Order

Description	End Code
Male French Gaz Series - Rigid - Straight (24° Cone)	FG
Female BSP Parallel Pipe - Swivel - Straight (30° Flare)	FU
Female BSP Parallel Pipe - Swivel - 45° Elbow (60° Cone)	G1
Female BSP Parallel Pipe - Swivel - 90° Elbow (60° Cone)	G2
Female Grease Connection - SPL-PTF Taper Thread - Rigid Straight - ½ x 27	GJ
Female BSP Parallel Pipe - Swivel - Straight (60° Cone)	GU
Male Seal-Lok - Rigid - Straight (with O-Ring)	J0
Female Seal-Lok - Swivel - 90° Elbow - Long Drop	J1
Female Seal-Lok - Swivel - 90° Elbow - Medium Drop	J5
Female Seal-Lok - Swivel - 221/2° Elbow	J6
Female Seal-Lok - Swivel - 45° Elbow	J7
Female Seal-Lok - Swivel - 90° Elbow - Short Drop	J9
Male Seal-Lok - Bulkhead without Locknut - Straight	JB
Female Seal-Lok - Swivel - Straight - Short	JC
Female Seal-Lok - Swivel - Straight - Long	JS
Female JIC 37° - Swivel - 45° Elbow - Medium Drop	L7
Female JIC 37° - Swivel - 90° Elbow - Medium Drop	L9
Male JIC 37° - Bulkhead without Locknut - Straight	LB
Female Metric Swivel - Straight (30° Flare)	MU
Female Compressor - Swivel - 135° Elbow	RV
Female Compressor - Swivel - 180° Elbow - Block Type	RZ
Female NPTF Pipe - Swivel - Straight	S2
Male Tube-O - Swivel - Straight - Short Pilot	S5
Male Tube-O - Swivel - Straight - Short Pilot with Charge Port for R12	S5-PR
Female Slip-fit Counterbore for Brazing - Straight (Inch Size Tube O.D.)	S9
Male Refrigerant Tube Mender - Straight (with Nut and Ferrule)	T1
Male BSP Taper Pipe - Rigid - Straight (60° Cone)	UT
Caterpillar® Flange Head - Straight	XA
Caterpillar® Flange Head - 22½° Elbow	XB
Caterpillar® Flange Head - 30° Elbow	XE
Caterpillar® Flange Head - 45° Elbow	XF
Caterpillar® Flange Head - 60° Elbow	XG
Caterpillar® Flange Head - 67½° Elbow	XM
Caterpillar® Flange Head - 90° Elbow (with O-Ring)	XN
Female Metric - Swivel - Straight (30° Flare)	XU

Application

Metric Conversion

METRIC to ENGLISH EQUIVALENTS
ENGLISH to METRIC EQUIVALENTS

inches x 25.4 = millimeters (mm)
inches x 2.54 = centimeters (cm)
feet x .3048 = meters (m)
yard x .9144 = meters (m)
psi x .0689 = bar
psi x .0069 = Megapascals (MPa)
psi x .0703 = Kilogram force per square centimeter (Kgf/cm^2)
pound force x 4.448 = Newtons
pound · inch x .113 = Newton · meters (N · m)
pound · foot x 1.356 = Newton · meters (N · m)
millimeter x .0394 = inch (in)
centimeter x .3937 = inch (in)
meters x 3.281 = feet (ft)
meters x 1.0936 = yards (yd)
bar x 14.5 = psi
Megapascals x 145.0 = psi
Kilogram force per square centimeter x 14.22 = psi
Newtons x .2248 = pounds force (lbf)
Newton · meter x 8.850 = pound · inches (lb · in)
Newton · meter x .737 = pound feet (lb · ft)

METRIC I.D. KIT
INTERNATIONAL HOSE FITTING IDENTIFICATION KIT

The booklet, gauges and caliper contained in this fitting I.D. Kit, can be used to identify most types of hydraulic hose fittings and adapters including:

- U.S. Standards
- British Standard Pipe
- German (DIN) Metric
- French Metric and GAZ
- Japanese Standards (JIS)

Contents of Kit:

- Instruction Book with Tables
- Screw Pitch Gauge for U.S. Threads
- International Gauge for Metric and British Threads
- Inch and Millimeter Caliper
- Carry Case

MILLIMETERS to FRACTIONS to DECIMALS

MM	INCHES		MM	INCHES		MM	INCHES		MM	INCHES	
	FRACTION	DECIMAL		FRACTION	DECIMAL		FRACTION	DECIMAL		FRACTION	DECIMAL
0.3969	1/64	0.0156	6.7469	17/64	0.2656	13.0969	33/64	0.5156	19.4469	49/64	0.7656
0.7938	1/32	0.0312	7.1438	9/32	0.2812	13.4938	17/32	0.5312	19.8438	25/32	0.7812
1.1906	3/64	0.0468	7.5406	19/64	0.2968	13.8906	35/64	0.5468	20.2406	51/64	0.7968
1.5875	1/16	0.0625	7.9375	5/16	0.3125	14.2875	9/16	0.5625	20.2375	13/16	0.8125
1.9844	5/64	0.0781	8.3344	21/64	0.3281	14.6844	37/64	0.5781	21.0344	53/64	0.8281
2.3812	3/32	0.0937	8.7312	11/32	0.3437	15.0812	19/32	0.5937	21.4312	27/32	0.8437
2.7781	7/64	0.1093	9.1281	23/64	0.3593	15.4781	39/64	0.6093	21.8281	55/64	0.8593
3.1750	1/8	0.1250	9.5250	3/8	0.3750	15.8750	5/8	0.6250	22.2250	7/8	0.8750
3.5719	9/64	0.1406	9.9219	25/64	0.3906	16.2719	41/64	0.6406	22.6219	57/64	0.8906
3.9688	5/32	0.1562	10.3188	13/32	0.4062	16.6688	21/32	0.6562	23.0188	29/32	0.9062
4.3656	11/64	0.1718	10.7156	27/64	0.4218	17.0656	43/64	0.6718	23.4156	59/64	0.9218
4.7625	3/16	0.1875	11.1125	7/16	0.4375	17.4625	11/16	0.6875	23.8125	15/16	0.9375
5.1594	13/64	0.2031	11.5094	29/64	0.4531	17.8594	45/64	0.7031	24.2094	61/64	0.9531
5.5562	7/32	0.2187	11.9062	15/32	0.4687	18.2562	23/32	0.7187	24.6062	31/32	0.9687
5.9531	15/64	0.2343	12.3031	31/64	0.4843	18.6531	47/64	0.7343	25.0031	63/64	0.9843
6.3500	1/4	0.2500	12.7000	1/2	0.5000	19.0500	3/4	0.7500	25.4000	1	1.0000

Media

Chemical Resistance Information

⚠Warning: This chemical compatibility guide must not be used in conjunction with any other compatibility guides from previous or future catalog editions, bulletins or publications. Incorrect use of these charts could result in death, personal injury or property damage.

Hose Selection by Medium and Hose Type

This hose compatibility chart is a ready reference of Parker hose compatibility with various fluid media. It is intended as a guide to chemical compatibility with inner tube materials and assembly lubricant applied internally. The specific recommendations are based upon field experience, the advice of various polymer or fluid suppliers, and specific laboratory experiments. **It must be stressed, however, that this information is offered only as a guide.** Final hose selection depends also upon pressure, fluid temperature, ambient temperature, and special requirements or variations, which may not be known by Parker Hannifin. Legal and other regulations must be followed with particular care. Where an external compatibility problem may occur, or for fluids not listed, we encourage you to first contact the fluid manufacturer for a recommendation prior to contacting your Parker Hannifin Field Representative or the Technical Service Department, Hose Products Division, Wickliffe, Ohio.

Use the Chart as Follows:

1. Locate medium to be carried using the Chemical Resistance Table on the following pages.
2. Select suitability of hose and fitting material from the table based on the letter rating in the table. See resistance rating key below for explanation of compatibility ratings. See list of numerals below for an explanation when a numeral, or a numeral and a letter rating are present in the table.
3. The Column headings on the Chemical Resistance Table, I, II, III, IV, V, refer to specific groups of hoses.
4. Locate hose part number under Column I, II, III, IV, V from the list below.
5. For fitting material availability refer to appropriate fitting section of catalog.
6. Check hose specifications in this catalog. Contact Hose Division Technical Service Department on any items not cataloged.

Resistance Rating Key

A = Preferred, good to excellent with little or no change in physical properties.
F = Fair, marginal or conditional with noticeable affects on physical properties.
X = Unsuitable, severe affects on physical properties.
~ = No rating, insufficient information.

Note: All data based on 70˚F unless otherwise noted.

Numerals

1. For air or gaseous applications above 250 PSI (1,7 MPa), the cover should be pin pricked. The service life for air or gaseous applications can be unpredictable, especially at higher pressures. Contact Technical Service Department for more information.
2. Legal and insurance regulations must be considered. Contact Technical Service Department for more information.
3. Push-Lok hoses 801 and 836 are approved for diesel fuel applications only when coupled with HY series fittings.
4. Use 285, 235 or 244 hoses. The compatibility of the systems refrigeration oil with these hoses needs to be evaluated on a case by case basis. Contact HPD Technical Service Department for more information. Do not use mineral oil or Alkyl Benzene refrigeration oils with 244 hose. Chemical compatibility does not imply low permeation.
5. 150˚F (65˚C) maximum.
6. Satisfactory at some concentrations and temperatures, unsatisfactory at others.
7. For Phosphate Ester and Skydrol fluids, be aware a certain amount of permeation will occur. The rate and amount will depend on the fluid type, any blends or additives to the fluid, and the system operating parameters.
8. Acceptable for flushing hose assemblies.
9. 221FR hose recommended.
10. For dry air applications, hoses with inner tubes from columns IV, and V are preferred. See hose specifications for maximum recommended temperatures with air.
11. Use SS25UL

Hose Types

Column I
201, 601, 881
Column II
SS25UL, 421WC, 471TC, 471ST, 472LT, 722LT, 792LT, 801, 811, 811HT
Column III
JK, 187/TC/ST, 221FR, 302, 387/TC/ST, 422, 472TC, 482TC, 482ST, 487/TC/ST, 722/TC/ST, 787/TC/ST, 797/TC/ST, 821
Column IV
206, 213, 266, 293, 426, 611HT, 821FR, 836, 436
Column V
F42, 304, 424, 774, 804

⚠ Caution:
The fluid manufacturer's recommended maximum operating temperature for any specific name-brand fluid should be closely observed by the user. Specific name brand fluids can vary greatly between manufacturers even though they are considered to be from the same family or type of fluids. Using fluids above the manufacturers maximum recommended temperature can cause the fluid to break down, creating by-products that can be harmful to elastomers or other materials used in the system. When selecting a hose type, both the fluid manufacturer and hose manufacturers maximum temperature limit must be taken into consideration, with the lower of the two taking precedence.

Media

Chemical Resistance Information (Page 1 of 9)

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
3M FC-75	A	A	A	A	A	A	A	A
Acetic Acid	X	X	X	A	6	X	X	A
Acetone	X	X	X	A	A	A	A	A
Acetylene	X	X	X	X	X	~	~	~
Aeroshell 31	F	A	A	F	~	A	A	A
AEROSHELL Turbine Oil 500	X	X	F	X	X	A	A	A
Air	A,1,10	A,1,10	A,1,10	A,1,10	A,1,10	A	A	A
Air (dry)	X	X	X	A,1,10	A,1,10	A	A	A
Alcohol (Methanol-Ethanol)	F	F	F	F	F	F	A	A
Americas Choice AW ISO 46	~	F	F	~	~	~	~	~
Ammonia (Anhydrous)	X	X	X	X	X	X	X	X
Ammonium Chloride	A	A	A	A	A	X	X	X
Ammonium Hydroxide	F	F	F	A	A	F	X	A
Ammonium Nitrate	A	A	A	F	A	F	X	A
Ammonium Phosphate	A	A	A	A	A	X	X	F
Ammonium Sulfate	A	A	A	A	A	F	X	F
Amoco 32 Rykon	X	A	A	F	X	A	A	A
Ampol PE 46	X	X	X	X	A,7	A	A	A
AMSOIL Synthetic ATF	F	A	A	A	X	A	A	A
Amyl Alcohol	X	X	X	F	F	X	A	A
Anderol 495,497,500,750	X	X	X	F	X	A	A	A
Aniline	X	X	X	F	A	A	X	A
Animal Fats	X	F	F	F	F	6	6	A
Aquacent Light, Heavy	X	A	A	X	X	A	A	A
Aries/Athena	F	F	F	~	X	A	A	A
Aromatic 100,150	X	F	F	~	X	A	A	A
Arrow 602P	A	A	A	A	X	A	A	A
Asphalt	X	F	F	F	X	F	F	A
ASTM #3 Oil	F	F	F	F	X	A	A	A
Astrol 1044AW	A	A	A	~	X	A	A	A
ATF-M	F	A	A	A	X	A	A	A
Automotive Brake Fluid	X	X	X	X	~	X	X	X
AW 32,46,68	F	A	A	A	X	A	A	A
BCF	F	F	F	F	~	A	A	A
Benz Petraulic 32,46,68,100,150,220,320,460	F	A	A	A	X	A	A	A
Benzene, Benzol	X	X	X	F	X	A	A	A
Benzgrind HP 15	~	A	A	A	X	A	A	A
Benzine	X	X	X	F	X	A	A	A
Bio Diesel B20	~	A	A	A	X	A	A	A
Bio-Soy, Agri Industries	X	A	A	X	X	A	A	A
Biodegradable Hydraulic Fluid 112B	X	A	A	X	~	A	A	A
Borax	F	F	F	F	A	F	A	A
Boric Acid	A	A	A	X	A	X	6	A
Brayco 882	X	A	A	A	X	A	A	A

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
Brayco Micronic 745	~	A	A	F	X	A	A	A
Brayco Micronic 776RP	F	A	A	F	X	A	A	A
Brayco Micronic 889	X	F	F	~	X	A	A	A
Brine	F	F	F	A	A	X	F	F
Butane			See numerals 2 and 11			A	A	A
Butyl Alcohol, Butanol	F	F	F	F	F	F	F	A
Calcium Chloride	A	A	A	F	A	F	F	X
Calcium Hydroxide	A	A	A	A	A	A	A	A
Calcium Hypochlorite	X	X	X	A	A	X	F	X
Calibrating Fluid	A	A	A	A	X	A	A	A
Carbon Dioxide, gas	F	F	F	F	6	A	A	A
Carbon Dioxide, liquid	X	X	X	X	X	X	X	X
Carbon Disulfide	X	X	X	F	X	A	F	A
Carbon Monoxide (hot)	F	F	F	F	6	F	6	A
Carbon Tetrachloride	X	X	X	F	X	6	6	6
Carbonic Acid	F	F	F	X	F	X	X	F
Castor Oil	A	A	A	A	A	A	A	A
Castrol 5000	X	F	F	A	X	A	A	A
Cellosolve Acetate	X	X	X	X	A	X	X	A
Celluguard	A	A	A	~	A	A	A	A
Cellulube 90, 150, 220 300, 550, 1000	X	X	X	~	A	A	A	A
Chevron Clarity AW 32, 46, 68	A	A	A	A	X	A	A	A
Chevron FLO-COOL 180	F	F	F	~	X	A	A	A
Chevron FR-8, 10, 13, 20	X	X	X	X	A,7	A	A	A
Chevron Hydraulic Oils AW MV 15, 32, 46, 68, 100	A	A	A	A	X	A	A	A
Chevron HyJet IV (9)	X	X	X	X	A,7	A	A	A
Chevron Rykon MV	F	A	A	~	~	A	A	A
Cindol 3204 PBR	~	A	A	A	X	A	A	A
Citric Acid	F	A	A	X	A	X	X	6
Commonwealth EDM 242, 244	A	A	A	~	X	A	A	A
CompAir CN300	X	X	X	F	X	A	A	A
CompAir CS100, 200, 300, 400	X	X	X	F	X	A	A	A
Coolanol 15, 20, 25, 35, 45	A	A	A	A	A	A	A	A
Copper Chloride	F	A	A	X	A	X	X	X
Copper Sulfate	A	A	A	X	A	X	X	F
Cosmolubric HF-122, HF-130, HF-144	X	F	A	X	X	A	A	A
Cosmolubric HF-1530	X	F	A	X	X	A	A	A
Cottonseed Oil	F	A	A	F	X	A	A	A
CPI CP-4000	X	X	X	F	X	A	A	A
Crude Petroleum Oil	F	A	A	A	X	F	F	A
CSS 1001Dairy Hydraulic Fluid	F	A	A	A	X	A	A	A
Daphne AW32	A	A	A	A	X	A	A	A
Dasco FR 201-A	A	A	A	~	X	A	A	A
Dasco FR150, 200, 310	F	A	A	~	A	A	A	A
Dasco FR300, FR2550	X	X	X	~	X	A	A	A

Media

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
Dasco FR355-3	X	F	A	X	X	A	A	A
Deicer Fluid 419R	A	A	A	~	~	A	A	A
Deionized Water	A	A	A	A	A	F	F	A
Dexron II ATF	F	A	A	A	X	A	A	A
Dexron III ATF (to 170°F)	A	A	A	A	X	A	A	A
Dexron III ATF (to 212°F)	X	F	F	A	X	A	A	A
Dexron III ATF (to 250°F)	X	X	X	F	X	A	A	A
Dexron III ATF (to 300°F)	X	X	X	X	X			
Dexron VI ATF (to 170°F)	A	A	A	A	X	A	A	A
Dexron VI ATF (to 212°F)	X	F	F	A	X	A	A	A
Dexron VI ATF (to 250°F)	X	X	X	X	X	A	A	A
Dexron VI ATF (to 300°F)	X	X	X	X	X			
DexronIIE/Mercon (at 212°F)	X	A	A	A	X	A	A	A
Diesel Fuel (Standard and Ultra Low Sulfur)	F,3	A,3	A,3	A,3	X	A	A	A
Diester Fluids	X	X	X	F	X	A	A	A
Dow Corning 2-1802 Sullair (24KT)	~	~	~	F	~	A	A	A
Dow Corning DC 200, 510, 550, 560, FC126	A	A	A	F	~	A	A	A
Dow HD50-4	F	F	F	~	~	~	~	A
Dow Sullube 32	~	~	~	F	~	A	A	A
Dowtherm A,E	X	X	X	F	X	A	A	A
Dowtherm G	X	X	X	X	X	A	A	A
Duro AW-16, 31	A	A	A	~	X	A	A	A
Duro FR-HD	A	A	A	~	X	A	A	A
EcoSafe FR-68	A	A	A	~	~	A	A	A
Envirologic 3032, 3046, 3068	A	A	A	~	~	~	~	~
Ethanol	F	F	F	F	F	F	A	A
Ethers	X	X	X	F	X	A	A	A
Ethyl Acetate	X	X	X	F	F	F	A	A
Ethyl Alcohol	F	F	F	F	F	F	A	A
Ethyl Cellulose	F	F	F	F	F	X	F	F
Ethyl Chloride	X	X	X	X	A	F	F	F
Ethylene Dichloride	X	X	X	F	X	X	A	X
Ethylene Glycol	F	A	A	A	A	A	F	A
Exxon 2380 Turbo Oil	X	F	F	X	X	A	A	A
Exxon 3110 FR	A	A	A	A	X	A	A	A
Exxon Esstic	A	A	A	A	A	A	A	A
Exxon Mobil Rarus SHC 1026	~	~	~	A	~	A	A	A
Exxon Nuto H 46, 68	A	A	A	A	X	A	A	A
Exxon Tellura Indusrial Process Oils	A	A	A	A	X	A	A	A
Exxon Terresstic, EP	A	A	A	A	A	A	A	A
Exxon Turbo Oil 2380	X	F	F	F	X	A	A	A
Exxon Univolt 60, N61	F	A	A	A	X	A	A	A
FE 232 (Halon)	X	X	X	X	F	A	A	A

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
Fenso 150	~	A	A	~	X	A	A	A
Formaldehyde	X	X	X	A	A	X	F	A
Formic Acid	X	X	X	X	A	X	6	X
Freons see refrigerants	~	~	~	~	~	~	~	~
Fuel Oil	F	A	A	A	X	A	A	A
Fyre-Safe 120C, 126, 155, 1090E, 1150, 1220, 1300E	X	X	X	X	A,7	A	A	A
Fyre-Safe 200C, 225, 211	F	A	A	A	A	A	A	A
Fyre-Safe W/O	A	A	A	A	X	A	A	A
Fyrguard 150, 150-M, 200	A	A	A	A	A	A	A	A
Fyrquel 60, 90, 150, 220, 300, 550, 1000	X	X	X	X	A,7	A	A	A
Fyrquel EHC, GT, LT, VPF	X	X	X	X	A,7	A	A	A
Fyrtek MF, 215, 290, 295	X	X	X	X	X	A	A	A
Gardner-Denver GD5000, GD8000	X	X	X	F	X	A	A	A
Gasoline			See numeral 9			A	A	A
Glue	F	F	F	~	X	A	F	A
Glycerine, Glycerol	A	A	A	A	A	A	F	A
Grease	A	A	A	A	X	A	A	A
Green Plus ES	X	A	A	X	~	A	A	A
Greens Care 32, 46	F	A	A	F	~	A	A	A
Gulf-FR Fluid P37, P40, P43, P45, P47	X	X	X	F	A	A	A	A
H-515 (NATO)	A	A	A	~	X	A	A	A
Halon 1211, 1301	F	F	F	F	~	A	A	A
Helium Gas	X	X	X	X	X	A	A	A
Heptane	X	F	F	A	X	A	A	A
Hexane	X	F	F	A	X	A	A	A
HF-20, HF-28	~	A	A	A	A	A	A	A
Houghto-Safe 1055, 1110, 1115, 1120, 1130 (9)	X	X	X	X	A,7	A	A	A
Houghto-Safe 271 to 640	F	A	A	F	A	A	A	A
Houghto-Safe 419 Hydraulic Fluid	A	A	A	~	X	A	A	A
Houghto-Safe 419R Deicer Fluid	A	A	A	~	~	A	A	A
Houghto-Safe 5046, 5046W, 5047-F	A	A	A	A	X	A	A	A
HP 100C (Jack hammer oil)	F	A	A	A	X	A	A	A
HPWG 46B	F	A	A	F	~	A	A	A
Hul-E-Mul	A	A	A	~	X	A	A	A
Hychem C, EP1000, RDF	A	A	A	A	A	A	A	A
Hydra Safe E-190	A	A	A	F	X	A	A	A
Hydra-Cut 481, 496	A	A	A	~	X	A	A	A
Hydrafluid 760	A	A	A	~	X	A	A	A
Hydrochloric Acid	X	X	X	X	X	X	X	X
Hydrofluoric Acid	X	X	X	X	X	X	6	X
Hydrogen Gas	X	X	X	X	X	A	A	A
Hydrogen Peroxide	X	X	X	F	X	X	X	6
Hydrogen Sulfide	X	X	X	X	A	X	X	6
Hydrolube	**A**	**A**	**A**	**F**	**A**	**A**	**A**	**A**

Media

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
Hydrolubric 120-B, 141, 595	F	A	A	F	A	A	A	A
Hydrosafe Glycol 200	A	A	A	A	A	A	F	A
HyJet IV	X	X	X	X	A,7	A	A	A
Hyspin SP 10	~	A	A	A	~	A	A	A
Ideal Yellow 77	A	A	A	A	X	A	A	A
Imol S150 to S550	X	X	X	~	~	A	A	A
Ingersoll Rand SSR Coolant	X	X	X	F	X	A	A	A
Isocyanates	F	F	F	F	X	A	~	A
Isooctane	X	F	F	A	X	A	A	A
Isopar H	X	X	X	X	X	A	A	A
Isopropyl Alcohol	F	F	F	F	F	F	A	A
Jayflex DIDP	X	X	X	X	A	A	A	A
JP3 and JP4	X	A,3	A,3	~	X	A	A	A
JP5	X	A,3	A,3	F,3	X	A	A	A
JP9	X	X	X	X	X	A	~	A
Kaeser 150P, 175P, 325R, 687R	X	X	X	F	X	A	A	A
Kerosene	X	A	A	F	X	A	A	A
KSL-214, 219, 220, 222	X	X	X	F	X	A	A	A
Lacquer	X	X	X	F	X	X	A	A
Lacquer Solvents	X	X	X	F	X	X	A	A
Lactic Acids	X	X	X	X	X	X	X	A
Lindol HF	X	X	X	F	A	A	A	A
Linseed Oil	A	A	A	A	A	A	A	A
LP-Gas			See numeral 11			A	A	A
Magnesium Chloride	A	A	A	A	A	X	X	X
Magnesium Hydroxide	F	F	F	A	A	F	F	F
Magnesium Sulfate	A	A	A	A	A	A	F	A
Mercaptans	X	X	X	X	X	~	~	~
Methane			See numeral 12			A	A	A
Methanol	F	F	F	F	F	F	A	A
Methyl Alcohol	F	F	F	F	F	F	A	A
Methyl Chloride	X	X	X	F	X	A	A	A
Methyl Ethyl Ketone (MEK)	X	X	X	F	X	F	A	A
Methyl Isopropyl-Ketone	X	X	X	X	X	F	A	A
Metsafe FR303-M, FR303	X	X	X	X	X	A	A	A
Metsafe FR310, FR315, FR330, FR350	X	X	X	X	F, 7	A	A	A
Microzol-T46	X	A	A	~	X	A	A	A
MIL-B-46176A	X	X	X	X	X	X	X	X
MIL-H-46170	X	F	F	F	X	A	A	A
MIL-H-5606	F	A	A	A	X	A	A	A
MIL-H-6083	F	A	A	A	X	A	A	A
MIL-H-7083	F	A	A	A	X	A	A	A
MIL-H-83282	F	A	A	A	X	A	A	A
MIL-L-2104, 2104B	F	A	A	A	X	A	A	A

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
MIL-L-23699	X	X	X	X	X	A	A	A
MIL-L-7808	F	A	A	~	X	A	A	A
Mine Guard FR	A	A	A	~	A	A	A	A
Mineral Oil	A	A	A	F	X	A	A	A
Mineral Spirits	8	8	8	8	X	A	A	A
Mobil Aero HFE	F	A	A	F	X	A	A	A
Mobil DTE 11M, 13M, 15M, 16M, 18M, 19M	F	A	A	A	X	A	A	A
Mobil DTE 22, 24, 25, 26	F	A	A	A	X	A	A	A
Mobil EAL 224H	X	A	A	X	~	A	A	A
Mobil EAL Artic 10, 15, 22,32, 46, 68, 100	X	X	X	X	X	A	A	A
Mobil EAL Evirosyn 46	A	A	A	A	X	A	A	A
Mobil Glygoyle 11, 22, 30, 80	A	A	A	~	X	A	A	A
Mobil HFA	F	A	A	A	X	A	A	A
Mobil Jet 2	X	F	F	A	X	A	A	A
Mobil Nyvac 20, 30, 200, FR	F	A	A	F	A	A	A	A
Mobil Rarus 824, 826, 827	X	X	X	F	X	A	A	A
Mobil SHC 500 Series	A	A	A	A	X	A	A	A
Mobil SHC 600 Series	F	A	A	A	X	A	A	A
Mobil SHC 800 Series	F	A	A	A	X	A	A	A
Mobil SHL 624	~	A	A	A	X	A	A	A
Mobil Vactra Oil	A	A	A	F	X	A	A	A
Mobil XRL 1618B	X	X	X	X	A,7	A	A	A
Mobilfluid 423	F	A	A	A	X	A	A	A
Mobilgear SHC 150, 220, 320, 460, 680	F	F	F	F	X	A	A	A
Mobilrama 525	A	A	A	F	X	A	A	A
Molub-Alloy 890	X	X	X	F	X	A	A	A
Moly Lube 'HF' 902	F	F	F	F	X	A	A	A
Monolec 6120 Hydraulic Oil	A	A	A	A	X	A	A	A
Morpholine (pure additive)	X	X	X	X	X	X	X	A
Naptha	X	F	F	A	X	A	A	A
Napthalene	X	X	X	F	X	A	A	A
Natural Gas			See numeral 12			A	A	A
Nitric Acid	X	X	X	X	X	X	X	F
Nitrobenzene	X	X	X	F	X	X	X	A
Nitrogen, gas	F,1	F,1	F,1	F,1	F,1	A	A	A
Nitrogen, liquid	X	X	X	X	X	X	X	X
NORPAR 12, 13, 15	8	8	8	8	X	A	A	A
Nuto H 46, 68	A	A	A	A	X	A	A	A
Nyvac 20, 30, 200, FR	F	A	A	F	A	A	A	A
Nyvac Light	X	X	X	~	A	A	A	A
Oceanic HW	F	A	A	F	X	A	A	A
Oxygen	X	X	X	X	X	X	A	A
Ozone	F	F	F	~	A	A	A	A
Pacer SLC 150, 300, 500, 700	X	X	X	F	X	A	A	A

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
Pennzbell AWX	F	A	A	F	X	A	A	A
Perchloroethylene	X	X	X	X	X	F	X	A
Petroleum Ether	X	F	F	F	X	A	A	A
Petroleum Oils	A	A	A	A	X	A	A	A
Phenol (Carbolic Acid)	X	X	X	A	X	X	F	A
Phosphate Ester Blends	X	X	X	X	X	A	A	A
Phosphate Esters	X	X	X	X	A,7	A	A	A
Phosphoric Acid	X	X	X	X	X	X	X	F
Plurasafe P 1000, 1200	F	A	A	A	F	A	A	A
Polyalkylene Glycol	A	A	A	~	X	A	A	A
Polyol Ester	X	F	A	X	X	A	A	A
Potassium Chloride	A	A	A	A	A	X	F	F
Potassium Hydroxide	X	X	X	F	A	6	X	A
Potassium Sulfate	A	A	A	A	A	A	A	A
Propane			See numeral 11			A	A	A
Propylene Glycol	F	A	A	A	A	F	F	F
Pydraul 10-E, 29-E, 50-E, 65-E, 90-E, 115-E	X	X	X	X	A,7	A	A	A
Pydraul 230-C, 312-C, 68-S	X	X	X	X	A,7	A	A	A
Pydraul 60, 150, 625, F9	X	X	X	X	A,7	A	A	A
Pydraul 90, 135, 230, 312, 540, MC	X	X	X	X	X	A	A	A
Pydraul A-200	X	X	X	F	X	A	A	A
Pyro Gard 43, 230, 630	X	X	X	X	X	A	A	A
Pyro Gard C, D, R, 40S, 40W	F	A	A	F	X	A	A	A
Pyro Guard 53, 55, 51, 42	X	X	X	X	A,7	A	A	A
Quakerol 641, 720	X	F	A	X	F	A	A	A
Quintolubric 700	A	A	A	A	A	A	F	A
Quintolubric 807-SN	F	A	A	~	X	A	A	A
Quintolubric 822, 833	X	F,5	A,5	X	X	A	A	A
Quintolubric 822-68EHC (71°C, 160°F maximum)	X	F,5	A,5	~	~	A	A	A
Quintolubric 888	X	F,5	A,5	X	X	A	A	A
Quintolubric 957, 958	F	A	A	F	A	A	A	A
Quintolubric N822-300	~	~	A	~	~	A	A	A
Rando	A	A	A	A	X	A	A	A
Rayco 782	X	F	A	X	X	X	X	X
Refrigerant 124			See numeral 4			A	A	A
Refrigerant Freon 113, 114	X	X	X	X	X	A	A	A
Refrigerant Freon 12			See numeral 4			A	A	A
Refrigerant Freon 22			See numeral 4			A	A	A
Refrigerant Freon 502			See numeral 4			A	A	A
Refrigerant HFC134A			See numeral 4			A	A	A
Reolube Turbofluid 46	X	X	X	X	A,7	A	A	A
Rotella	A	A	A	A	X	A	A	A
Royal Bio Guard 3032, 3046, 3068, 3100	X	~	A	X	X	A	A	A
Royco 2200, 2210, 2222, 2232, 2246, 2268	X	X	X	X	X	A	A	A
Royco 4032, 4068, 4100, 4150	**X**	**X**	**X**	**F**	**X**	**A**	**A**	**A**

Media

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MEDIA	I	II	III	IV	V	Steel	Brass	SS
Royco 756, 783	A	A	A	A	X	A	A	A
Royco 770	X	F	F	F	X	A	A	A
RTV Silicone Adhesive Sealants	X	X	X	X	X	A	A	A
Safco-Safe T10, T20	~	~	~	~	A	F	F	A
Safety-Kleen ISO 32, 46, 68 hydraulic oil	F	A	A	~	X	A	A	A
Safety-Kleen Solvent	F,8	F,8	F,8	F,8	X	A	A	A
Santoflex 13	F	F	F	~	F	A	A	A
Santosafe 300	X	X	X	~	X	A	A	A
Santosafe W/G 15 to 30	~	~	~	A	A	A	A	A
Schaeffer Oil #112 HTC @ 158°F max	A	A	A	~	X	A	A	A
Schaeffer Oil #112 HTC @ 158°F to 212°F	F	F	F	~	X	A	A	A
Schaeffer Oil #275 Dilex Supreme @ 158°F max	A	A	A	~	X	A	A	A
Schaeffer Oil #275 Dilex Supreme @ 158°F to 212°F	F	F	F	~	X	A	A	A
Sea Water	F	F	F	F	A	X	F	A
Sewage	F	F	F	A	F	X	F	A
Shell 140 Solvent	8	8	8	8	X	A	A	A
Shell Clavus HFC 68	X	X	X	X	X	A	A	A
Shell Comptella Oil	F	F	F	A	X	A	A	A
Shell Comptella Oil S 46, 68	F	F	F	A	X	A	A	A
Shell Comptella Oil SM	F	F	F	A	X	A	A	A
Shell Diala A, (R) Oil AX	F	A	A	F	X	A	A	A
Shell FRM	~	~	~	~	X	A	A	A
Shell IRUS 902, 905	A	A	A	~	A	A	A	A
Shell Pella-A	A	A	A	A	X	A	A	A
Shell Tellus	F	A	A	A	X	A	A	A
Shell Thermia Oil C	A	A	A	A	X	A	A	A
Shell Turbo R	X	F	F	A	X	A	A	A
SHF 220, 300, 450	X	X	A	X	X	A	A	A
Silicate Esters	A	F	F	A	X	A	A	A
Silicone Oils	A	A	A	~	~	A	A	A
Silicone Sealants	X	X	X	X	X	A	A	A
Skydrol 500B-4, LD-4	X	X	X	X	A,7	A	A	A
Soap Solutions	X	F	F	F	A	A	A	A
Soda Ash, Sodium Carbonate	A	A	A	A	A	A	F	A
Sodium Bisulfate	F	F	F	A	A	F	A	F
Sodium Chloride	F	F	F	A	A	X	F	A
Sodium Hydroxide	X	X	X	A	A	A	X	A
Sodium Hypochlorite	F	F	F	X	F	X	X	X
Sodium Nitrate	F	F	F	A	A	A	F	A
Sodium Peroxide	X	X	X	X	A	X	X	A
Sodium Silicate	A	A	A	A	A	A	A	A
Sodium Sulfate	A	A	A	A	A	A	A	A
Soybean Oil	F	A	A	A	A	A	A	A
SSR Coolant	X	X	X	F	X	A	A	A
Steam	X	X	X	X	X	F	A	A

⚠Warning: This chemical compatibility guide must not be used in conjunction with any other compatibility guides from previous or future catalog editions, bulletins or publications. Incorrect use of these charts could result in death, personal injury or property damage.

MEDIA	I	II	III	IV	V	Steel	Brass	SS
Stoddard Solvent	8	8	8	8	X	A	A	A
Sulfur Chloride	X	X	X	F	X	X	X	X
Sulfur Dioxide	X	X	X	X	F	X	F	F
Sulfur Trioxide	X	X	X	F	F	X	X	X
Sulfuric Acid 0%-30% Room Temp	F,6	F,6	F,6	X	F,6	6	X	6
Summa-20, Rotor, Recip	X	X	X	F	X	A	A	A
Summit DSL-32,68,100,125	X	X	X	F	X	A	A	A
Sun Minesafe, Sun Safe	X	F	F	F	X	A	A	A
Sundex 8125	X	F	F	~	A	A	A	A
Suniso 3GS	A	A	A	A	X	A	A	A
Sun-Vis 722	X	F	F	~	X	A	A	A
Super Hydraulic Oil 100, 150, 220	A	A	A	A	X	A	A	A
SUVA MP 39, 52, 66	X	X	X	X	X	A	A	A
SYNCON Oil	X	X	X	X	X	A	A	A
Syndale 2820	X	F	F	~	~	A	A	A
Synesstic 32,68,100	X	X	X	X	X	A	A	A
Syn-Flo 70,90	X	X	X	F	X	A	A	A
SYN-O-AD 8478	X	X	X	X	A,7	A	A	A
Tannic Acid	F	A	A	F	A	X	F	X
Tar	F	F	F	F	X	X	F	A
Tellus (Shell)	F	A	A	A	X	A	A	A
Texaco 760 Hydrafluid	~	~	~	~	X	A	A	A
Texaco 766, 763 (200 - 300)	~	~	~	~	A	F	F	A
Texaco A-Z Oil	A	A	A	F	X	A	A	A
Texaco Spindura Oil 22	F	F	F	F	X	A	A	A
Texaco Way Lubricant 68	A	A	A	A	X	A	A	A
Thanol-R-650-X	X	F	F	~	X	A	A	A
Thermanol 60	X	X	X	X	X	A	A	A
Toluene, Toluol	X	X	X	X	X	A	A	A
Transmission Oil	A	A	A	A	X	A	A	A
Tribol 1440	X	F	F	X	X	A	A	A
Trichloroethylene	X	X	X	F	X	X	A	A
Trim-Sol	F	A	A	F	X	A	A	A
Turbinol 50, 1122, 1223	X	X	X	X	A,7	A	A	A
Turpentine	X	X	X	F	X	A	A	A
Ucon Hydrolubes	F	A	A	F	A	A	A	A
UltraChem 215,230,501,751	X	X	X	F	X	A	A	A
Univis J26	A	A	A	A	X	A	A	A
Unleaded Gasoline			See numeral 9		~	A	A	A
Unocal 66/3 Mineral Spirits	8	8	8	8	X	A	A	A
Urea	F	F	F	A	F	F	~	F
Urethane Formulations	A	A	A	A	~	A	A	A
Van Straaten 902	A	A	A	A	X	A	A	A
Varnish	X	X	X	F	X	F	F	A
Varsol	8	F	F	8	X	A	A	A
Versilube F44, F55	~	A	A	A	~	A	A	A
Vinegar	X	X	X	F	A	F	X	A
Vital 29, 4300, 5230, 5310	X	X	X	X	X	A	A	A
Volt Esso 35	A	A	A	A	X	A	A	A
Water	F	A	A	A	A	F	A	A
Water / Glycols	A	A	A	A	A	A	F	A
Xylene, Xylol	X	X	X	X	X	A	A	A
Zerol 150	A	A	A	A	X	A	A	A
Zinc Chloride	A	A	A	X	A	X	X	F
Zinc Sulfate	A	A	A	X	A	X	A	A

Pressure

Pressure Rating of Hose End Connections

PRESSURE RATINGS HOSE ASSEMBLIES - PSI

THE MAXIMUM DYNAMIC WORKING PRESSURE OF THE HOSE ASSEMBLY IS THE LESSER OF THE RATED WORKING PRESSURE OF THE HOSE AND THE END CONNECTIONS USED.

Hose End Connection Description	Part Number Codes	Inch Size Fittings (psi)												
		-2	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48
Male Pipe (NPTF)	01	12,000	12,000		10,000	10,000		7,500	6,500	5,000	3,000	2,500		
Female Pipe (NPTF, NPSM)	02 & 07	7,500	7,000		6,000	5,000		4,000	3,000	2,500	2,000	2,000		
Male Pipe (BSP)	91 & D9	5,000	9,000		8,000	6,250		5,000	4,000	3,500	3,000	3,000		
Female Pipe (BSP)	92, B1, B2 & B4	5,000	9,000		8,000	6,250	5,500	5,000	4,000	3,500	3,000	3,000		
JIS	FU, GU, MU & UT		5,000		5,000	5,000		4,000	3,000	2,500	1,500	1,500		
O-Ring Swivel and 45° Flare*	13, 1L, S2, 0G, 0L,48, 08, 77 & 79		3,000	3,000	3,000	3,000	2,750	2,250	2,000	1,625	1,250	1,125		
37° Flare and Straight Thread*	03, 05, 06**, 37, 39**,41, L7 & L9		6,000	6,000	5,000	5,000	5,000	5,000	4,000	3,000	2,500	2,500		
SAE Flareless	11 & 12		6,000	6,000	5,600	5,600	4,200	4,200	3,500	3,500	3,000	3,000		
SAE Inverted Flare	28, 67 & 69		2,750	2,500	2,250	2,000								
Seal-Lok®* (O-ring Face Seal)	JM, JC, JS, J0, J1, J5, J7 & J9		9,200		9,200	9,200	6,000	6,000	6,000	4,000	4,000	3,000		
SAE Flanges Code 61	15, 16, 17, 18, 19, 26, 27 & 89					5,000		5,000	5,000	4,000	4,000	3,000	2,500	2,000
SAE Flanges Code 61 Special	4A, 4B, 4F, 4G & 4N									5,000	5,000	5,000		
SAE Flanges Code 62	6A, 6E, 6F, 6G, 6N,XA, XF, XG & XN							6,000	6,000	6,000	6,000	6,000		
Female Slip-fit for Counterbore Brazing-1S926	S9				2,250	2,000	1,750	1,500						
Female Slip-fit for Counterbore Brazing-1S943	S9		4,000		4,000	4,000	4,000	4,000	3,000	3,000				

For adapter pressure ratings, see Tube Fittings Division catalog 4300.
*NOTE: 45°, 37° and Seal-Lok Torque Tables are on page E-19
**NOTE: For pressure rating of 01, 06 and 39 end configurations in 73, 77, 78, and 79 series, see each description in Section 2.

Hose End Connection Description	Part Number Codes	Metric Fittings (psi)															
		-6	-8	-10	-12	-14	-15	-16	-18	-20	-22	-25	-28	-30	-35	-38	-42
DIN Light "L" without O-Ring	C3, C4, C5 & 1D	3,500	3,500	3,500	3,500		3,500		2,250		2,250		1,400		1,400		1,400
DIN Light "L" with O-Ring	D0, CA, CE & CF	4,500	4,500	4,500	4,500		4,500		2,250		2,250		2,250		2,250		2,250
DIN Heavy "S" without O-Ring	C6, C7, C8 & 3D		9,000	9,000	9,000	9,000		5,750		5,750		5,750		3,500		3,500	
DIN Heavy "S" with O-Ring	C9, 0C, 1C & D2		9,000	9,000	9,000	9,000		6,000		6,000		6,000		6,000		4,500	
DIN 20078 Form C	C0										900		900		900		900
Banjo	49	3,000	3,000	3,000	3,000		3,000			3,000	3,000	3,000					
French Metric	F9 & FA			3,000	3,500	2,000			2,250	2,000	1,900			1,750			

Hose End Connection Description	Part Number Codes	French Gaz Fittings (psi)				
		-13	-17	-21	-27	-33
French Gaz	F4, FG, GJ & GE	5,250	3,900	3,700	3,000	2,500

The Maximum working pressure of hoses are listed with each hose description in Section 1.

Pressure

Metric Pressure Conversions

PRESSURE CONVERSIONS									
Kilo-Pascals (kPa)	Mega-Pascals (MPa)	Bar (bar)	Kilograms per Square Centime-ter	lbs per Square Inch (psi)	lbs per Square Inch (psi)	Kilo-Pascals (kPa)	Mega-Pascals (MPa)	Bar (bar)	Kilograms per Square Centimeter (Kgf/cm ^{2})
100	0,1	1,00	1.0	14.50	10	68.9	0,07	0,7	0.70
200	0,2	2,00	2.0	29.00	20	137.9	0,14	1,4	1.41
300	0,3	3,00	3.1	43.50	30	206.8	0,21	2,1	2.11
400	0,4	4,00	4.1	58.00	40	275.8	0,28	2,8	2.81
500	0,5	5,00	5.1	72.50	50	344.7	0,34	3,4	3.52
600	0,6	6,00	6.1	87.00	60	413.7	0,41	4,1	4.22
700	0,7	7,00	7.1	101.50	70	482.6	0,48	4,8	4.92
800	0,8	8,00	8.2	116.00	80	551.6	0,55	5,5	5.63
900	0,9	9,00	9.2	130.50	90	620.5	0,62	6,2	6.33
1000	1,0	10,00	10.2	145.00	100	689.0	0,70	6,9	7.00
2000	2,0	20,00	20.4	290.10	200	1379.0	1,40	13,8	14.10
3000	3,0	30,00	30.6	435.10	300	2068.0	2,10	20,7	21.10
4000	4,0	40,00	40.8	580.20	400	2758.0	2,80	27,6	28.10
5000	5,0	50,00	51.0	725.20	500	3447.0	3,40	34,5	35.20
6000	6,0	60,00	61.2	870.20	600	4137.0	4,10	41,4	42.20
7000	7,0	70,00	71.4	1015.30	700	4826.0	4,80	48,3	49.20
8000	8,0	80,00	81.6	1160.30	800	5516.0	5,50	55,2	56.30
9000	9,0	90,00	91.8	1305.30	900	6205.0	6,20	62,1	63.30
10000	10,0	100,00	102.0	1450.00	1000	6895.0	6,90	68,9	70.30
20000	20,0	200,00	204.0	2901.00	2000	13790.0	13,80	137,9	140.70
30000	30,0	300,00	306.0	4351.00	3000	20684.0	20,70	206,8	211.00
40000	40,0	400,00	408.0	5802.00	4000	27579.0	27,60	275,8	281.30
50000	50,0	500,00	510.0	7252.00	5000	34474.0	34,50	344,7	351.60
60000	60,0	600,00	612.0	8702.00	6000	41369.0	41,40	413,7	421.90
70000	70,0	700,00	714.0	10153.00	7000	48263.0	48,30	482,6	492.30
80000	80,0	800,00	816.0	11603.00	8000	55158.0	55,20	551,6	562.60
90000	90,0	900,00	918.0	13053.00	9000	62053.0	62,10	620,5	632.90
100000	100,0	1000.00	1020.0	14504.00	10000	68948.0	68,90	689,0	703.00
200000	200,0	2000.00	2040.0	29008.00	20000	137895.0	137,90	1379,0	1406.00
300000	300,0	3000.00	3060.0	43511.00	30000	206843.0	206,80	2068,0	2110.00
					40000	275790.0	275,80	2758,0	2813.00

Conversions

PSI and MPa or N/mm² Conversions

Pounds per Square Inch (abbrev. PSI) - A basic unit of pressure or tension measurement in the Imperial or English System of Weights and Measures.

1 psi = .006895 MPa,
1000 psi = 1 ksi

MegaPascal (abbrev. MPa) - A basic unit of pressure or tension measurement in the International System of Weights and Measures.

1 MPa = 145 psi,
1 MPa = 1 N/mm².

For oil field applications, units of measurement smaller than 1 psi usually have little meaning. Units of MPa may often appear with a decimal.

Example: 1000 psi = 6.895 MPa.

1 MegaPascal (MPa) = 1 Newton per Square Millimeter (N/mm²) = 145 Pounds per Square Inch (psi).

Psi, Ksi, MPa, and N/mm² all express force measurement, either pressure (as fluid pressure) or load (as tension). All of these terms may appear as pressure ratings or test pressures, and tensile or yield requirements or test results.

API Spec 6A specifies equipment pressure ratings in both PSI, and MPa as:

2,000 psi	=	13.8 MPa	=	138 bar
3,000 psi	=	20.7 MPa	=	207 bar
5,000 psi	=	34.5 MPa	=	345 bar
10,000 psi	=	69.0 MPa	=	690 bar
15,000 psi	=	103.5 MPa	=	1,035 bar
20,000 psi	=	138.0 MPa	=	1,380 bar
Bar pressure provided for information only.				

To express PSI pressures in bars, convert PSI to MPa and move the decimal in the MPa value 1 space to the right, e.g. 5000 PSI = 34.5 MPa = 345 bar.

API Spec 6A specifies material property requirements* as:

Material Designation	Yield		Tensile	
	PSI	MPa	PSI	MPa
36 K	36,000	248	70,000	483
45 K	45,000	310	70,000	483
60 K	60,000	414	85,000	586
75 K	75,000	517	95,000	655

*For Elongation and Reduction of Area, see API Spec 6A. The values specified for these requirements do not require conversion.

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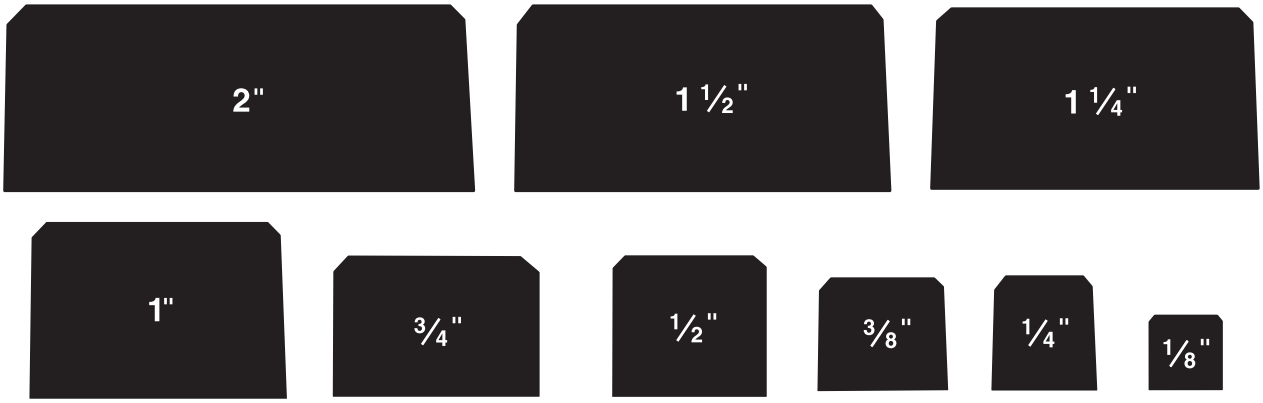
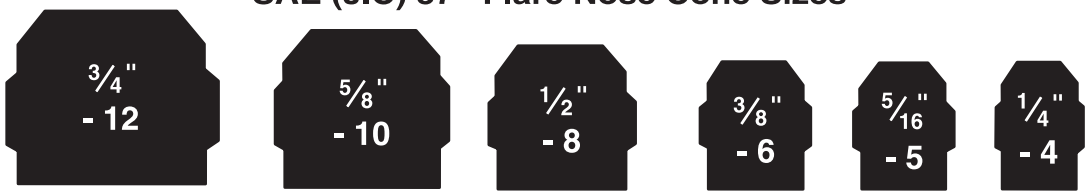
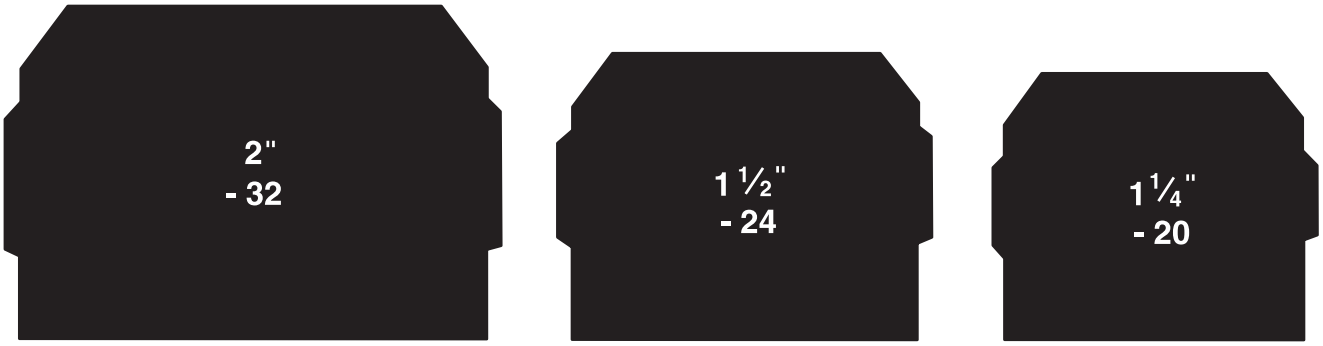


SAE (JIC) 37° Flare Nose Cone Sizes

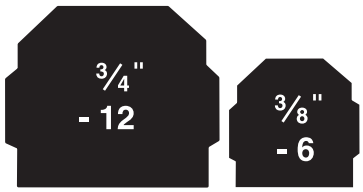


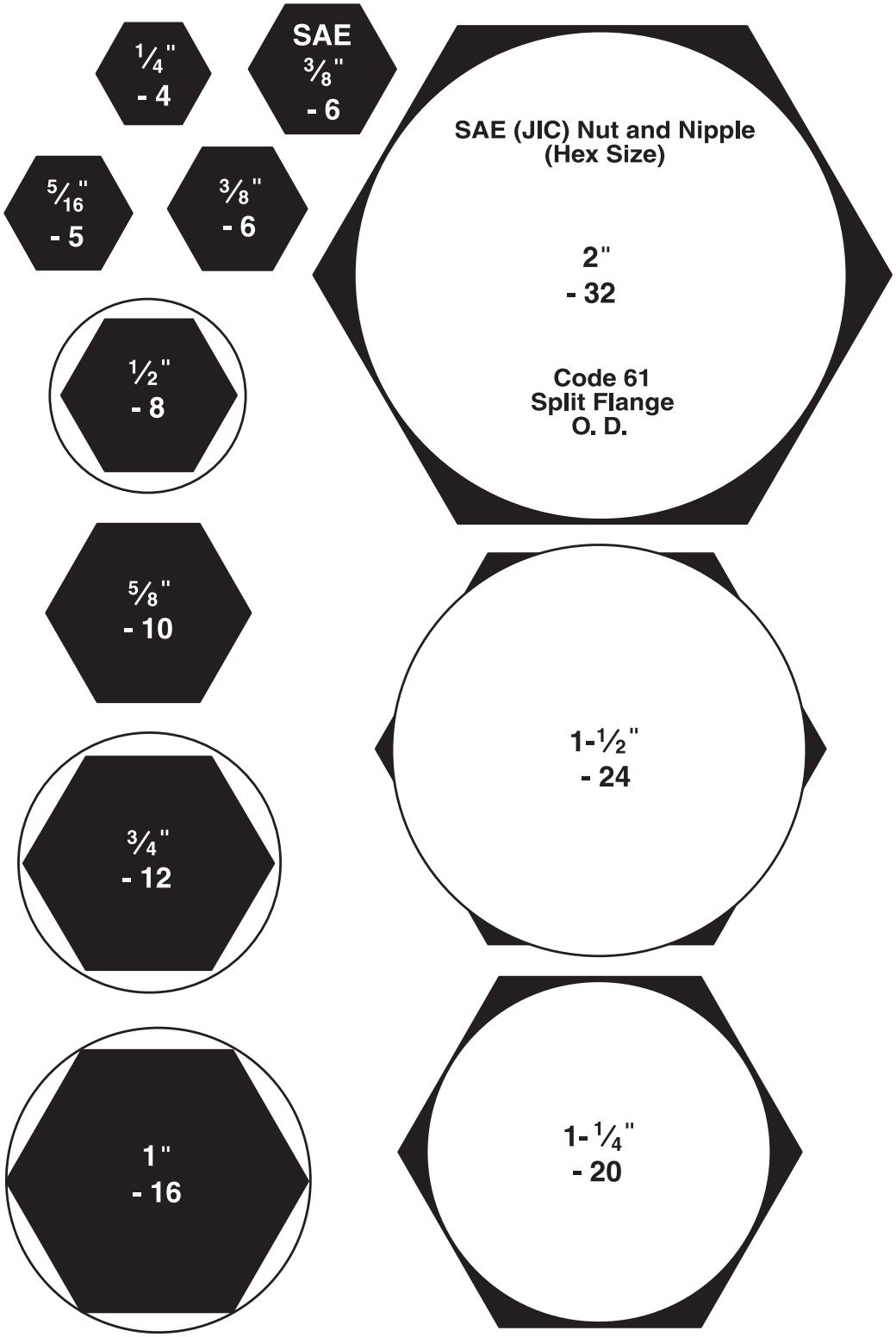
SAE (JIC) 37° Flare Nose Cone Sizes



37° and 45° Flare Nose Angles

SAE 45° Flare Nose Cone Sizes




1/4"
- 4
SAE
3/8"
- 6
5/16"
- 5
3/8"
- 6
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(Hex Size)
2"
- 32
Code 61
Split Flange
O. D.
1/2"
- 8
5/8"
- 10
1-1/2"
- 24
3/4"
- 12
1"
- 16
1-1/4"
- 20

Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings, Connectors, Conductors, Valves and Related Accessories

Parker Publication No. 4400-B.1

WARNING: Failure or improper selection or improper use of hose, tubing, fittings, assemblies, valves, connectors, conductors or related accessories ("Products") can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of these Products include but are not limited to:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric powerlines.
- Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping Hose.
- Tube or pipe burst.
- Weld joint fracture.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup or other sources of electricity.
- Sparking or explosion while spraying paint or flammable liquids.
- Injuries resulting from inhalation, ingestion or exposure to fluids.

Before selecting or using any of these Products, it is important that you read and follow the instructions below. No product from any division in Parker Fluid Connectors Group is approved for in-flight aerospace applications. For hoses and fittings used in in-flight aerospace applications, please contact Parker Aerospace Group.

1.0 GENERAL INSTRUCTIONS

1.1 Scope: This safety guide provides instructions for selecting and using (including assembling, installing, and maintaining) these Products. For convenience, all rubber and/or thermoplastic products commonly called "hose" or "tubing" are called "Hose" in this safety guide. Metallic tube or pipe are called "tube". All assemblies made with Hose are called "Hose Assemblies". All assemblies made with Tube are called "Tube Assemblies". All products commonly called "fittings", "couplings" or "adapters" are called "Fittings". Valves are fluid system components that control the passage of fluid. Related accessories are ancillary devices that enhance or monitor performance including crimping, flaring, flanging, presetting, bending, cutting, deburring, swaging machines, sensors, tags, lockout handles, spring guards and associated tooling. This safety guide is a supplement to and is to be used with the specific Parker publications for the specific Hose, Fittings and Related Accessories that are being considered for use. Parker publications are available at www.parker.com. SAE J1273 (www.sae.org) and ISO 17165-2 (www.iso.org) also provide recommended practices for hydraulic Hose Assemblies, and should be followed.

1.2 Fail-Safe: Hose, Hose Assemblies, Tube, Tube Assemblies and Fittings can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the Hose, Hose Assembly, Tube, Tube Assembly or Fitting will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person responsible for selecting or using Hose, Tube and Fitting products. Do not select or use Parker Hose, Tube or Fittings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the Products.

1.4 User Responsibility: Due to the wide variety of operating conditions and applications for Hose, Tube and Fittings. Parker does not represent or warrant that any particular Hose, Tube or Fitting is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the Products.
- Assuring that the user's requirements are met, and that the application presents no health or safety hazards.
- Following the safety guide for Related Accessories and being trained to operate Related Accessories.
- Providing all appropriate health and safety warnings on the equipment on which the Products are used.
- Assuring compliance with all applicable government and industry standards.

1.5 Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the Products being considered or used, or call 1-800-CPARKER, or go to www.parker.com, for telephone numbers of the appropriate technical service department.

2.0 HOSE, TUBE AND FITTINGS SELECTION INSTRUCTIONS

2.1 Electrical Conductivity: Certain applications require that the Hose be nonconductive to prevent electrical current flow. Other applications require the Hose and the Fittings and the Hose/Fitting interface to be sufficiently conductive to drain off static electricity. Extreme care must be exercised when selecting Hose, Tube and Fittings for these or any other applications in which electrical conductivity or nonconductivity is a factor.

The electrical conductivity or nonconductivity of Hose, Tube and Fittings is dependent upon many factors and may be susceptible to change. These factors include but are not limited to the various materials used to make the Hose and the Fittings, Fitting finish (some Fitting finishes are electrically conductive while others are nonconductive), manufacturing methods (including moisture control), how the Fittings contact the Hose, age and amount of deterioration or damage or other changes, moisture content of the Hose at any particular time, and other factors. The following are considerations for electrically nonconductive and conductive Hose. For other applications consult the individual catalog pages and the appropriate industry or regulatory standards for proper selection.

2.1.1 Electrically Nonconductive Hose: Certain applications require that the Hose be nonconductive to prevent electrical current flow or to maintain electrical isolation. For applications that require Hose to be electrically nonconductive, including but not limited to applications near high voltage electric lines, only special nonconductive Hose can be used. The manufacturer of the equipment in which the nonconductive Hose is to be used must be consulted to be certain that the Hose, Tube and Fittings that are selected are proper for the application. Do not use any Parker Hose or Fittings for any such application requiring nonconductive Hose, including but not limited to applications near high voltage electric lines or dense magnetic fields, unless (i) the application is expressly approved in the Parker technical publication for the product, (ii) the Hose is marked "nonconductive", and (iii) the manufacturer of the equipment on which the Hose is to be used specifically approves the particular Parker Hose, Tube and Fittings for such use.

2.1.2 Electrically Conductive Hose: Parker manufactures special Hose for certain applications that require electrically conductive Hose. Only hoses specifically designated for electrically conductive airless paint spraying should be used for airless paint spray applications. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in all airless paint spraying applications. Do not use any other Hose for airless paint spraying, even if electrically conductive. Use of any other Hose or failure to properly connect the Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. All hoses that convey fuels must be grounded. Parker manufactures special hoses for certain applications such as Compressed Natural Gas ("CNG") and Hydrogen (H2), where static electricity buildup may occur. Parker CNG and H2 Hose assemblies comply with globally recognized regulatory and test requirements for CNG and H2. These hoses are specifically printed with the approved gas service as well as important safety, application, and maintenance information on the hose assembly lay line, tagging, and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in, for example, high velocity CNG or H2 dispensing or transfer. Do not use any other Hose for CNG or H2 applications where static charge buildup may occur, even if electrically conductive. Use of other Hoses in CNG or H2 applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Care must also be taken to protect against CNG or H2 permeation through the Hose wall. See section 2.6, Permeation, for more information. Parker CNG or H2 Hose is intended for dispenser and vehicle use within the specified temperature range. Parker CNG or H2 Hose should not be used in confined spaces or unventilated areas or areas exceeding the specified temperature range. Final assemblies must be tested for leaks. CNG or H2 Hose Assemblies should be tested on

Parker Safety Guide, Parker Publication No. 4400-B.1 *(continued)*

a monthly basis for conductivity per the applicable regulatory specification. Parker manufactures special Hose for aerospace in-flight applications. Aerospace in-flight applications employing Hose to transmit fuel, lubricating fluids and hydraulic fluids require a special Hose with a conductive inner tube. This Hose for in-flight applications is available only from Parker's Stratoflex Products Division. Do not use any other Parker Hose for in-flight applications, even if electrically conductive. Use of other Hoses for in-flight applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury and property damage. These Hose assemblies for in-flight applications must meet all applicable aerospace industry, aircraft engine and aircraft requirements.

2.2 **Pressure:** Hose, Tube and Fitting selection must be made so that the published maximum working pressure of the Hose, Tube and Fittings are equal to or greater than the maximum system pressure. The maximum working pressure of a Hose, or Tube Assembly is the lower of the respective published maximum working pressures of the Hose, Tube and the Fittings used. Surge pressures or peak transient pressures in the system must be below the published maximum working pressure for the Hose, Tube and Fitting. Surge pressures and peak pressures can usually only be determined by sensitive electrical instrumentation that measures and indicates pressures at millisecond intervals. Mechanical pressure gauges indicate only average pressures and cannot be used to determine surge pressures or peak tran- sient pressures. Published burst pressure ratings for Hose is for manufacturing test purposes only and is no indication that the Product can be used in applications at the burst pressure or otherwise above the published maximum recommended working pressure.

2.3 **Suction:** Hoses used for suction applications must be selected to ensure that the Hose will withstand the vacuum and pressure of the system. Improperly selected Hose may collapse in suction application.

2.4 **Temperature:** Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the Hose, Tube, Fitting and Seals. Temperatures below and above the recommended limit can degrade Hose, Tube, Fittings and Seals to a point where a failure may occur and release fluid. Tube and Fittings performances are normally degraded at elevated temperature. Material compatibility can also change at temperatures outside of the rated range. Properly insulate and protect the Hose Assembly when routing near hot objects (e.g. manifolds). Do not use any Hose in any application where failure of the Hose could result in the conveyed fluids (or vapors or mist from the conveyed fluids) contacting any open flame, molten metal, or other potential fire ignition source that could cause burning or explosion of the conveyed fluids or vapors.

2.5 **Fluid Compatibility:** Hose, and Tube Assembly selection must assure compatibility of the Hose tube, cover, reinforcement, Tube, Plating and Seals with the fluid media used. See the fluid compatibility chart in the Parker publication for the product being considered or used. This information is offered only as a guide. Actual service life can only be determined by the end user by testing under all extreme conditions and other analysis.

Hose, and Tube that is chemically compatible with a particular fluid must be assembled using Fittings and adapters containing likewise compatible seals. Flange or flare processes can change Tube material properties that may not be compatible with certain requirements such as NACE

2.6 **Permeation:** Permeation (that is, seepage through the Hose or Seal) will occur from inside the Hose or Fitting to outside when Hose or Fitting is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials as helium, hydrogen, diesel fuel, gasoline, natural gas, CNG or LPG). This permeation may result in high concentrations of vapors which are potentially flammable, explosive, or toxic, and in loss of fluid. Dangerous explosions, fires, and other hazards can result when using the wrong Hose for such applications. The system designer must take into account the fact that this permeation will take place and must not use Hose or Fitting if this permeation could be hazardous. The system designer must take into account all legal, government, insurance, or any other special regulations which govern the use of fuels and refrigerants. Never use a Hose or Fitting even though the fluid compatibility is acceptable without considering the potential hazardous effects that can result from permeation through the Hose or Tube Assembly.

Permeation of moisture from outside the Hose or Fitting to inside the Hose or Fitting will also occur in Hose or Tube assemblies, regardless of internal pressure. If this moisture permeation would have detrimental effects (particularly, but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used. The sudden pressure re-lease of highly pressurized gas could also result in Explosive Decompression failure of permeated Seals and Hoses.

2.7 **Size:** Transmission of power by means of pressurized fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage due to heat genera- tion or excessive fluid velocity.

2.8 **Routing:** Attention must be given to optimum routing to minimize inherent problems (kinking or flow restriction due to Hose collapse, twisting of the Hose, proximity to hot objects or heat sources). For additional routing recommendations see SAE J1273 and ISO 17165-2. Hose Assemblies have a finite life and should be installed in a manner that allows for ease of inspection and future replacement. Hose because of its relative short life, should not be used in residential and commercial buildings inside of inaccessible walls or floors, unless specifically allowed in the product literature. Always review all product literature for proper installation and routing instructions.

2.9 **Environment:** Care must be taken to ensure that the Hose, Tube and Fittings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, sunlight, heat, ozone, moisture, water, salt water, chemicals and air pollutants can cause degradation and premature failure.

2.10 **Mechanical Loads:** External forces can significantly reduce Hose, Tube and Fitting life or cause failure. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type Fittings or adapters may be required to ensure no twist is put into the Hose. Use of proper Hose or Tube clamps may also be required to reduce external mechanical loads. Unusual applications may require special testing prior to Hose selection.

2.11 **Physical Damage:** Care must be taken to protect Hose from wear, snagging, kinking, bending smaller that minimum bend radius and cutting, any of which can cause premature Hose failure. Any Hose that has been kinked or bent to a radius smaller than the minimum bend radius, and any Hose that has been cut or is cracked or is otherwise damaged should be removed and discarded. Fittings with damages such as scratches on sealing surfaces and deformation should be replaced.

2.12 **Proper End Fitting:** See instructions 3.2 through 3.5. These recommenda-tions may be substantiated by testing to industry standards such as SAE or ISO for hydraulic applications, or MIL-A-5070, AS1339, or AS3517 for Hoses from Parker's Stratoflex Products Division for aerospace applications.

2.13 **Length:** When determining the proper Hose or Tube length of an assembly, be aware of Hose length change due to pressure, Tube length change due to thermal expansion or contraction, and Hose or Tube and machine tolerances and movement must be considered. When routing short hose assemblies, it is recommended that the minimum free hose length is always used. Consult the hose manufacturer for their minimum free hose length recommendations. Hose assemblies should be installed in such a way that any motion or flexing occurs within the same plane.

2.14 **Specifications and Standards:** When selecting Hose, Tube and Fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applicable.

2.15 **Hose Cleanliness:** Hose and Tube components may vary in cleanliness levels. Care must be taken to ensure that the Hose and Tube Assembly selected has an adequate level of cleanliness for the application.

2.16 **Fire Resistant Fluids:** Some fire-resistant fluids that are to be conveyed by Hose or Tube require use of the same type of Hose or Tube as used with petroleum base fluids. Some such fluids require a special Hose, Tube, Fitting and Seal, while a few fluids will not work with any Hose at all. See instructions 2.5 and 1.5. The wrong Hose, Tube, Fitting or Seal may fail after a very short service. In addition, all liquids but pure water may burn fiercely under certain conditions, and even pure water leakage may be hazardous.

2.17 **Radiant Heat:** Hose and Seals can be heated to destruction without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the Hose or Seal. Performance of Tube and Fitting subjected to the heat could be degraded.

2.18 **Welding or Brazing:** When using a torch or arc welder in close proximity to hydraulic lines, the hydraulic lines should be removed or shielded with appropriate fire-resistant materials. Flame or weld spatter could burn through the Hose or Seal and possibly ignite escaping fluid resulting in a catastrophic failure. Heating of plated parts, including Hose Fittings and adapters, above 450˚F (232˚C) such as during welding, brazing or soldering may emit deadly gases. Any elastomer seal on fittings shall be removed prior to welding or brazing, any metallic surfaces shall be protected after brazing or welding when necessary. Welding and brazing filler material shall be compatible with the Tube and Fitting that are joined.

Parker Safety Guide, Parker Publication No. 4400-B.1 *(continued)*

2.19 Atomic Radiation: Atomic radiation affects all materials used in Hose and Tube assemblies. Since the long-term effects may be unknown, do not expose Hose or Tube assemblies to atomic radiation. Nuclear applications may require special Tube and Fittings.

2.20 Aerospace Applications: The only Hose, Tube and Fittings that may be used for in-flight aerospace applications are those available from Park- er's Stratoflex Products Division. Do not use any other Hose or Fittings for in-flight applications. Do not use any Hose or Fittings from Parker's Stratoflex Products Division with any other Hose or Fittings, unless expressly approved in writing by the engineering manager or chief engineer of Stratoflex Products Division and verified by the user's own testing and inspection to aerospace industry standards.

2.21 Unlocking Couplings: Ball locking couplings or other Fittings with quick disconnect ability can unintentionally disconnect if they are dragged over obstructions, or if the sleeve or other disconnect member, is bumped or moved enough to cause disconnect. Threaded Fittings should be considered where there is a potential for accidental uncoupling.

2.22 Regulated Materials: Hose, Tubing and Fittings are made from a variety of materials and must be selected to comply and warn in accordance with applicable regulations. The system designer and end user must appropriately address end of life disposal.

3.0 HOSE AND FITTINGS ASSEMBLY AND INSTALLATION INSTRUCTIONS

3.1 Component Inspection: Prior to assembly, a careful examination of the Hose and Fittings must be performed. All components must be checked for correct style, size, catalog number, and length. The Hose must be examined for cleanliness, obstructions, blisters, cover looseness, kinks, cracks, cuts or any other visible defects. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion or other imperfections. Do NOT use any component that displays any signs of nonconformance.

3.2 Hose and Fitting Assembly: Do not assemble a Parker Fitting on a Parker Hose that is not specifically listed by Parker for that Fitting, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Do not assemble a Parker Fitting on another manufacturer's Hose or a Parker Hose on another manufacturer's Fitting unless (i) the engineering manager or chief engineer of the appropriate Parker division approves the Assembly in writing or that combination is expressly approved in the appropriate Parker literature for the specific Parker product, and (ii) the user verifies the Assembly and the application through analysis and testing. For Parker Hose that does not specify a Parker Fitting, the user is solely responsible for the selection of the proper Fitting and Hose Assembly procedures. See instruction 1.4.

To prevent the possibility of problems such as leakage at the Fitting or system contamination, it is important to completely remove all debris from the cutting operation before installation of the Fittings. The Parker published instructions must be followed for assembling the Fittings on the Hose. These instructions are provided in the Parker Fitting catalog for the specific Parker Fitting being used, or by calling 1-800-CPARKER, or at www.parker.com.

3.3 Related Accessories: Do not crimp or swage any Parker Hose or Fitting with anything but the listed swage or crimp machine and dies in accordance with Parker published instructions. Do not crimp or swage another manufacturer's Fitting with a Parker crimp or swage die unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

3.4 Parts: Do not use any Parker Fitting part (including but not limited to socket, shell, nipple, or insert) except with the correct Parker mating parts, in accordance with Parker published instructions, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

3.5 Field Attachable/Permanent: Do not reuse any field attachable Hose Fitting that has blown or pulled off a Hose. Do not reuse a Parker permanent Hose Fitting (crimped or swaged) or any part thereof. Complete Hose Assemblies may only be reused after proper inspection under section 4.0. Do not assemble Fittings to any previously used hydraulic Hose that was in service, for use in a fluid power application.

3.6 Pre-Installation Inspection: Prior to installation, a careful examination of the Hose Assembly must be performed. Inspect the Hose Assembly for any damage or defects. DO NOT use any Hose Assembly that displays any signs of nonconformance.

3.7 Minimum Bend Radius: Installation of a Hose at less than the minimum listed bend radius may significantly reduce the Hose life. Particular attention must be given to preclude sharp bending at the Hose to Fitting juncture. Any bending during installation at less than the minimum bend radius must be avoided. If any Hose is kinked during installation, the Hose must be discarded.

3.8 Twist Angle and Orientation: Hose Assembly installation must be such that relative motion of machine components does not produce twisting.

3.9 Securement: In many applications, it may be necessary to restrain, protect, or guide the Hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to ensure such restraints do not introduce additional stress or wear points.

3.10 Proper Connection of Ports: Proper physical installation of the Hose Assembly requires a correctly installed port connection insuring that no twist or torque is transferred to the Hose when the Fittings are being tightened or otherwise during use.

3.11 External Damage: Proper installation is not complete without ensuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

3.12 System Checkout: All air entrapment must be eliminated, and the system pressurized to the maximum system pressure (at or below the Hose maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potentially hazardous areas while testing and using.

3.13 Routing: The Hose Assembly should be routed in such a manner so if a failure does occur, the escaping media will not cause personal injury or property damage. In addition, if fluid media comes in contact with hot surfaces, open flame or sparks, a fire or explosion may occur. See section 2.4.

3.14 Ground Fault Equipment Protection Devices (GFEPDs): WARNING! Fire and Shock Hazard. To minimize the danger of fire if the heating cable of a Multitube bundle is damaged or improperly installed, use a Ground Fault Equipment Protection Device. Electrical fault currents may be insufficient to trip a conventional circuit breaker.

For ground fault protection, the IEEE 515: (www.ansi.org) standard for heating cables recommends the use of GFEPDs with a nominal 30 milliampere trip level for "piping systems in classified areas, those areas requiring a high degree of maintenance, or which may be exposed to physical abuse or corrosive atmospheres".

4.0 TUBE AND FITTINGS ASSEMBLY AND INSTALLATION INSTRUCTIONS

4.1 Component Inspection: Prior to assembly, a careful examination of the Tube and Fittings must be performed. All components must be checked for correct style, size, material, seal, and length. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion, missing seal or other imperfections. Do NOT use any component that displays any signs of nonconformance.

4.2 Tube and Fitting Assembly: Do not assemble a Parker Fitting with a Tube that is not specifically listed by Parker for that Fitting, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. The Tube must meet the requirements specified to the Fitting.

The Parker published instructions must be followed for assembling the Fittings to a Tube. These instructions are provided in the Parker Fitting catalog for the specific Parker Fitting being used, or by calling 1-800-CPARKER, or at www.parker.com.

4.3 Related Accessories: Do not preset or flange Parker Fitting components using another manufacturer's equipment or procedures unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Tube, Fitting component and tooling must be check for correct style, size and material. Operation and maintenance of Related Accessories must be in accordance with the operation manual for the designated Accessory.

4.4 Securement: In many applications, it may be necessary to restrain, protect, or guide the Tube to protect it from damage by unnecessary flexing, pressure surges, vibration, and contact with other mechanical components. Care must be taken to ensure such restraints do not introduce additional stress or wear points.

4.5 Proper Connection of Ports: Proper physical installation of the Tube Assembly requires a correctly installed port connection insuring that no torque is transferred to the Tube when the Fittings are being tightened or otherwise during use.

4.6 External Damage: Proper installation is not complete without ensuring that tensile loads, side loads, flattening, potential abrasion, thread damage or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

4.7 System Checkout: All air entrapment must be eliminated, and the system pressurized to the maximum system pressure (at or below the Tube Assembly maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potentially hazardous areas while testing and using.

4.8 Routing: The Tube Assembly should be routed in such a manner so if a failure does occur, the escaping media will not cause personal injury or property damage. In addition, if fluid media comes in contact with hot surfaces, open flame or sparks, a fire or explosion may occur. See section 2.4.

5.0 PRODUCT MAINTENANCE AND REPLACEMENT INSTRUCTIONS

Parker Safety Guide, Parker Publication No. 4400-B.1 *(continued)*

5.1 Even with proper selection and installation, a Products (refer to section 1.1) life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a possible Product failure, and experience with any Product failures in the application or in similar applications should determine the frequency of the inspection and the replacement for the Products, so that Products are replaced before any failure occurs. Certain products require maintenance and inspection per industry requirements. Failure to adhere to these requirements may lead to premature failure. A maintenance program must be established and followed by the user and, at minimum, must include instructions 5.2 through 5.7

5.2 Visual Product Inspection: Any of the following conditions require immediate shut down and replacement of the Hose/Tube Assembly:

- Fitting slippage on Hose/Tubing;
- Damaged, cracked, cut or abraded tube or cover (any reinforcement exposed);
- Hard, stiff, heat cracked, or charred Hose;
- Cracked, damaged, or badly corroded Fittings;
- Leaks at Fitting or in Hose;
- Kinked, crushed, flattened or twisted Hose; and
- Blistered, soft, degraded, or loose cover.

5.3 Visual Inspection All Other: The following items must be tightened, repaired, corrected or replaced as required:

- Leaking port conditions;
- Excess dirt buildup;
- Worn clamps, guards or shields; and
- System fluid level, fluid type, and any air entrapment.

5.4 Functional Test: Operate the system at maximum operating pressure and check for possible malfunctions and leaks. Personnel must avoid potentially hazardous areas while testing and using the system. See section 2.2.

5.5 Replacement Intervals: Hose assemblies and elastomeric seals used on Hose Fittings and adapters will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Hose Assemblies and elastomeric seals should be inspected and replaced at specific replacement intervals, based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk. See section 1.2. Hose and Fittings may be subjected to internal mechanical and/or chemical wear from the conveying fluid and may fail without warning. The user must determine the product life under such circumstances by testing. Also see section 2.5.

5.6 Hose Inspection and Failure: Hydraulic power is accomplished by utilizing high pressure fluids to transfer energy and do work. Hoses, Fittings and Hose Assemblies all contribute to this by transmitting fluids at high pressures. Fluids under pressure can be dangerous and potentially lethal and, therefore, extreme caution must be exercised when working with fluids under pressure and handling the Hoses transporting the fluids. From time to time, Hose Assemblies will fail if they are not replaced at proper time intervals. Usually, these failures are the result of some form of misapplication, abuse, wear or failure to perform proper maintenance. When Hoses fail, generally the high-pressure fluids inside escape in a stream which may or may not be visible to the user. Under no circumstances should the usattempt to locate the leak by "feeling" with their hands or any other part of their body. High pressure fluids can and will penetrate the skin and cause severe tissue damage and possibly loss of limb. Even seemingly minor hydraulic fluid injection injuries must be treated immediately by a physician with knowledge of the tissue damaging properties of hydraulic fluid.

If a Hose failure occurs, immediately shut down the equipment and leave the area until pressure has been completely released from the Hose Assembly. Simply shutting down the hydraulic pump may or may not eliminate the pressure in the Hose Assembly. Many times, check valves, etc., are employed in a system and can cause pressure to remain in a Hose Assembly even when pumps or equipment are not operating. Tiny holes in the Hose, commonly known as pinholes, can eject small, dangerously powerful but hard to see streams of hydraulic fluid. It may take several minutes or even hours for the pressure to be relieved so that the Hose Assembly may be examined safely.

Once the pressure has been reduced to zero, the Hose Assembly may be taken off the equipment and examined. It must always be replaced if a failure has occurred. Never attempt to patch or repair a Hose Assembly that has failed. Consult the nearest Parker distributor or the appropriate Parker division for Hose Assembly replacement information.

Never touch or examine a failed Hose Assembly unless it is obvious that the Hose no longer contains fluid under pressure. The high-pressure fluid is extremely dangerous and can cause serious and potentially fatal injury.

5.7 Elastomeric seals: Elastomeric seals will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Elastomeric seals should be inspected and replaced.

5.8 Refrigerant gases: Special care should be taken when working with refrigeration systems. Sudden escape of refrigerant gases can cause blindness if the escaping gases contact the eye and can cause freezing or other severe injuries if it contacts any other portion of the body.

5.9 Compressed Natural Gas (CNG) and Hydrogen (H2): Parker CNG and H2 Hose Assemblies should be tested after installation and before use, and at least on a monthly basis per instructions provided on the Hose Assembly tag and including all applicable Standards and Codes for the application. The recommended procedure is to pressurize the Hose Assembly, check for leaks, visually inspect the Hose for damage, and perform an electrical resistance test.

Caution: Matches, candles, open flame or other sources of ignition shall not be used for Hose inspection leak detection. Leak check solutions should be rinsed off after use.

6.0 HOSE STORAGE

6.1 Age Control: Hose and Hose Assemblies must be stored in a manner that facilitates age control and first-in and first-out usage based on manufacturing date of the Hose and Hose Assemblies. Unless otherwise specified by the manufacturer or defined by local laws and regulations:

6.1.1 The shelf life of rubber hose in bulk form or hose made from two or more materials is 28 quarters (7 years) from the date of manufacture, with an extension of 12 quarters (3 years), if stored in accordance with ISO 2230.

6.1.2 The shelf life of thermoplastic and polytetrafluoroethylene hose is considered to be unlimited.

6.1.3 Hose assemblies that pass visual inspection and proof test shall not be stored for longer than 2 years.

6.1.4 For fittings with O-rings and Seals refer to the Parker O-Ring and Engineered Seals Division guidance on shelf life and age control.

6.1.5 Storage: Stored Hose, Fittings and Hose Assemblies must not be subjected to damage that could reduce their expected service life and must be placed in a cool, dark and dry area with the ends capped. Stored Hose, Fittings and Hose Assemblies must not be exposed to temperature extremes, ozone, oils, corrosive liquids or fumes, solvents, high humidity, rodents, insects, ultraviolet light, electromagnetic fields or radioactive materials.

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   - Goods: means any tangible part, system or component to be supplied by the Seller.
   - Products: means the Goods, Services and/or Software as described in a Quote provided by the Seller.
   - Quote: means the offer or proposal made by Seller to Buyer for the supply of Products.
   - Seller: means Parker-Hannifin Corporation, including all divisions and businesses thereof.
   - Services: means any services to be supplied by the Seller.
   - Software: means any software related to the Products, whether embedded or separately downloaded.
   - Terms: means the terms and conditions of this Offer of Sale or any newer version of the same as published by Seller electronically at www.parker.com/saleterms.

2. **Terms.** All sales of Products by Seller are contingent upon, and will be governed by, these Terms and, these Terms are incorporated into any Quote provided by Seller to any Buyer. Buyer's order for any Products whether communicated to Seller verbally, in writing, by electronic date interface or other electronic commerce, shall constitute acceptance of these Terms. Seller objects to any contrary or additional terms or conditions of Buyer. Reference in Seller's order acknowledgement to Buyer's purchase order or purchase order number shall in no way constitute an acceptance of any of Buyer's terms of purchase. No modification to these Terms will be binding on Seller unless agreed to in writing and signed by an authorized representative of Seller.

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4. **Shipment; Delivery; Title and Risk of Loss.** All delivery dates are approximate. Seller is not responsible for damages resulting from any delay. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the shipment carrier at Seller's facility. Unless otherwise agreed, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective indicated shipping date will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions.

5. **Warranty.** The warranty related to the Products is as follows: (i) Goods are warranted against defects in material or workmanship for a period of twelve (12) months from the date of delivery or 2,000 hours of use, whichever occurs first; (ii) Services shall be performed in accordance with generally accepted practices and using the degree of care and skill that is ordinarily exercised and customary in the field to which the Services pertain and are warranted for a period of six (6) months from the completion of the Services by Seller; and (iii) Software is only warranted to perform in accordance with applicable specifications provided by Seller to Buyer for ninety (90) days from the date of delivery or, when downloaded by a Buyer or end-user, from the date of the initial download. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer:
   DISCLAIMER OF WARRANTY: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, NONINFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. SELLER DOES NOT WARRANT THAT THE SOFTWARE IS ERROR-FREE OR FAULT-TOLERANT, OR THAT BUYER'S USE THEREOF WILL BE SECURE OR UNINTERRUPTED. BUYER AGREES AND ACKNOWLEDGES THAT UNLESS OTHERWISE AUTHORIZED IN WRITING BY SELLER THE SOFTWARE SHALL NOT BE USED IN CONNECTION WITH HAZARDOUS OR HIGH RISK ACTIVITIES OR ENVIRONMENTS. EXCEPT AS EXPRESSLY STATED HEREIN, ALL PRODUCTS ARE PROVIDED "AS IS".

6. **Claims; Commencement of Actions.** Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to the Seller within ten (10) days of delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the non-conformance is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.

7. **LIMITATION OF LIABILITY.** IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE THE NON-CONFORMING PRODUCT, RE-PERFORM THE SERVICES, OR REFUND THE PURCHASE PRICE PAID WITHIN A REASONABLE PERIOD OF TIME. **IN NO EVENT IS SELLER LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, NON-COMPLETION OF SERVICES, USE, LOSS OF USE OF, OR INABILITY TO USE THE PRODUCTS OR ANY PART THEREOF, LOSS OF DATA, IDENTITY, PRIVACY, OR CONFIDENTIALITY, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, WHETHER BASED IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCTS.**

8. **Loss to Buyer's Property.** Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which are or become Buyer's property, will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. **Special Tooling.** Special Tooling includes but is not limited to tooling, jigs, fixtures and associated manufacturing equipment acquired or necessary to manufacture Products. A tooling charge may be imposed for any Special Tooling. Such Special Tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in Special Tooling belonging to Seller that is utilized in the manufacture of the Products, even if such Special Tooling has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any Special Tooling or other property in its sole discretion at any time.

10. **Security Interest.** To secure payment of all sums due, Seller retains a security interest in all Products delivered to Buyer and, Buyer's acceptance of these Terms is deemed to be a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest.

11. **User Responsibility.** The Buyer through its own analysis and testing, is solely responsible for making the final selection of the Products and assuring that all performance, endurance, maintenance, safety and warning requirements of the application of the Products are met. The Buyer must analyze all aspects of the application and follow applicable industry standards, specifications, and other technical information provided with the Product. If Seller provides Product options based upon data or specifications provided by the Buyer, the Buyer is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products. In the event the Buyer is not the end-user, Buyer will ensure such end-user complies with this paragraph.

12. **Use of Products, Indemnity by Buyer.** Buyer shall comply with all instructions, guides and specifications provided by Seller with the Products. **Unauthorized Uses.** If Buyer uses or resells the Products for any uses prohibited in Seller's instructions, guides or specifications, or Buyer otherwise fails to comply with Seller's instructions, guides and specifications, Buyer acknowledges that any such use, resale, or non-compliance is at Buyer's sole risk. Buyer shall indemnify, defend, and hold Seller harmless from any losses, claims, liabilities, damages, lawsuits, judgments and costs (including attorney fees and defense costs), whether for personal injury, property damage, intellectual property infringement or any other claim,

brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, application, design, specification or other misuse of Products provided by Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, tooling, equipment, plans, drawings, designs or specifications or other information or things furnished by Buyer; (d) damage to the Products from an external cause, repair or attempted repair by anyone other than Seller, failure to follow instructions, guides and specifications provided by Seller, use with goods not provided by Seller, or opening, modifying, deconstructing or tampering with the Products for any reason; or (e) Buyer's failure to comply with these Terms. Seller shall not indemnify Buyer under any circumstance except as otherwise provided in these Terms.

13. **Cancellations and Changes.** Buyer may not cancel or modify any order for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller, at any time, may change Product features, specifications, designs and availability.

14. **Limitation on Assignment.** Buyer may not assign its rights or obligations without the prior written consent of Seller.

15. **Force Majeure.** Seller does not assume the risk and is not liable for delay or failure to perform any of Seller's obligations by reason of events or circumstances beyond its reasonable control ("Events of Force Majeure"). Events of Force Majeure shall include without limitation: accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

16. **Waiver and Severability.** Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of these Terms by legislation or other rule of law shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.

17. **Termination.** Seller may terminate any agreement governed by or arising from these Terms for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate, in writing, if Buyer: (a) breaches any provision of these Terms (b) appoints a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or one if filed by a third party (d) makes an assignment for the benefit of creditors; or (e) dissolves its business or liquidates all or a majority of its assets.

18. **Ownership of Software.** Seller retains ownership of all Software supplied to Buyer hereunder. In no event shall Buyer obtain any greater right in and to the Software than a right in the nature of a license limited to the use thereof and subject to compliance with any other terms provided with the Software.

19. **Indemnity for Infringement of Intellectual Property Rights.** Seller is not liable for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights ("Intellectual Property Rights") except as provided in this Section. Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on a third party claim that one or more of the Products sold hereunder infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by the Seller to the Buyer. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of any such claim, and Seller having sole control over the defense of the claim including all negotiations for settlement or compromise. If one or more Products sold hereunder is subject to such a claim, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Products, replace or modify the Products so as to render them non-infringing, or offer to accept return of the Products and refund the purchase price less a reasonable allowance for depreciation. Seller has no obligation or liability for any claim of infringement: (i) arising from information provided by Buyer; or (ii) directed to any Products provided hereunder for which the designs are specified in whole or part by Buyer; or (iii) resulting from the modification, combination or use in a system of any Products provided hereunder. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for such claims of infringement of Intellectual Property Rights.

20. **Governing Law.** These Terms and the sale and delivery of all Products are deemed to have taken place in, and shall be governed and construed in accordance with, the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to the sale and delivery of the Products.

21. **Entire Agreement.** These Terms, along with the terms set forth in the main body of any Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. In the event of a conflict between any term set forth in the main body of a Quote and these Terms, the terms set forth in the main body of the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. These Terms may not be modified unless in writing and signed by an authorized representative of Seller.

22. **Compliance with Laws.** Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards, including those of the United States of America, and the country or countries in which Buyer may operate, including without limitation the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act"), U.S. and E.U. export control and sanctions laws ("Export Laws"), the U.S. Food Drug and Cosmetic Act ("FDCA"), and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), each as currently amended. Buyer agrees to indemnify, defend, and hold harmless Seller from the consequences of any violation of such laws, regulations and standards by Buyer, its employees or agents. Buyer acknowledges that it is familiar with all applicable provisions of the FCPA, the Anti-Kickback Act, Export Laws, the FDCA and the FDA and certifies that Buyer will adhere to the requirements thereof and not take any action that would make Seller violate such requirements. Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly, to any governmental official, foreign political party or official thereof, candidate for foreign political office, or commercial entity or person, for any improper purpose, including the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller. Buyer further represents and agrees that it will not receive, use, service, transfer or ship any Product from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws.

INDUSTRIAL TECHNICAL SECTION

Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings, Connectors, Conductors, Valves and Related Accessories

Parker Publication No. 4400-B.1

WARNING: Failure or improper selection or improper use of hose, tubing, fittings, assemblies, valves, connectors, conductors or related accessories ("Products") can cause death, personal injury and property damage. Possible consequences of failure or improper selection or improper use of these Products include but are not limited to:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric powerlines.
- Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping Hose.
- Tube or pipe burst.
- Weld joint fracture.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup or other sources of electricity.
- Sparking or explosion while spraying paint or flammable liquids.
- Injuries resulting from inhalation, ingestion or exposure to fluids.

Before selecting or using any of these Products, it is important that you read and follow the instructions below. No product from any division in Parker Fluid Connectors Group is approved for in-flight aerospace applications. For hoses and fittings used in in-flight aerospace applications, please contact Parker Aerospace Group.

1.0 GENERAL INSTRUCTIONS

1.1 Scope: This safety guide provides instructions for selecting and using (including assembling, installing, and maintaining) these Products. For convenience, all rubber and/or thermoplastic products commonly called "hose" or "tubing" are called "Hose" in this safety guide. Metallic tube or pipe are called "tube". All assemblies made with Hose are called "Hose Assemblies". All assemblies made with Tube are called "Tube Assemblies". All products commonly called "fittings", "couplings" or "adapters" are called "Fittings". Valves are fluid system components that control the passage of fluid. Related accessories are ancillary devices that enhance or monitor performance including crimping, flaring, flanging, presetting, bending, cutting, deburring, swaging machines, sensors, tags, lockout handles, spring guards and associated tooling. This safety guide is a supplement to and is to be used with the specific Parker publications for the specific Hose, Fittings and Related Accessories that are being considered for use. Parker publications are available at www.parker.com. SAE J1273 (www.sae.org) and ISO 17165-2 (www.iso.org) also provide recommended practices for hydraulic Hose Assemblies, and should be followed.

1.2 Fail-Safe: Hose, Hose Assemblies, Tube, Tube Assemblies and Fittings can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of the Hose, Hose Assembly, Tube, Tube Assembly or Fitting will not endanger persons or property.

1.3 Distribution: Provide a copy of this safety guide to each person responsible for selecting or using Hose, Tube and Fitting products. Do not select or use Parker Hose, Tube or Fittings without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the Products.

1.4 User Responsibility: Due to the wide variety of operating conditions and applications for Hose, Tube and Fittings. Parker does not represent or warrant that any particular Hose, Tube or Fitting is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:

- Making the final selection of the Products.
- Assuring that the user's requirements are met, and that the application presents no health or safety hazards.
- Following the safety guide for Related Accessories and being trained to operate Related Accessories.
- Providing all appropriate health and safety warnings on the equipment on which the Products are used.
- Assuring compliance with all applicable government and industry standards.

1.5 Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the Products being considered or used, or call 1-800-CPARKER, or go to www.parker.com, for telephone numbers of the appropriate technical service department.

2.0 HOSE, TUBE AND FITTINGS SELECTION INSTRUCTIONS

2.1 Electrical Conductivity: Certain applications require that the Hose be nonconductive to prevent electrical current flow. Other applications require the Hose and the Fittings and the Hose/Fitting interface to be sufficiently conductive to drain off static electricity. Extreme care must be exercised when selecting Hose, Tube and Fittings for these or any other applications in which electrical conductivity or nonconductivity is a factor.

The electrical conductivity or nonconductivity of Hose, Tube and Fittings is dependent upon many factors and may be susceptible to change. These factors include but are not limited to the various materials used to make the Hose and the Fittings, Fitting finish (some Fitting finishes are electrically conductive while others are nonconductive), manufacturing methods (including moisture control), how the Fittings contact the Hose, age and amount of deterioration or damage or other changes, moisture content of the Hose at any particular time, and other factors. The following are considerations for electrically nonconductive and conductive Hose. For other applications consult the individual catalog pages and the appro- priate industry or regulatory standards for proper selection.

2.1.1 Electrically Nonconductive Hose: Certain applications require that the Hose be nonconductive to prevent electrical current flow or to maintain electrical isolation. For applications that require Hose to be electrically nonconductive, including but not limited to applications near high voltage electric lines, only special nonconductive Hose can be used. The manufacturer of the equipment in which the nonconductive Hose is to be used must be consulted to be certain that the Hose, Tube and Fittings that are selected are proper for the application. Do not use any Parker Hose or Fittings for any such application requiring nonconductive Hose, including but not limited to applications near high voltage electric lines or dense magnetic fields, unless (i) the application is expressly approved in the Parker technical publication for the product, (ii) the Hose is marked "nonconductive", and (iii) the manufacturer of the equipment on which the Hose is to be used specifically approves the particular Parker Hose, Tube and Fittings for such use.

2.1.2 Electrically Conductive Hose: Parker manufactures special Hose for certain applications that require electrically conductive Hose. Only hoses specifically designated for electrically conductive airless paint spraying should be used for airless paint spray applications. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in all airless paint spraying applications. Do not use any other Hose for airless paint spraying, even if electrically conductive. Use of any other Hose or failure to properly connect the Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. All hoses that convey fuels must be grounded. Parker manufactures special hoses for certain applications such as Compressed Natural Gas ("CNG") and Hydrogen (H2), where static electricity buildup may occur. Parker CNG and H2 Hose assemblies comply with globally recognized regulatory and test requirements for CNG and H2. These hoses are specifically printed with the approved gas service as well as important safety, application, and maintenance information on the hose assembly lay line, tagging, and packaging. This Hose must be properly connected to the appropriate Parker Fittings and properly grounded in order to dissipate dangerous static charge buildup, which occurs in, for example, high velocity CNG or H2 dispensing or transfer. Do not use any other Hose for CNG or H2 applications where static charge buildup may occur, even if electrically conductive. Use of other Hoses in CNG or H2 applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury, and property damage. Care must also be taken to protect against CNG or H2 permeation through the Hose wall. See section 2.6, Permeation, for more information. Parker CNG or H2 Hose is intended for dispenser and vehicle use within the specified temperature range. Parker CNG or H2 Hose should not be used in confined spaces or unventilated areas or areas exceeding the specified temperature range. Final assemblies must be tested for leaks. CNG or H2 Hose Assemblies should be tested on be a monthly basis for conductivity per the applicable regulatory specification.

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Parker manufactures special Hose for aerospace in-flight applications. Aerospace in-flight applications employing Hose to transmit fuel, lubricating fluids and hydraulic fluids require a special Hose with a conductive inner tube. This Hose for in-flight applications is available only from Parker's Stratoflex Products Division. Do not use any other Parker Hose for in-flight applications, even if electrically conductive. Use of other Hoses for in-flight applications or failure to properly connect or ground this Hose can cause a fire or an explosion resulting in death, personal injury and property damage. These Hose assemblies for in-flight applications must meet all applicable aerospace industry, aircraft engine and aircraft requirements.

2.2 **Pressure:** Hose, Tube and Fitting selection must be made so that the published maximum working pressure of the Hose, Tube and Fittings are equal to or greater than the maximum system pressure. The maximum working pressure of a Hose, or Tube Assembly is the lower of the respective published maximum working pressures of the Hose, Tube and the Fittings used. Surge pressures or peak transient pressures in the system must be below the published maximum working pressure for the Hose, Tube and Fitting. Surge pressures and peak pressures can usually only be determined by sensitive electrical instrumentation that measures and indicates pressures at millisecond intervals. Mechanical pressure gauges indicate only average pressures and cannot be used to determine surge pressures or peak tran- sient pressures. Published burst pressure ratings for Hose is for manufacturing test purposes only and is no indication that the Product can be used in applications at the burst pressure or otherwise above the published maximum recommended working pressure.

2.3 **Suction:** Hoses used for suction applications must be selected to ensure that the Hose will withstand the vacuum and pressure of the system. Improperly selected Hose may collapse in suction application.

2.4 **Temperature:** Be certain that fluid and ambient temperatures, both steady and transient, do not exceed the limitations of the Hose, Tube, Fitting and Seals. Temperatures below and above the recommended limit can degrade Hose, Tube, Fittings and Seals to a point where a failure may occur and release fluid. Tube and Fittings performances are normally degraded at elevated temperature. Material compatibility can also change at temperatures outside of the rated range. Properly insulate and protect the Hose Assembly when routing near hot objects (e.g. manifolds). Do not use any Hose in any application where failure of the Hose could result in the conveyed fluids (or vapors or mist from the conveyed fluids) contacting any open flame, molten metal, or other potential fire ignition source that could cause burning or explosion of the conveyed fluids or vapors.

2.5 **Fluid Compatibility:** Hose, and Tube Assembly selection must assure compatibility of the Hose tube, cover, reinforcement, Tube, Plating and Seals with the fluid media used. See the fluid compatibility chart in the Parker publication for the product being considered or used. This information is offered only as a guide. Actual service life can only be determined by the end user by testing under all extreme conditions and other analysis.

Hose, and Tube that is chemically compatible with a particular fluid must be assembled using Fittings and adapters containing likewise compatible seals. Flange or flare processes can change Tube material properties that may not be compatible with certain requirements such as NACE

2.6 **Permeation:** Permeation (that is, seepage through the Hose or Seal) will occur from inside the Hose or Fitting to outside when Hose or Fitting is used with gases, liquid and gas fuels, and refrigerants (including but not limited to such materials as helium, hydrogen, diesel fuel, gasoline, natural gas, CNG or LPG). This permeation may result in high concentrations of vapors which are potentially flammable, explosive, or toxic, and in loss of fluid. Dangerous explosions, fires, and other hazards can result when using the wrong Hose for such applications. The system designer must take into account the fact that this permeation will take place and must not use Hose or Fitting if this permeation could be hazardous. The system designer must take into account all legal, government, insurance, or any other special regulations which govern the use of fuels and refrigerants. Never use a Hose or Fitting even though the fluid compatibility is acceptable without considering the potential hazardous effects that can result from permeation through the Hose or Tube Assembly.

Permeation of moisture from outside the Hose or Fitting to inside the Hose or Fitting will also occur in Hose or Tube assemblies, regardless of internal pressure. If this moisture permeation would have detrimental effects (particularly, but not limited to refrigeration and air conditioning systems), incorporation of sufficient drying capacity in the system or other appropriate system safeguards should be selected and used. The sudden pressure re- lease of highly pressurized gas could also result in Explosive Decompression failure of permeated Seals and Hoses.

2.7 **Size:** Transmission of power by means of pressurized fluid varies with pressure and rate of flow. The size of the components must be adequate to keep pressure losses to a minimum and avoid damage due to heat generation or excessive fluid velocity.

2.8 **Routing:** Attention must be given to optimum routing to minimize inherent problems (kinking or flow restriction due to Hose collapse, twisting of the Hose, proximity to hot objects or heat sources). For additional routing recommendations see SAE J1273 and ISO 17165-2. Hose Assemblies have a finite life and should be installed in a manner that allows for ease of inspection and future replacement. Hose because of its relative short life, should not be used in residential and commercial buildings inside of inaccessible walls or floors, unless specifically allowed in the product literature. Always review all product literature for proper installation and routing instructions.

2.9 **Environment:** Care must be taken to ensure that the Hose, Tube and Fittings are either compatible with or protected from the environment (that is, surrounding conditions) to which they are exposed. Environmental conditions including but not limited to ultraviolet radiation, sunlight, heat, ozone, moisture, water, salt water, chemicals and air pollutants can cause degradation and premature failure.

2.10 **Mechanical Loads:** External forces can significantly reduce Hose, Tube and Fitting life or cause failure. Mechanical loads which must be considered include excessive flexing, twist, kinking, tensile or side loads, bend radius, and vibration. Use of swivel type Fittings or adapters may be required to ensure no twist is put into the Hose. Use of proper Hose or Tube clamps may also be required to reduce external mechanical loads. Unusual applications may require special testing prior to Hose selection.

2.11 **Physical Damage:** Care must be taken to protect Hose from wear, snagging, kinking, bending smaller that minimum bend radius and cutting, any of which can cause premature Hose failure. Any Hose that has been kinked or bent to a radius smaller than the minimum bend radius, and any Hose that has been cut or is cracked or is otherwise damaged should be removed and discarded. Fittings with damages such as scratches on sealing surfaces and deformation should be replaced.

2.12 **Proper End Fitting:** See instructions 3.2 through 3.5. These recommendations may be substantiated by testing to industry standards such as SAE or ISO for hydraulic applications, or MIL-A-5070, AS1339, or AS3517 for Hoses from Parker's Stratoflex Products Division for aerospace applications.

2.13 **Length:** When determining the proper Hose or Tube length of an assembly, be aware of Hose length change due to pressure, Tube length change due to thermal expansion or contraction, and Hose or Tube and machine tolerances and movement must be considered. When routing short hose assemblies, it is recommended that the minimum free hose length is always used. Consult the hose manufacturer for their minimum free hose length recommendations. Hose assemblies should be installed in such a way that any motion or flexing occurs within the same plane.

2.14 **Specifications and Standards:** When selecting Hose, Tube and Fittings, government, industry, and Parker specifications and recommendations must be reviewed and followed as applicable.

2.15 **Hose Cleanliness:** Hose and Tube components may vary in cleanliness levels. Care must be taken to ensure that the Hose and Tube Assembly selected has an adequate level of cleanliness for the application.

2.16 **Fire Resistant Fluids:** Some fire-resistant fluids that are to be conveyed by Hose or Tube require use of the same type of Hose or Tube as used with petroleum base fluids. Some such fluids require a special Hose, Tube, Fitting and Seal, while a few fluids will not work with any Hose at all. See instructions 2.5 and 1.5. The wrong Hose, Tube, Fitting or Seal may fail after a very short service. In addition, all liquids but pure water may burn fiercely under certain conditions, and even pure water leakage may be hazardous.

2.17 **Radiant Heat:** Hose and Seals can be heated to destruction without contact by such nearby items as hot manifolds or molten metal. The same heat source may then initiate a fire. This can occur despite the presence of cool air around the Hose or Seal. Performance of Tube and Fitting subjected to the heat could be degraded.

2.18 **Welding or Brazing:** When using a torch or arc welder in close proximity to hydraulic lines, the hydraulic lines should be removed or shielded with appropriate fire-resistant materials. Flame or weld spatter could burn through the Hose or Seal and possibly ignite escaping fluid resulting in a catastrophic failure. Heating of plated parts, includ- ing Hose Fittings and adapters, above 450°F (232°C) such as during welding, brazing or soldering may emit deadly gases. Any elastomer seal on fittings shall be removed prior to welding or brazing, any metallic surfaces shall be protected after brazing or welding when necessary. Welding and brazing filler material shall be compatible with the Tube and Fitting that are joined.

2.19 **Atomic Radiation:** Atomic radiation affects all materials used in Hose and Tube assemblies. Since the long-term effects may be unknown, do not expose Hose or Tube assemblies to atomic radiation. Nuclear applications may require special Tube and Fittings.

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2.20 Aerospace Applications: The only Hose, Tube and Fittings that may be used for in-flight aerospace applications are those available from Park- er's Stratoflex Products Division. Do not use any other Hose or Fittings for in-flight applications. Do not use any Hose or Fittings from Parker's Stratoflex Products Division with any other Hose or Fittings, unless expressly approved in writing by the engineering manager or chief engineer of Stratoflex Products Division and verified by the user's own testing and inspection to aerospace industry standards.

2.21 Unlocking Couplings: Ball locking couplings or other Fittings with quick disconnect ability can unintentionally disconnect if they are dragged over obstructions, or if the sleeve or other disconnect member, is bumped or moved enough to cause disconnect. Threaded Fittings should be considered where there is a potential for accidental uncoupling.

2.22 Regulated Materials: Hose, Tubing and Fittings are made from a variety of materials and must be selected to comply and warn in accordance with applicable regulations. The system designer and end user must appropriately address end of life disposal.

3.0 HOSE AND FITTINGS ASSEMBLY AND INSTALLATION INSTRUCTIONS

3.1 Component Inspection: Prior to assembly, a careful examination of the Hose and Fittings must be performed. All components must be checked for correct style, size, catalog number, and length. The Hose must be examined for cleanliness, obstructions, blisters, cover looseness, kinks, cracks, cuts or any other visible defects. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion or other imperfections. Do NOT use any component that displays any signs of nonconformance.

3.2 Hose and Fitting Assembly: Do not assemble a Parker Fitting on a Parker Hose that is not specifically listed by Parker for that Fitting, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Do not assemble a Parker Fitting on another manufacturer's Hose or a Parker Hose on another manufacturer's Fitting unless (i) the engineering manager or chief engineer of the appropriate Parker division approves the Assembly in writing or that combination is expressly approved in the appropriate Parker literature for the specific Parker product, and (ii) the user verifies the Assembly and the application through analysis and testing. For Parker Hose that does not specify a Parker Fitting, the user is solely responsible for the selection of the proper Fitting and Hose Assembly procedures. See instruction 1.4.

To prevent the possibility of problems such as leakage at the Fitting or system contamination, it is important to completely remove all debris from the cutting operation before installation of the Fittings. The Parker published instructions must be followed for assembling the Fittings on the Hose. These instructions are provided in the Parker Fitting catalog for the specific Parker Fitting being used, or by calling 1-800-CPARKER, or at www.parker.com.

3.3 Related Accessories: Do not crimp or swage any Parker Hose or Fitting with anything but the listed swage or crimp machine and dies in accordance with Parker published instructions. Do not crimp or swage another manufacturer's Fitting with a Parker crimp or swage die unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

3.4 Parts: Do not use any Parker Fitting part (including but not limited to socket, shell, nipple, or insert) except with the correct Parker mating parts, in accordance with Parker published instructions, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division.

3.5 Field Attachable/Permanent: Do not reuse any field attachable Hose Fitting that has blown or pulled off a Hose. Do not reuse a Parker permanent Hose Fitting (crimped or swaged) or any part thereof. Complete Hose Assemblies may only be reused after proper inspection under section 4.0. Do not assemble Fittings to any previously used hydraulic Hose that was in service, for use in a fluid power application.

3.6 Pre-Installation Inspection: Prior to installation, a careful examination of the Hose Assembly must be performed. Inspect the Hose Assembly for any damage or defects. DO NOT use any Hose Assembly that displays any signs of nonconformance.

3.7 Minimum Bend Radius: Installation of a Hose at less than the minimum listed bend radius may significantly reduce the Hose life. Particular attention must be given to preclude sharp bending at the Hose to Fitting juncture. Any bending during installation at less than the minimum bend radius must be avoided. If any Hose is kinked during installation, the Hose must be discarded.

3.8 Twist Angle and Orientation: Hose Assembly installation must be such that relative motion of machine components does not produce twisting.

3.9 Securement: In many applications, it may be necessary to restrain, protect, or guide the Hose to protect it from damage by unnecessary flexing, pressure surges, and contact with other mechanical components. Care must be taken to ensure such restraints do not introduce additional stress or wear points.

3.10 Proper Connection of Ports: Proper physical installation of the Hose Assembly requires a correctly installed port connection insuring that no twist or torque is transferred to the Hose when the Fittings are being tightened or otherwise during use.

3.11 External Damage: Proper installation is not complete without ensuring that tensile loads, side loads, kinking, flattening, potential abrasion, thread damage or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

3.12 System Checkout: All air entrapment must be eliminated, and the system pressurized to the maximum system pressure (at or below the Hose maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potentially hazardous areas while testing and using.

3.13 Routing: The Hose Assembly should be routed in such a manner so if a failure does occur, the escaping media will not cause personal injury or property damage. In addition, if fluid media comes in contact with hot surfaces, open flame or sparks, a fire or explosion may occur. See section 2.4.

3.14 Ground Fault Equipment Protection Devices (GFEPDs): WARNING! Fire and Shock Hazard. To minimize the danger of fire if the heating cable of a Multitube bundle is damaged or improperly installed, use a Ground Fault Equipment Protection Device. Electrical fault currents may be insufficient to trip a conventional circuit breaker.

For ground fault protection, the IEEE 515: (www.ansi.org) standard for heating cables recommends the use of GFEPDs with a nominal 30 milliampere trip level for "piping systems in classified areas, those areas requiring a high degree of maintenance, or which may be exposed to physical abuse or corrosive atmospheres".

4.0 TUBE AND FITTINGS ASSEMBLY AND INSTALLATION INSTRUCTIONS

4.1 Component Inspection: Prior to assembly, a careful examination of the Tube and Fittings must be performed. All components must be checked for correct style, size, material, seal, and length. Inspect the Fitting and sealing surfaces for burrs, nicks, corrosion, missing seal or other imperfections. Do NOT use any component that displays any signs of nonconformance.

4.2 Tube and Fitting Assembly: Do not assemble a Parker Fitting with a Tube that is not specifically listed by Parker for that Fitting, unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. The Tube must meet the requirements specified to the Fitting.

The Parker published instructions must be followed for assembling the Fittings to a Tube. These instructions are provided in the Parker Fitting catalog for the specific Parker Fitting being used, or by calling 1-800-CPARKER, or at www.parker.com.

4.3 Related Accessories: Do not preset or flange Parker Fitting components using another manufacturer's equipment or procedures unless authorized in writing by the engineering manager or chief engineer of the appropriate Parker division. Tube, Fitting component and tooling must be check for correct style, size and material. Operation and maintenance of Related Accessories must be in accor- dance with the operation manual for the designated Accessory.

4.4 Securement: In many applications, it may be necessary to restrain, protect, or guide the Tube to protect it from damage by unnecessary flexing, pressure surges, vibration, and contact with other mechanical components. Care must be taken to ensure such restraints do not introduce additional stress or wear points.

4.5 Proper Connection of Ports: Proper physical installation of the Tube Assembly requires a correctly installed port connection insuring that no torque is transferred to the Tube when the Fittings are being tightened or otherwise during use.

4.6 External Damage: Proper installation is not complete without ensuring that tensile loads, side loads, flattening, potential abrasion, thread damage or damage to sealing surfaces are corrected or eliminated. See instruction 2.10.

4.7 System Checkout: All air entrapment must be eliminated, and the system pressurized to the maximum system pressure (at or below the Tube Assembly maximum working pressure) and checked for proper function and freedom from leaks. Personnel must stay out of potentially hazardous areas while testing and using.

4.8 Routing: The Tube Assembly should be routed in such a manner so if a failure does occur, the escaping media will not cause personal injury or property damage. In addition, if fluid media comes in contact with hot surfaces, open flame or sparks, a fire or explosion may occur. See section 2.4.

Parker Safety Guide, Parker Publication No. 4400-B.1 *(continued)*

5.0 PRODUCT MAINTENANCE AND REPLACEMENT INSTRUCTIONS

5.1 Even with proper selection and installation, a Products (refer to section 1.1) life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a possible Product failure, and experience with any Product failures in the application or in similar applications should determine the frequency of the inspection and the replacement for the Products, so that Products are replaced before any failure occurs. Certain products require maintenance and inspection per industry requirements. Failure to adhere to these requirements may lead to premature failure. A maintenance program must be established and followed by the user and, at minimum, must include instructions 5.2 through 5.7

5.2 Visual Product Inspection: Any of the following conditions require immediate shut down and replacement of the Hose/Tube Assembly:

- Fitting slippage on Hose/Tubing;
- Damaged, cracked, cut or abraded tube or cover (any reinforcement exposed);
- Hard, stiff, heat cracked, or charred Hose;
- Cracked, damaged, or badly corroded Fittings;
- Leaks at Fitting or in Hose;
- Kinked, crushed, flattened or twisted Hose; and
- Blistered, soft, degraded, or loose cover.

5.3 Visual Inspection All Other: The following items must be tightened, repaired, corrected or replaced as required:

- Leaking port conditions;
- Excess dirt buildup;
- Worn clamps, guards or shields; and
- System fluid level, fluid type, and any air entrapment.

5.4 Functional Test: Operate the system at maximum operating pressure and check for possible malfunctions and leaks. Personnel must avoid potentially hazardous areas while testing and using the system. See section 2.2.

5.5 Replacement Intervals: Hose assemblies and elastomeric seals used on Hose Fittings and adapters will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Hose Assemblies and elastomeric seals should be inspected and replaced at specific replacement intervals, based on previous service life, government or industry recommendations, or when failures could result in unacceptable downtime, damage, or injury risk. See section 1.2. Hose and Fittings may be subjected to internal mechanical and/or chemical wear from the conveying fluid and may fail without warning. The user must determine the product life under such circumstances by testing. Also see section 2.5.

5.6 Hose Inspection and Failure: Hydraulic power is accomplished by utilizing high pressure fluids to transfer energy and do work. Hoses, Fittings and Hose Assemblies all contribute to this by transmitting fluids at high pressures. Fluids under pressure can be dangerous and potentially lethal and, therefore, extreme caution must be exercised when working with fluids under pressure and handling the Hoses transporting the fluids. From time to time, Hose Assemblies will fail if they are not replaced at proper time intervals. Usually, these failures are the result of some form of misapplication, abuse, wear or failure to perform proper maintenance. When Hoses fail, generally the high-pressure fluids inside escape in a stream which may or may not be visible to the user. Under no circumstances should the usattempt to locate the leak by "feeling" with their hands or any other part of their body. High pressure fluids can and will penetrate the skin and cause severe tissue damage and possibly loss of limb. Even seemingly minor hydraulic fluid injection injuries must be treated immediately by a physician with knowledge of the tissue damaging properties of hydraulic fluid.

If a Hose failure occurs, immediately shut down the equipment and leave the area until pressure has been completely released from the Hose Assembly. Simply shutting down the hydraulic pump may or may not eliminate the pressure in the Hose Assembly. Many times, check valves, etc., are employed in a system and can cause pressure to remain in a Hose Assembly even when pumps or equipment are not operating. Tiny holes in the Hose, commonly known as pinholes, can eject small, dangerously powerful but hard to see streams of hydraulic fluid. It may take several minutes or even hours for the pressure to be relieved so that the Hose Assembly may be examined safely.

Once the pressure has been reduced to zero, the Hose Assembly may be taken off the equipment and examined. It must always be replaced if a failure has occurred. Never attempt to patch or repair a Hose Assembly that has failed. Consult the nearest Parker distributor or the appropriate Parker division for Hose Assembly replacement information.

Never touch or examine a failed Hose Assembly unless it is obvious that the Hose no longer contains fluid under pressure. The high-pressure fluid is extremely dangerous and can cause serious and potentially fatal injury.

5.7 Elastomeric seals: Elastomeric seals will eventually age, harden, wear and deteriorate under thermal cycling and compression set. Elastomeric seals should be inspected and replaced.

5.8 Refrigerant gases: Special care should be taken when working with refrigeration systems. Sudden escape of refrigerant gases can cause blindness if the escaping gases contact the eye and can cause freezing or other severe injuries if it contacts any other portion of the body.

5.9 Compressed Natural Gas (CNG) and Hydrogen (H2): Parker CNG and H2 Hose Assemblies should be tested after installation and before use, and at least on a monthly basis per instructions provided on the Hose Assembly tag and including all applicable Standards and Codes for the application. The recommended procedure is to pressurize the Hose Assembly, check for leaks, visually inspect the Hose for damage, and perform an electrical resistance test.

Caution: Matches, candles, open flame or other sources of ignition shall not be used for Hose inspection leak detection. Leak check solutions should be rinsed off after use.

6.0 HOSE STORAGE

6.1 Age Control: Hose and Hose Assemblies must be stored in a manner that facilitates age control and first-in and first-out usage based on manufacturing date of the Hose and Hose Assemblies. Unless otherwise specified by the manufacturer or defined by local laws and regulations:

6.1.1 The shelf life of rubber hose in bulk form or hose made from two or more materials is 28 quarters (7 years) from the date of manufacture, with an extension of 12 quarters (3 years), if stored in accordance with ISO 2230.

6.1.2 The shelf life of thermoplastic and polytetrafluoroethylene hose is considered to be unlimited.

6.1.3 Hose assemblies that pass visual inspection and proof test shall not be stored for longer than 2 years.

6.1.4 For fittings with O-rings and Seals refer to the Parker O-Ring and Engineered Seals Division guidance on shelf life and age control.

6.1.5 Storage: Stored Hose, Fittings and Hose Assemblies must not be subjected to damage that could reduce their expected service life and must be placed in a cool, dark and dry area with the ends capped. Stored Hose, Fittings and Hose Assemblies must not be exposed to temperature extremes, ozone, oils, corrosive liquids or fumes, solvents, high humidity, rodents, insects, ultraviolet light, electromagnetic fields or radioactive materials.

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Safety Overview

It is important to employ safe practices in the use of industrial hose due to the number of potentially dangerous applications encountered and products conveyed, and the number of people that may be involved or exposed. Strictly observe these simple practices to help avoid accidents:

- **Training:** Train all operators thoroughly.
- **Evaluation:** Evaluate the application to determine the hose assembly performance requirements.
- **Selection:** Select the most appropriate hose and couplings for the application; ensure that the couplings are compatible with the media and hose, and securely attached to the hose.
- **Service:** Regularly inspect and maintain both the hose and couplings while in service.

Industrial Hose Assemblies

Coupling Compatibility and Maximum Working Pressure Rating

NOTE: This advisory does not apply to hose, hose couplings, hose assemblies and related accessories manufactured by any other Parker Fluid Connector Division worldwide. Products from other Parker divisions must be assembled and applied in strict compliance with their respective catalog instructions, Safety Guide precautions, and other statutory, industry and regulatory requirements.

Safety issues may develop due to the misunderstanding of the relationship between the maximum working pressure ratings of industrial hose assembly components, as well as how to obtain a maximum working pressure rating for a fabricated industrial hose assembly.

It is important to recognize that the pressure rating of any hose assembly is that of the lowest rated component. The three components of an industrial hose assembly that are subject to a maximum working pressure rating are the hose, the coupling/coupling end connection, and the hose-to-coupling attachment device. Many OEM- and distributor-fabricated assemblies incorporate the three components manufactured by different companies: These components are not designed and tested together as a compatible system. Confusion may occur because the hose is often boldly marked with its maximum rated working pressure while the coupling and/or attachment device are generally unmarked or difficult to read. Therefore, the pressure rating for the assembly may incorrectly be assumed to be the pressure rating of the hose.

Parker has tested, qualified and validated a group of specific hoses and specific couplings. When fabricated according to Parker-specified procedure and criteria, Parker certifies the assembly pressure rating to be equal to that of the hose. These hose, coupling and attachment specifications are available online in the CrimpSource® section of the Parker Hose Products Division website: www.parker.com/crimpsource.

⚠ WARNING! When using components or assembly procedures not prescribed in the CrimpSource® specifications, the working pressure of the hose assembly may be less than the working pressure of the hose. Couplings and attachment devices that fall into this category are inserts/stems and bands or clamps; inserts and crimped brass ferrules; screw-together reattachable couplings; internally expanded couplings; and swaged couplings. Coupling end connections may also fall into this category. For these items, contact the hose or coupling manufacturer to determine the maximum working pressure rating of a specific hose or coupling and end connection. To determine an attachment device rating, test and validate the entire assembly.

⚠ WARNING! When using components or assembly procedures not prescribed in the CrimpSource® specifications, it is the responsibility of the assembler to ensure the integrity and compatibility of the components and to inform the end user of the assembly's maximum working pressure rating by permanently marking the assembly with that rating.

Critical Applications

While many industrial hose applications are potentially dangerous, some are of particular concern because their danger may not be readily apparent. This is especially true for applications involving untrained or inexperienced operators.

Chemical Hose

A chemical hose system failure could cause the release of poisonous, corrosive, or flammable material resulting in property damage, serious bodily injury or death. All reputable manufacturers of chemical hose recommend specific hose constructions to handle various chemicals. Refer to the chemical guides in this catalog, or contact Parker for technical assistance before using or recommending a hose product. Refer to ARPM publication IP-11-7 "Manual for Maintenance, Testing, and Inspection of Chemical Hose."

Handling

- Use care to prevent mishandling. Crushing or kinking of the hose can cause severe damage to the reinforcement.
- Use proper hose suspension equipment when lifting or dragging a hose to ensure that the recommended curvature is not exceeded. Avoid sharp bends at the end fittings and at manifold connections.

Operation

- Use safety precautions such as wearing eye or face protection, rubber gloves, boots, and other types of protective clothing.
- Monitor pressures and temperatures to ensure that the hose is not exposed to conditions above specified limits.
- Do not allow chemicals to contact the exterior of the hose or allow hose to lie in a pool of chemicals since the hose cover may not have the same level of corrosion resistance as the tube. Corrosive materials that come into contact with the reinforcing material will cause reduced service life and premature hose failure.

Temperature

Do not use chemical hose at pressures or temperatures exceeding those as specified for the product. Many chemical resistance guides are based on temperatures of 70˚F (21˚C). Elevated temperatures can change the chemical resistance ratings. Many chemicals will become more aggressive as temperatures increase, reducing the ability of hose compounds to withstand them. Contact Parker for chemical compatibility data at elevated temperatures. If no data exists, end users are required to perform compatibility testing at the desired temperature.

Couplings

- At any operating temperature, couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- At operating temperatures of 125˚F and above, install only permanently attached couplings.
- Do not use internally expanded couplings with chemical hoses incorporating thermoplastic tubes. Refer to chemical hoses that incorporate a MXLPE tube.

Gasoline Dispenser Hose

Millions of consumers operate gasoline pumps every day, increasing the concern for the safe use of dispensing equipment, including the hose. Since gasoline dispenser hoses are subject to frequent abuse, hose selection must include consideration of the rigors of the application. For maximum service life, select only the highest quality, most thoroughly tested UL listed hose and establish a regular inspection and maintenance program. Refer to ARPM publication IP-11-8 “Manual for Maintenance, Testing, and Inspection of Petroleum Service Station Gasoline Dispensing Hose and Hose Assemblies.”

Note: To avoid fuel contamination do not use gasoline dispenser or farm pump hose to fuel aircraft.

LP Gas (Propane) Hose

Many accidents involving LP Gas occur due to selection of an incorrect hose for the application. LP Gas hose must be specially designed and compounded to handle the media, with a perforated cover to prevent gas build-up amidst the layers of the hose.

⚠ WARNING! Use ONLY LP Gas hose for LP Gas service. LP Gas possesses volatile characteristics that may produce fire or explosions causing property damage, serious bodily injury or death.

- Do not use LP Gas hose for anhydrous ammonia service. It may fail suddenly and quickly. Anhydrous ammonia hose and LPG hose are frequently used in proximity and may be accidentally switched.
- Use only Parker permanent crimp couplings when fabricating LP Gas hose assemblies. Refer to CrimpSource® at www.parker.com/crimpsource. Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- Do not use with couplings containing o-rings, which may dry out, crack and fail over time. Do not use with male swivel couplings or other couplings containing hidden o-rings.
- Do not use with screw-together reattachable couplings (except hose Series 7233).

LP Gas hose is designed to allow a limited amount of permeation of LP Gas through the wall of the hose when in service. The permeation is apparent when the hose is moist or in water, and bubbles may be perceived as leakage. However, a legitimate propane leak creates a frosting or icing on the surface of the hose or coupling. To verify the integrity of a hose in service, perform a hydrostatic test on the assembly; immediately remove from service any hose that fails the test. In the transfer of LP Gas, the allowable permeation rate is controlled by the Underwriters Laboratories Standard UL21 for LP Gas Hose.

Department of Transportation (DOT) and LP Gas Hose

LP Gas hose assemblies installed on on-road vehicles must meet DOT requirements. Parker factory assemblies 3/4" ID and larger undergo pressure testing as standard procedure (smaller sizes are tested per customer request), one of the fittings is etched with a unique DOT certification number, and a document incorporating the identical certification number accompanies each assembly. Metal DOT identification bands are also available/attached for an additional charge at customer request. Contact Parker.

NOTE: When using LP Gas hose in a mobile application such as delivery or service vehicles, the inspection procedures detailed in DOT regulation 49CFR 180.416 must be strictly followed.

Natural Gas and LP Gas Hose

The molecules of natural gas are small, enhancing their ability to permeate through standard rubber or PVC hose constructions. The permeation process is more rapid as the working pressure increases, and natural gas accumulates with potentially dangerous consequences. Series 7132, 7132XTC, 7170, 7231, 7232, and 7233 LP Gas hoses may be used for natural gas service to a 350 psi maximum, but ONLY under ALL of the following conditions:

- Use only in a well-ventilated environment: Outdoors, or indoors with significant continuous air movement.
- Do not use LP Gas hose to replace fixed/rigid pipe where that material is more appropriate due to reduced permeation, overall strength and durability. Use rigid pipe, non-permeable tubing or hose with barrier constructions to convey natural gas whenever possible.

Compressed Natural Gas (CNG) and LP Gas Hose

- Do not use LP gas hose for CNG engine applications in on-road vehicles, or for high pressure CNG dispenser/transfer applications (typically 2900 psi or greater). In other applications—where CNG is regulated to pressures within the rating of the hose—apply guidelines for natural gas applications stated above. Always review and adhere to all applicable government and industry regulations and standards prior to installing LP gas hose in a CNG or natural gas application.

Petroleum Transfer Hose

- Do not use for oil or fuel transfer service in or on open water. Hose damage or failure may result in spillage and environmental damage. Use hose specifically designed for this application.
- Do not immerse in fuel. The hose cover compound may not be of sufficient grade to resist attack by the fuel. Use hose specifically designed for this application.

Steam Hose

Water changes to hot water and phases of steam when subjected to heat and pressure. The greater the pressure, the higher the temperature required to achieve and maintain a steam phase. If steam escapes, dangerous quantities of heat may be released very suddenly. Refer to ARPM publication IP-11-1 "Guide for Use, Testing and Inspection of Steam Hose."

⚠ **WARNING! Use ONLY steam hose for steam service. Hot water, low pressure steam and high pressure steam may escape explosively and will scald skin, eyes and lungs, which may lead to severe bodily injury or death.**

- Many steam systems incorporate detergents or rust inhibitors which may attack steam hose. Prior to using a steam hose with detergents or rust inhibitors, refer to the chemical guides in this catalog, or contact Parker.
- Parker recommends using permanent crimp couplings when fabricating steam assemblies. Refer to CrimpSource® at www.parker.com/crimpsource. Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.
- Drain steam hose after each use to reduce the possibility of hose popcorning while in service.

The chart at the right represents the three forms of water when subjected to various combinations of heat and pressure. The red line represents the point at which hot water becomes saturated steam. The area below the red line is hot water; the area above the red line is superheated steam.

Welding Hose

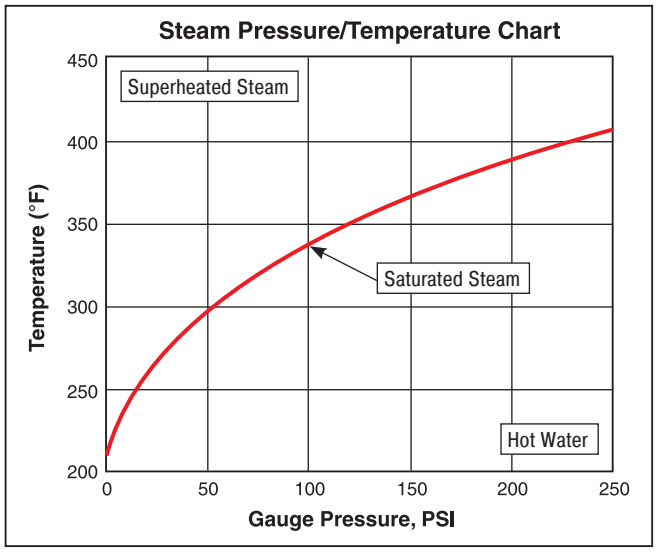
Many accidents involving welding hose occur due to selection of an incorrect hose for the application. Welding hose must be specially designed and compounded to handle the media, with rubber compounds able to handle fuel gas and oxygen. Due to the extreme volatility of gases, the varying compatibility of gases with the various grades of hose, and the rough environment of many welding applications, it is crucial to select the correct welding hose. Refer to ARPM publications IP-7, "Specifications for Rubber Welding Hose" and IP-11-5, "Guide for Use, Maintenance and Inspection of Welding

Critical Applications (Continued)

Hose." Also refer to the Compressed Gas Association publications E-1, "Standard for Rubber Welding Hose and Hose Connections for Gas Welding, Cutting and Allied Processes" and Safety Bulletin SB-11 "Use of Rubber Welding Hose."

WARNING! Welding gases possess volatile characteristics that may produce fire or explosions causing property damage, serious bodily injury or death. Use Grades R and RM ONLY with acetylene fuel gas; do not use with any other fuel gases.

- Replace all assemblies that show signs of abrading, abuse, age, damage or fatigue. Do not attempt to re-couple, repair or splice hose assemblies.
- Fabricate hose assemblies using only crimped-on ferrules at least one inch long to ensure coverage and support of the coupling stem inside the hose.
- Couplings attached with bands or clamps may reduce the working pressure of the hose assembly to less than the maximum rated working pressure of the hose. Refer to the NAHAD Industrial Hose Assembly Guidelines.



PVC / Thermoplastic Hose and Tubing

Thermoplastic polymer compounds are designed to resist deterioration when exposed to a wide range of commercial chemicals and environmental conditions. The resistance to attack is based on many factors, including temperature, pressure, chemical concentration, exposure to ultraviolet light, velocity of the media and duration of exposure/service (intermittent or constant). The user is solely responsible for making the final selection of the hose and tubing, and meeting all endurance, maintenance, performance, safety and warning requirements of the application.

NOTE: The rated maximum working pressures listed in this catalog for thermoplastic hose and tubing are based upon a pressure test temperature of 68°F (20°C) unless stated otherwise.

WARNING! As temperature increases or decreases, burst pressure, safe working pressure, coupling retention properties, and other safety characteristics of the hose or tubing can significantly decrease. Failure to consider how temperature and other conditions affect hose and tubing performance may cause property damage, serious bodily injury or death.

Guidelines for Cleaning and Sanitizing Food Hoses

The cleaning and sanitizing suggestions set forth below are guidelines only.

It is necessary that all applicable government regulations pertaining to the cleaning and sanitizing of the food hoses and food hose assemblies be followed and adhered to and which governmental regulations supersede the guideline contained herein.

The life of the hose is affected by the cleaning and sanitizing process due to the mechanical and chemical stresses which occur during the cleaning and sanitizing procedure. The service period of rubber hoses is dependent on their formulation and the environment of use which in turn is influenced by the product, process temperature, cleaning, bactericidal compounds, and time of exposure. Users should frequently monitor the physical condition of the rubber hose material product contact surfaces. Such observations are necessary to determinate the actual sanitary service period of rubber hoses. It is further recommended that the rubber hose be replaced before surface imperfections or sloughing occurs. Routine replacement schedules should be established and followed.

Food hose users should be guided by their own, if applicable, or specific industry cleaning and sanitizing procedures and standards. For example, the wine industry may have different standards than the dairy industry and any standards applicable to a specific industry supersede the guideline contained herein.

The cleaning and sanitizing of food hoses and hose assemblies is intended to remove any food particles or residues including detergents and/or disinfectants that may be the source of harmful bacteria microorganisms or other sources of contamination. The effectiveness of the guidelines contained herein are dependent upon the practices and care taken by the users.

CLEANING AND SANITIZING STEPS

1. FREQUENCY

The frequency of the cleaning and sanitizing cycle is to be conducted based on the users internal and/or industry guidelines. Some food and beverage media may require more frequent cleaning and sterilization than others. Be sure to follow all applicable industry requirements. It is advisable that all Parker hoses are to be cleaned and or sanitized prior to initial use.

2. WASHING

First step in the process is to rinse the hoses with hot potable water. It is advisable to flush the hose as soon as possible after transference of the media and to drain the hoses completely for the next step. A potable water flush should be followed by utilizing the appropriate detergent for the media that was conveyed in the hose. Proper disinfection media should be utilized where necessary. The cleaners and sanitizers must be chemically compatible with the hose liner along with the appropriate temperature limits to maintain the integrity of the hose.

3. CLEANING/DISINFECTING

Select the appropriate detergent and disinfectant for the media. For an application such as with in-place cleaning, chemical compatibility of the hose should be verified. Please adhere to the detergent and disinfectant guidelines and recommendations per the manufacturer's instructions of the cleaning product along with applicable regulations and industry requirements. Following the cleaning product manufacture guideline as to concentrations, soak time, and temperature will aid in proper use of the cleaning chemical. Also, be mindful of any waste and disposal regulations and guidelines required for these procedures.

After cleaning the hose with detergent it is advisable to rinse the hose with potable water to prepare the hose for sterilization by either with steam or with chemical solution.

Steam can be categorized as a disinfectant, where its effectiveness in eliminating bacteria and other contaminants varies according to the material/products being conveyed and the procedure employed by the users.

Chemical disinfectant such as caustic soda, nitric acid, per-acetic, phosphoric acid, chloroacetic acid or other acids suitable for disinfecting food hoses must be carefully selected to ensure optimal effectiveness while also assuring maximum safety and health. When selecting a disinfectant, it is necessary to pay strict attention to concentration levels, temperature, cycle time, etc. The type of product/material being conveyed is to be taken into consideration when selecting a specific disinfectant.

After completion of the disinfecting treatment with a chemical solution, the hose must be flushed with potable water for a sufficient amount of time to eliminate any chemical residue from the disinfecting treatment. Refer to all chemical manufacturer's instructions.

4. PROCESS CONTROLS

The result of the cleaning and sanitizing process must be regularly checked to ensure that all contamination and residuals have been eliminated. It is advisable that any non-conformance to cleaning/sanitization procedures or industry guidelines is addressed in a corrective action.

Guidelines Chart for Cleaning and Sanitizing Food Hoses

	Medium	Hose Tube	Concentration	Temperature
RINSING	Hot Water	NR /NBR / SILICONE EPDM / BIIR / UPE / PTFE	–	Max 90° C
PHYSICAL DISINFECTANT	Steam	NR / NBR	–	Max 110° C Max 10 min
		EPDM / BIIR / UPE / PTFE	–	Max 130° C Max 30 min
		SILICONE	–	Max 135° C Max 18 min
CHEMICAL DISINFECTANT	Acid (i.e. Nitric Acid)	NR /NBR / SILICONE	0.1%	Max 65° C
			2%	Max 25° C
		EPDM / BIIR / UPE / PTFE	0.1%	Max 85° C
			3%	Max 25° C
	Alkaline Solution (i.e. Caustic Soda)	NR /NBR / SILICONE	2%	Max 65° C
			4%	Max 25° C
		EPDM / BIIR / UPE / PTFE	2%	Max 85° C
			5%	Max 25° C
	Disinfectant (i.e. Peracetic Acid)	NR /NBR / SILICONE	1%	Max 25° C
		EPDM / BIIR / UPE / PTFE		Max 40° C

The life of the hose is affected by the cleaning and sanitizing process due to the mechanical and chemical stresses which occur during the cleaning and sanitizing procedure. The service life of rubber hoses is directly dependent on frequency and time of exposure to PHYSICAL and CHEMICAL disinfectants. Users should frequently monitor the physical condition of the rubber hose material product contact surfaces. Such observations are necessary to determinate the actual sanitary service period of rubber hoses.

The present tabulation is based on tests and on generally available sources, and believed to be reliable. However, must be used as a guidance only since it does not take in consideration all variable that may be encountered in actual use such as and not limited to duration of exposure and stability of the fluid and possible contamination.

Industry Publications

Listed below are the titles of publications issued by the Association for Rubber Products Manufacturers (ARPM). Information concerning the latest edition, prices, ordering procedure, etc., may be obtained by contacting them as shown below:

Association for Rubber Products Manufacturers (ARPM)
7231 Shadeland Station Way, Suite 285
Indianapolis, IN 46256

Phone: 317-863-4072
Fax: 317-913-2445
Web: www.arpminc.com

Publication Number	Title
IP-2	Hose Handbook
IP-7	Specifications for Rubber Welding Hose
IP-8	Specifications for Rubber Hose for Oil Suction and Discharge
IP-14	Specifications for Anhydrous Ammonia Hose
IP-11	Complete Set of Hose Technical Bulletins
IP-11-1	Technical Bulletin – Guide for Use, Testing and Inspection of Steam Hose
IP-11-2	Technical Bulletin – Manual for Use, Maintenance, Testing and Inspection of Anhydrous Ammonia Hose
IP-11-4	Technical Bulletin – Manual for Maintenance, Testing and Inspection of Oil Suction and Discharge Hose
IP-11-5	Technical Bulletin – Guide for Use, Maintenance and Inspection of Welding Hose
IP-11-7	Technical Bulletin – Manual for Maintenance, Testing and Inspection of Chemical Hose
IP-11-8	Technical Bulletin – Manual for Maintenance, Testing and Inspection of Petroleum Service Station Gasoline Dispensing Hose and Hose Assemblies

PARKER-HANNIFIN CORPORATION
OFFER OF SALE

1. Definitions. As used herein, the following terms have the meanings indicated.

Buyer:	means any customer receiving a Quote for Products.
Buyer's Property	means any tools, patterns, plans, drawings, designs, specifications materials, equipment, or information furnished by Buyer, or which are or become Buyer's property.
Confidential Information:	means any technical, commercial, or other proprietary information of Seller, including, without limitation, pricing, technical drawings or prints and/or part lists, which has been or will be disclosed, delivered, or made available, whether directly or indirectly, to Buyer.
Goods:	means any tangible part, system or component to be supplied by Seller.
Intellectual Property Rights:	means any patents, trademarks, copyrights, trade dress, trade secrets or similar rights.
Products:	means the Goods, Services and/or Software as described in a Quote.
Quote:	means the offer or proposal made by Seller to Buyer for the supply of Products.
Seller:	means Parker-Hannifin Corporation, including all divisions, subsidiaries and businesses selling Products under these Terms.
Seller's IP:	means patents, trademarks, copyrights, or other intellectual property rights relating to the Products, including without limitation, names, designs, images, drawings, models, software, templates, information, any improvements or creations or other intellectual property developed prior to or during the relationship contemplated herein.
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5. Warranty. The warranty for the Products is as follows:
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6. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to Seller within ten (10) days of delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the non-conformance is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.

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8. Confidential Information. Buyer acknowledges and agrees that Confidential Information has been and will be received in confidence and will remain the property of Seller. Buyer further agrees that it will not use Seller's Confidential Information for any purpose other than for the benefit of Seller and shall return all such Confidential Information to Seller within thirty (30) days upon request.

9. Loss to Buyer's Property. Buyer's Property will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products manufactured using Buyer's Property. Also, Seller shall not be responsible for any loss or damage to Buyer's Property while it is in Seller's possession or control.

10. Special Tooling. Seller may impose a tooling charge for any Special Tooling. Special Tooling shall be and remain Seller's property. In no event will Buyer acquire any interest in the Special Tooling, even if such Special Tooling has been specially converted or adapted for manufacture of Goods for Buyer and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any Special Tooling or other property owned by Seller in its sole determination at any time.

11. Security Interest. To secure payment of all sums due from Buyer, Seller retains a security interest in all Products delivered to Buyer and, Buyer's acceptance of these Terms is deemed to be a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect Seller's security interest.

12. User Responsibility. Buyer, through its own analysis and testing, is solely responsible for making the final selection of the Products and assuring that all performance, endurance, maintenance, safety and warning requirements of the application of the Products are met. Buyer must analyze all aspects of the application and follow applicable industry standards, specifications, and any technical information provided with the Quote or the Products, such as Seller's instructions, guides and specifications. If Seller provides options of or for Products based upon data or specifications provided by Buyer, Buyer is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products. In the event Buyer is not the end-user of the Products, Buyer will ensure such end-user complies with this paragraph.

13. Use of Products, Indemnity by Buyer. Buyer shall comply with all instructions, guides and specifications provided by Seller with the Quote or the Products. If Buyer uses or resells the Products in any way prohibited by Seller's instructions, guides or specifications, or Buyer otherwise fails to comply with Seller's instructions, guides and specifications, Buyer acknowledges that any such

use, resale, or non-compliance is at Buyer's sole risk. Further, Buyer shall indemnify, defend, and hold Seller harmless from any losses, claims, liabilities, damages, lawsuits, judgments and costs (including attorney fees and defense costs), whether for personal injury, property damage, intellectual property infringement or any other claim, arising out of or in connection with: (a) improper selection, design, specification, application, or any misuse of Products; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of Buyer's Property; (d) damage to the Products from an external cause, repair or attempted repair by anyone other than Seller, failure to follow instructions, guides and specifications provided by Seller, use with goods not provided by Seller, or opening, modifying, deconstructing, tampering with or repackaging the Products; or (e) Buyer's failure to comply with these Terms, including any legal or administrative proceedings, collection efforts, or other actions arising from or relating to such failure to comply. Seller shall not indemnify Buyer under any circumstance except as otherwise provided in these Terms.

14. Cancellations and Changes. Buyer may not cancel or modify, including but not limited to movement of delivery dates for the Products, any order for any reason except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage and any additional expense. Seller, at any time, may change features, specifications, designs and availability of Products.

15. Assignment. Buyer may not assign its rights or obligations without the prior written consent of Seller.

16. Force Majeure. Seller is not liable for delay or failure to perform any of its obligations by reason of any events or circumstances beyond its reasonable control. Such circumstances include without limitation: accidents, labor disputes or stoppages, government acts or orders, acts of nature, pandemics, epidemics, other widespread illness, or public health emergency, cyber related disruptions, cyber-attacks, ransomware sabotage, delays or failures in delivery from carriers or suppliers, shortages of materials, sudden increases in the price of raw material or components, shutdowns or slowdowns affecting the supply of raw materials or components, or the transportation thereof, oil shortages or oil price increases, energy crisis, energy or fuel interruption, war (whether declared or not) or the serious threat of same, riots, rebellions, acts of terrorism, embargoes, fire or any reason whether similar to the foregoing or otherwise. Seller will resume performance as soon as practicable after the event of force majeure has been removed. All delivery dates affected by an event of force majeure shall be tolled for the duration of such event of force majeure and rescheduled for mutually agreed dates as soon as practicable after the event of force majeure ceases to exist. The right to allocate capacity is in the Seller's sole discretion. An event of force majeure shall not include financial distress, insolvency, bankruptcy, or other similar conditions affecting one of the parties, affiliates and/or subcontractors. An event of force majeure in the meaning of these Terms means any circumstances beyond Seller's control that permanently or temporarily hinders performance, even where that circumstance was already foreseen. Buyer shall not be entitled to cancel any orders following its claim of an event of force majeure.

17. Waiver and Severability. Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such failure prejudice either party's right to enforce that provision in the future. Invalidation of any provision of these Terms shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.

18. Duration. Unless otherwise stated in the Quote, any agreement governed by or arising from these Terms shall: (a) be for an initial duration of one (1) year; and (b) shall automatically renew for successive one-year terms unless terminated by Buyer with at least 180-days written notice to Seller or if Seller terminates the agreement pursuant to Section 19 of these Terms.

19. Termination. Seller may, without liability to Buyer, terminate any agreement governed by or arising from these Terms for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate, in writing, if Buyer: (a) breaches any provision of these Terms, (b) becomes or is deemed insolvent, (c) appoints or has appointed a trustee, receiver or custodian for all or any part of Buyer's property,(d) files a petition for relief in bankruptcy on its own behalf, or one is filed against Buyer by a third party, (e) makes an assignment for the benefit of creditors; or (f) dissolves its business or liquidates all or a majority of its assets.

20. Ownership of Rights. Buyer agrees that (a) Seller (and/or its affiliates) owns or is the valid licensee of Seller's IP and (b) the furnishing of information, related documents or other materials by Seller to Buyer does not grant or transfer any ownership interest or license in or to Seller's IP to Buyer, unless expressly agreed in writing. Without limiting the foregoing, Seller retains ownership of all Software supplied to Buyer. In no event shall Buyer obtain any greater right in and to the Software than a right in a license limited to the use thereof and subject to compliance with any other terms provided with the Software. Buyer further agrees that it will not, directly or through intermediaries, reverse engineer, decompile, or disassemble any Software (including firmware) comprising or contained within a Product, except and only to the extent that such activity may be expressly permitted, either by applicable law or, in the case of open source software, the applicable open source license.

21. Indemnity for Infringement of Intellectual Property Rights. Seller is not liable for infringement of any Intellectual Property Rights except as provided in this Section. Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on a third-party claim that one or more of the Products infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by Seller to Buyer. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of any such claim, and Seller having sole control over the defense of the claim including all negotiations for settlement or compromise. If one or more Products is subject to such a claim, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Products, replace or modify the Products to render them non-infringing, or offer to accept return of the Products and refund the purchase price less a reasonable allowance for depreciation. Seller has no obligation or liability for any claim of infringement: (i) arising from information provided by Buyer (including Seller's use of Buyer's Property); or (ii) directed to any Products for which the designs are specified in whole or part by Buyer; or (iii) resulting from the modification, combination or use in a system of any Products. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for claims of infringement of Intellectual Property Rights.

22. Governing Law. These Terms, the terms of any Quote, and the sale and delivery of all Products are deemed to have taken place in, and shall be governed and construed in accordance with, the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to the sale and delivery of the Products.

23. Entire Agreement. These Terms, along with the terms set forth in the Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale and purchase. In the event of a conflict between any term set forth in the Quote and these Terms, the terms set forth in the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. No modification to these Terms will be binding on Seller unless agreed to in a writing that is signed by an authorized representative of Seller, excluding email correspondence, 'clickwrap' or other purported electronic assent to different or additional terms. Sections 2-25 of these Terms shall survive termination or cancellation of any agreement governed by or arising from these Terms.

24. No 'Wrap' Agreements/No Authority to Bind. Seller's clicking any buttons or any similar action, such as clicking "I Agree" or "Confirm," to utilize Buyer's software or webpage for the placement of orders, is NOT an agreement to Buyer's Terms and Conditions. NO EMPLOYEE, AGENT OR REPRESENTATIVE OF SELLER HAS THE AUTHORITY TO BIND SELLER BY THE ACT OF CLICKING ANY BUTTON OR SIMILAR ACTION ON BUYER'S WEBSITE OR PORTAL.

25. Compliance with Laws. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards, including those of the United States of America, and the country or countries in which Buyer may operate, including without limitation the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act"), U.S. and E.U. export control and sanctions laws ("Export Laws"), the U.S. Food Drug and Cosmetic Act ("FDCA"), and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), each as currently amended. Buyer agrees to indemnify, defend, and hold harmless Seller from the consequences of any violation of such laws, regulations and standards by Buyer, its employees or agents. Buyer represents that it is familiar with all applicable provisions of the FCPA, the Anti-Kickback Act, Export Laws, the FDCA and the FDA and certifies that Buyer will adhere to the requirements thereof and not take any action that would make Seller violate such requirements. Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly, to any governmental official, foreign political party or official thereof, candidate for foreign political office, or commercial entity or person, for any improper purpose, including the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller. Buyer further represents and agrees that it will not receive, use, service, transfer or ship any Products from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws. Buyer agrees to promptly and reliably provide Seller all requested information or documents, including end-user statements and other written assurances, concerning Buyer's ongoing compliance with Export Law.acceptance of these Terms is deemed to be a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect Seller's security interest.

Basic Hose Constructions

Construction Elements

A hose is generally composed of three elements, each with an important role in the overall performance of that hose. The three elements are:

The Tube must be compatible with and able to contain the media being conveyed. Many different materials are used for tube construction, depending upon the media the hose is designed to transmit.

The Reinforcement is the strength member of the hose. It enables the hose to withstand internal and external pressure and abuse. The reinforcement may be applied by several methods, and consists of synthetic yarns, wire or a combination of these. If suction or vacuum capability is a requirement, a helix wire may be part of the reinforcement.

The Cover protects the reinforcement from abuse or damage. The cover is usually a rubber compound selected for its resistance to the environment, although, in some cases the reinforcement will also act as the cover. Typical considerations in selecting a cover stock are the need to resist abrasion, ozone, weather and sunlight, chemical or oil spillage, etc.

Construction Methods

Several methods are used to manufacture Parker hose. Application factors such as size and pressure requirements determine the selection of any particular hose style. The following is a description of the various construction methods employed by Parker.

Non-Mandrel

Non-mandrel hose is constructed by passing long lengths of extruded tube material through a machine which adds the reinforcement in braided or spiraled layers. In this method, the hose is not built on a mandrel, therefore lengths are not restricted to the lengths of the mandrels.

Typical Size Range: 1-1/2" ID and smaller

Typical Uses: Air, water or general purpose service where operating conditions are not severe

Advantages: Economy and long lengths

Disadvantages: Requires wider ID and OD tolerance range than mandrel made hose, limited pressure capabilities

Rigid Mandrel

Hose produced by this method is supported on a rigid metal mandrel and is handled horizontally during production. While a rigid mandrel limits the hose length, it ensures good control of the inside diameter. It also offers sufficient support to the tube that either wire or textile reinforcement may be applied at high tensions, which is necessary in high pressure constructions. After the cover is applied, the hose may be wrapped with nylon tape for curing, giving the familiar "wrapped" finish to the cover.

Typical Size Range: 3/4" ID and larger

Typical Uses: Air, chemical and petroleum transfer, LPG, steam, water

Advantages: Close tolerances on inside diameter, high pressure ratings, good length stability

Disadvantages: Higher cost than non-mandrel; lengths restricted to length of mandrels

Flexible Mandrel

The flexible mandrel method combines the long-length advantage of non-mandrel hose with the close inside diameter tolerances and high pressure ratings of rigid mandrel hose. This is achieved by building the hose on a long length mandrel made of flexible plastic or rubber.

Typical Size Range: 1-1/2" ID and smaller

Typical Uses: High pressure, air, water, LPG

Advantages: Long lengths, close tolerances on I.D.,

(Continued)

Basic Hose Constructions *(Continued)*

higher pressure ratings than non-mandrel produced hose

Disadvantages: Higher cost than non-mandrel hose; not available in ID sizes as large as rigid mandrel hose

Wrapped Ply – Machine Built

The wrapped ply construction is the oldest method of making hose, applying all hose components (tube, reinforcement and cover) in spiral strips on a rigid mandrel. After a tube is in place on the mandrel, layers or plies of bias cut fabric reinforcement are wrapped around the tube. The cover is applied and the hose is wrapped in nylon tape prior to curing. This process is capable of producing a hose for suction service when a helix wire(s) is incorporated.

Size Range: 1/2" through 30" ID

Typical Uses: Air; suction and discharge service for chemicals, dry materials, oil and water, conduit

Advantages: Good inside diameter tolerances, many special constructions available without large minimum production runs, special ends available, wide size range

Disadvantages: Higher cost compared to non-mandrel and flex mandrel; pressure and length limitations

Wrapped Ply – Hand Built

Wrapped ply hose may be hand built when the diameter is too large for the building machine or where special built-in ends are desired. The plies are laid on by an operator rather than an automated machine process, allowing hand-forming of built-in ends.

Size Range: 1/2" through 60" ID

Typical Uses: Oil suction and discharge, sand suction, acid suction and discharge

Advantages: Special ends can be built into the hose; wide size range; special constructions available in small quantities

Disadvantages: Relatively expensive due to high labor content

Age Control of Hose (Shelf Life)

The Parker warranty takes precedence over guidelines established by other industry organizations regarding the recommended shelf life of industrial hose. To achieve maximum shelf life, employ proper storage and handling practices and techniques, such as:

- Storage in the original shipping container such as a box, coil, or reel. Hose stored on a reel or in a coil should have its plastic wrapping kept intact.
- Storage in temperatures of 100°F (38°C) or less.
- Avoidance of ozone (electrical discharges or fields), water, extreme humidity, corrosive chemicals and ultraviolet radiation (direct sunlight).
- Use on a first-in, first-out (FIFO) basis determined by the manufacturing date on the hose.

For further information pertaining to age control of hose, contact Parker or refer to the current ARPM Hose Handbook, IP-2.

Electrical Properties of Rubber Hose

Electrical Conductivity

Industrial hoses generally fall into three categories: conductive, nonconductive, or somewhere in-between. Because of its unique properties, it is possible for rubber to be nonconductive at low voltage and conductive at high voltage. When using a hose in an application that has electrical resistance requirements (low electrical resistance for conductive applications or high electrical resistance for nonconductive applications), always select a hose that is specifically designed to meet the specific need. Since conductivity or nonconductivity is not a consideration for many applications, electrical resistance ratings do not exist for many hoses.

Conductive Hose

Static electricity is generated by the flow of material (even some liquids) through a hose. As the material flows, molecules collide and generate friction, which creates minute amounts of electrical charge (excess electrons). The charge accumulates potential energy at the delivery end of the hose (coupling/nozzle). The amount of charge increases with material volume and linear velocity, coarseness of the material, and length of the hose. If not properly grounded, the accumulated charge (potential energy) will seek its own ground. The charge will be attracted to external materials in proximity (such as a steel storage container); if not properly grounded, the electrons may arc (jump) to the external material, igniting volatile materials in the hose, or in proximity to the hose.

Electrically conductive wires and conductive rubber components are used in hose to prevent static electricity build-up and discharge as a spark. Electrical engineers differ in opinion on the effects of static electricity and the means of dissipating it. In handling gasoline and other petroleum-based liquids, recognized national associations and companies have conflicting opinions on the need for conductive hoses. Until a consensus is reached among all associations, laboratories and users, and a standard practice is established, it is essential that the user determine the need for static bonded hose based on (a) the intended use of the hose, (b) instructions from the company's safety division, (c) the insurer, and (d) the laws of the localities and states in which the hose will be used.

Some types of hose include a helical or static wire(s). This wire can be used for electrical continuity provided that proper contact is made and maintained between it and the hose couplings.

Nonconductive Hose

Nonconductive hose constructions are those that resist the flow of electrical current. In some specific applications, especially around high voltage electrical lines, it is imperative for safety that the hose be nonconductive. Unless the hose is designed particularly to be nonconductive and is so branded, do not conclude that it is nonconductive. Many black rubber compounds are inherently and inadvertently conductive. Nonconductive hose is usually made to a qualifying standard that requires it to be tested to verify the desired electrical properties. The hose is frequently (but not necessarily) non-black in color and clearly branded to indicate it is designed for nonconductive applications.

NOTE 1: Parker industrial hose generally uses the non-conductivity standard originally developed by Alcoa Aluminum: A minimum resistance of one megaohm per inch at 1,000 volts D.C.

NOTE 2: SAE has a separate standard for nonconduc-tiv-ity for high pressure hydraulic applications. Part of the standard requires that nonconductive hose feature an orange cover.

NOTE 3: Nonconductive hoses contain little/no conductive rubber compounds, static wires, helical wires, or wire reinforcement. Therefore, a nonconductive hose would not be recommended for an application requiring an "anti-static/static dissipating/conductive" hose.

⚠ **WARNING! Unless a hose is described as, or specifically and clearly branded to be conducting or nonconducting, assume that the electrical properties are uncontrolled.**

Force to Bend / Minimum Bend Radius

The amount of force required to bend a hose and the minimum bend radius are important factors in hose design and selection. The minimum bend radius is defined as the radius to which the hose can be bent in service without damaging or appreciably shortening the life of the product, and is measured to the inside of the curvature of the bend. The bend radius for a given application must be equal to or greater than the rated minimum bend radius. Bending the hose to a smaller bend radius than minimum may kink the hose and result in premature failure.

Perhaps more important in determining flexibility, the force-to-bend is defined as the amount of force required to induce bending around a specified radius. The less force that is required, the easier the product is to maneuver in the field. Different hose constructions may require significantly different forces to attain the same minimum bend radius. Generally, the preferred hose is the more flexible hose, provided all other properties are essentially equivalent.

Oil and Fuel Resistance

Rubber compounds are available in different formulations, blends and grades. Compounds are selected by hose design engineers based on the intended application of the hose. For instance, a hose recommended for multipurpose applications that may include hydraulic or lubrication oil service generally contains a lower grade of tube compound. Conversely, a hose recommended for a more rigorous application, such as highly refined fuel service, contains a higher grade of compound, often within the same compound family.

Rubber hose is used to convey petroleum products both in the crude and refined stages. The aromatic content of refined gasoline is often adjusted to control the octane rating. The presence of aromatic hydrocarbons in this fuel generally has a greater effect on rubber components than do aliphatic hydrocarbons. Aromatic materials in contact with rubber tend to soften it and reduce its physical properties. For long-lasting service, the purchaser of fuel hose should inform the hose manufacturer of the aromatic content of the fuel to be handled so that the proper tube compound can be recommended for the specific application.

The effect of oil on rubber depends on a number of factors that include the type of rubber compound, the composition of the oil, the temperature and duration of exposure. Rubber compounds can be classified to their degree of oil resistance based on their physical properties after exposure to a standard test fluid. In this ARPM classification, the rubber samples are immersed in IRM 903 oil at 212°F (100°C) for seventy hours. (See

General Formula for Minimum Hose Length (given hose bend radius and degree of bend required)

$$\frac{\text{Angle of Bend}}{360^\circ} \times 2\ \pi\ r = \text{Minimum length of hose to make bend}$$

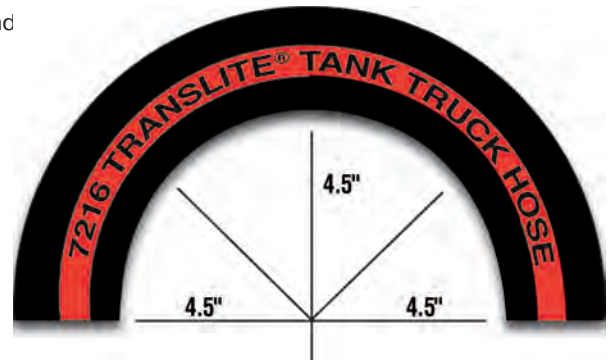
r = Given bend radius of hose.

Example: To make a 90° bend with 2" I.D. hose.
Given r = 4.5 inches.

$$\frac{90}{} \times 2 \times 3.14 \times 4.5$$

.25 x 2 x 3.14 x 4.5 = 7" (minimum length of hose to make bend without damage to hose)

The bend radius for a given application must be equal to or greater than the rated minimum bend radius. Bending the hose to a smaller bend radius than minimum may kink the hose and result in premature failure.



The minimum bend radius is measured to the inside of the curvature.

General Formula for Minimum Hose Length (allowing relief from couplings)

Overall Length (OAL) = (2 x Length of Coupling) + (2 x Hose OD) + (Angle/360) x 2 π r

ASTM Method D-471 for a detailed description of the oil and the testing procedure.) As a guide to users of hose in contact with oil, the oil resistance classes and a corresponding description are listed on the next page.

Physical Properties After Exposure to Oil

Class	Volume Change Maximum	Tensile Strength Retained
Class A (High Oil Resistance)	+25%	80%
Class B (Medium/High Oil Resistance)	+65%	50%
Class C (Medium Oil Resistance)	+100%	40%

The above ARPM guideline does not imply compatibility with all oil based fluids. There are many grades of rubber compounds that meet ARPM Class A oil resistance requirements. Some compound grades will be fine for multipurpose applications, while higher grades would be required for more rigorous applications.

Oil resistant hoses for multipurpose service tend to be more economical than hoses specifically designed and recommended for highly refined fuel service. These multipurpose hoses, even if they feature an ARPM Class A tube, are not necessarily recommended for use with highly refined fuels. Furthermore, many chemical resistance charts represent data developed from testing of a typical grade of compound used for that family of fluids. For example, "nitrile" may show compatibility with gasoline, but the nitrile that was tested is likely the nitrile used in gasoline dispenser hose, as opposed to the nitrile commonly used in multipurpose hose.

When selecting a hose for highly refined fuels such as aviation fuel, biodiesel, diesel, ethanol, gasoline or kerosene, be guided by the hose manufacturer's recommendation to use a hose designed and manufactured for that specific application and/or fluid. Contact Parker for further information.

Suction and Vacuum

Hose is constructed with high adhesion between the tube and the carcass to prevent tube separation. Most hose is used for pressure service; however, some applications require the hose to resist collapse in suction and vacuum service. Such hose is subjected to crushing forces because the atmospheric pressure outside the hose is greater than the internal pressure. The hose can collapse and restrict the flow unless the hose is constructed to resist these pressure differentials. The most common method of preventing hose collapse is to build a helical member(s) (wire or thermoplastic) into the hose body. The size and spacing of the helix depends on the size of the hose and the pressure differential. In applications approaching a perfect vacuum, most of the plies of reinforcement are applied over the helix.

Suction hose must be specifically designed for the service for which it is used. Each element—tube, reinforcement, size, spacing, and location of the helix—must be carefully considered. While suction hose is generally used to convey liquids, vacuum hose carries air under a partial vacuum. Vacuum hose is reinforced to resist collapse and maintain its shape under rough

Coupling Thread Compatibility

Industrial hose couplings have threads which are usually one of the various "pipe" threads. All pipe threads are commonly referred to by the generic name of Iron Pipe Thread or IPT. There are several different types of IPT threads and you must know specifically what they are to ensure compatibility with mating threads.

IPT Thread Compatibility Chart

Description	Seal	Thread (Female)	Compatible Threads (Male)
American Standard Tapered Pipe Thread	Thread Seal (with Sealing Compound)	NPT	NPT NPTF
American Standard Tapered Dryseal Pipe Thread	Thread Seal (Dryseal)*	NPTF	NPTF NPT
American Standard Straight Pipe Thread for mechanical joints (includes 2 female types, depending on sealing method, and one male type compatible with both females)	Washer or Mechanical Ground Joint	NPSM	NPSM NPT NPTF
American Standard Straight Pipe Threads for hose couplings and nipples	Washer	NPSH	NPSH NPT NPTF

*When NPTF Threads are used more than once, they require sealing compound after the first use.

In addition, there are various other thread types that may be found on industrial hose couplings. These types are generally not compatible with any other thread types:

Type	Description	Seal
GHT	Garden Hose Thread	Washer seal
API	American Petroleum Institute Thread	Thread seal
JIC (37˚)	Joint Industry Council	Mechanical seal
SAE (45˚)	Society of Automotive Engineers	Mechanical seal
NF	Welding Hose Threads-Left Hand and Right Hand	Mechanical seal
CHT	Chemical Hose Thread (for booster hoses)	Gasket seal

Media Compatibility

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Visit our hose overview chart (page 318) for a listing of industrial hoses along with industry standards.

Due to continual product improvements, Parker reserves the right to alter specifications without prior notice.

Chemical Guides Introduction

The Chemical Guides in this section are offered as a general indication of the compatibility of the various compounds incorporated in Parker hose with the chemicals, fluids and media listed. The basis for the ratings includes actual service experience, the advice of various polymer suppliers, and the considered opinion of our chemists. When in doubt, a sample of the compound should always be tested with the particular chemical and temperature it is to handle.

Some of the variables that affect the resistance of a compound to a chemical attack are:

1. **Temperature of the Media Transmitted:** Higher temperatures increase the affect of chemicals on compounds. The amount of increase depends upon the polymer and the chemical. A compound quite suitable at room temperature might fail very quickly at higher temperatures. Working pressures in this catalog are recommended in accordance with ARPM design safety factors at ambient temperatures. Do not operate outside hose temperature limits. Even within hose temperature limits, end fittings and hose size can affect performance at higher temperatures.

2. **Service Conditions:** A rubber compound usually swells when exposed to a chemical. Within a given percent of swell, a hose tube may function satisfactorily if the hose is in a static condition, but may fail quickly if the hose is subject to flexing.

3. **The Grade or Blend of the Rubber Compound:** Basic polymers are sometimes mixed or blended to enhance a particular property for a specific service. As an example, the nitrile used as the tube material for Parker aircraft fueling hose varies in its makeup from the nitrile used in the tube of Day-Flo® Special Purpose hose. Consequently, the reaction to a particular chemical may therefore be somewhat different. When in doubt, a sample of the compound should always be tested with the particular chemical it is going to handle.

Names and General Properties of Hose Materials

Refer to the guides on the following pages for specific applications.

Common Name	ASTM Designation D1418-64	Composition	General Properties	Primary Hose Elements
Butyl / Chlorobutyl	IIR	Isobutene-Isoprene	Very good weathering resistance, low permeability to air. Good physical properties. Poor resistance to petroleum based fluids.	Tube / Cover
Chlorinated Polyethylene (CPE)	CM	Chloropolyethylene	Good long term resistance to UV and weathering. Good oil and chemical resistance. Excellent flame resistance. Good low temperature impact resistance.	Tube
Cross Linked Polyethylene (XLPE)	XPE	Cross Linked Polyethylene	Excellent resistance to most solvents, oils and chemicals. Do not confuse with chemical properties of standard polyethylene.	Tube
EPDM	EPDM	Ethylene Propylene Diene	Good general purpose polymer. Excellent heat ozone, and and weather resistance. Not oil resistant.	Tube / Cover
Epichlorohydrin	ECO	Ethylene Oxide Chloromethyl	Excellent oil and ozone resistance. Fair flame resistance and low permeability to gases. Good low temperature properties.	Tube / Cover
Ethyl Vinyl Acetate (EVA)		Ethylene Vinyl Acetate	Good abrasion and chemical resistance. Lightweight.	Tube / Cover
FKM	FKM	Fluorocarbon Rubber	Excellent high temperature resistance, particularly in air or oil. Very good chemical resistance.	Tube / Cover
Fluorinated Ethylene Propylene / Polytetra-Flouroethylene	FEP / PTFE	Fluorinated Ethylene Propylene / Polytetra-Flouroethylene	Excellent chemical, solvent, and heat resistance, inert to most materials. Smooth anti-adhesive surface – easily cleaned.	Tube
Modified XLPE (MXLPE)		Proprietary	Excellent chemical resistance with good heat properties.	Tube
Natural Rubber	NR	Isoprene	Excellent physical properties, including abrasion resistance. Not oil resistant.	Tube
Neoprene	CR	Chloroprene	Excellent weathering resistance. Good oil resistance. Good physical properties.	Tube / Cover
Nitrile / Buna-N	NBR	Nitrile-Butadiene	Excellent oil resistance. Good physical properties.	Tube / Cover
Nylon		Nylon	Excellent chemical resistance. Good temperature resistance.	Tube
Poly Vinyl Chloride (PVC)		Poly Vinyl Chloride	Good abrasion, chemical and weathering resistance. Lightweight. Poor oil and temperature resistance.	Tube / Cover, Tubing
Poly Vinyl Chloride / Polyurethane (PVC/PU)		Poly Vinyl Chloride/ Polyurethane Blend	Good abrasion, chemical and weathering resistance.	Tube / Cover
Polyurethane (PU)	AU	Polyurethane	Good abrasion, chemical and weathering resistance.	Tube / Cover
SBR	SBR	Styrene-Butadiene	Good physical properties, including abrasion resistance. Not oil resistant. Poor weathering and ozone resistance.	Tube / Cover
TPV		Thermoplastic Vulcanizate	Excellent chemical and ozone resistance. Good flexibility. Lightweight.	Tube, Tubing
Ultra-High Molecular Weight Polyethylene (UHMWPE)	UHMW	Ultra-High Molecular Weight Polyethylene	Excellent chemical and heat resistance.	Tube

Refined Fuel / Hose Compatibility Table

LEGEND

A: Acceptable for use with the designated fuel, and can be interchanged/used with other "A" media in the same row.
D: Acceptable for use with the designated fuel, but only for DEDICATED service with that designated fuel.
Not interchangeable/for use with any other fuel—prior to or subsequnt to—use with the dedicated fuel.
X: Not acceptable for use with the designated fuel in any application.

NOTES: "A" or "D" ratings do not imply compliance with government or industry regulations or specifications in any application.

Series	Tube	Av Gas	Non-Regulated Gasoline Service	Ethanol			Diesel Fuel	Biodiesel	
				To E100	To E15	To E85		To B20	To B100
389	Nitrile	D	A	D	A	A	A	A	X
395	Nitrile	D	A	D	A	A	A	A	X
397	Nitrile	D	A	D	A	A	A	A	A
7094/7095	Nitrile	X	X	X	X	X	X	X	X
7102	Nitrile	D	A	D	A	A	A	D	X
7107	Nitrile	X	X	X	X	X	X	X	X
7107 (2" only)	Nitrile	D	A	D	A	A	A	D	X
7114	Nitrile	D	A	D	A	A	A	D	X
7124	Nitrile	D	D	D	A	A	A	D	X
7134/7187	Nitrile	X	X	X	X	X	X	X	X
7137	Nitrile	X	X	X	X	X	X	X	X
7165	Nylon	D	A	A	A	A	A	A	A
7174	Nitrile	D	D	D	A	A	A	D	X
7175	Nitrile	D	D	D	A	A	A	D	X
7204	Nitrile	D	A	A	A	A	A	A	X
7208E	Nitrile/SBR	X	X	X	X	X	X	X	X
7212	Nitrile	X	A	X	A	D	A	D	X
7213E	Nitrile/SBR	X	X	X	X	X	X	X	X
7216/7217	Nitrile	D	A	D	A	A	A	D	X
7216E	Nitrile	D	A	D	A	A	A	D	X
7219	Nitrile	D	A	A	A	A	A	A	X
7234	Chloroprene	X	X	D	X	X	X	X	X
7280	Nitrile	D	D	D	A	A	A	D	X
7282	Nitrile/THV Barrier	D	D	D	A	A	A	D	X
7301	Chloroprene	X	X	D	X	X	X	X	X
7311N/7311NXT	Nitrile	D	A	D	A	A	A	D	X
7331/7331XT	Nitrile	D	A	D	A	A	A	D	X
7396/7397	Nitrile	D	A	D	A	A	A	D	X
7705	Nitrile	A	A	A	A	A	A	A	A
7775	Nitrile	D	A	D	A	A	A	D	D
7776	Nitrile	D	A	D	A	A	A	D	D
7776CT	Nitrile	D	A	D	A	A	A	D	D
7777	Nitrile	D	A	D	A	A	A	D	D
SS107/SS107R	Nitrile	D	A	D	A	A	A	D	D
SS269	Nitrile/SBR	X	X	X	X	X	X	X	X
SWC325	Nitrile	D	A	D	A	A	A	D	D
SW387	Nitrile	D	A	D	A	A	A	D	D
SW569	Nitrile	D	D	D	D	D	D	D	D
SWC316/SWC316R	Nitrile	D	A	D	A	A	A	D	D
SWC609/SWC609R	Nitrile	D	A	D	A	A	A	D	D

Some biodiesel, diesel fuel and gasoline hoses must also meet industry or government standards for regulated applications, such as SAE engine fuel lines or UL gasoline dispenser service. The user is solely responsible for making the final determination if an industry or government (local, state or federal) standard or regulation applies to the application. Contact Parker for more information.

Hose and Chemical Table

Refer to *Names and General Properties of Hose Materials* table.

⚠WARNING! The following data is based on tests and believed to be reliable; however, the tabulation should be used as a guide ONLY, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc., that may be encountered in actual use. All critical applications should be tested. Refer to the Safety & Technical Information section of this catalog for safety, handling and use information.

*****Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

Thermoplastic hose and tubing achieve their optimum physical properties at room temperature, 68°F (20°C). As thermoplastic materials are exposed to increased ambient temperatures, they soften and their physical properties change. For hose and tubing, heat sharply reduces the available working pressure and coupling retention. In all cases, test the product in a controlled, secure and safe environment, and consider all operating conditions prior to use.

NOTES:
- Data for PVC/thermoplastic materials based on 68°F unless otherwise noted.
- Data for other materials based on 70°F unless otherwise noted.

Key: E = Excellent • G = Good • C = Conditional • Blank = No Data • X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Acetal		C	G	C	G		E	X	G	C	X					C		E	E
Acetaldehyde		X	E	X	E	G	E	X		X	X	E	X	X	X	X	G	G	E
Acetamide		G	E	G	E		E	G	E	C	E					X		E	E
Acetate Solvents		X	C	X	E	C	E	X	G	C	X		C	X	X	X		E	E
Acetic Acid, 10%	E	E	E	G	E	E	E	E		G	G	X	X	E	G	G	E	E	E
Acetic Acid, 30%		G	G	C	E	E	E	C	G	X	X			G	G	X		E	E
Acetic Acid, 50%	E	E	G	C	E	C	E	G		X	C	X	X	G	G	G	C	E	G
Acetic Acid, 80%						C							X	C	C				
Acetic Acid, Glacial	E	C	G	C	G	X	E	X		X	X	X	X	C	C	C	G	E	E
Acetic Acid, Vapors						G							X	G	G				
Acetic Anhydride	E	E	G	G	G	C	E	X		C	X	X	X	X	X	X	E	G	E
Acetic Ester		X	G	X	E		E	X	G	X	X					X		E	E
Acetic Ether		C	G	X	E		E	X	G	X	X					X		E	E
Acetic Oxide		E	G		G		E	X		X			G				G		E
Acetone	G	X	E	X	E	C	E	X		X	X	E	X	X	X	C	G	E	C
Acetone Cyanohydrin		C	E	G	E		E	X		C	X		X			E	E	G	E
Acetonitrile		G	E	E	E		E	X		G	X	E					X		
Acetophenone		X	G	X	E		E	X		X	X		X			X	G	X	X
Acetyl Acetone	G	X	E	X	E		E	X		X	X		X			X	G	E	E
Acetyl Chloride	E	X	X	X	C		E	G		X	X	X	X			X	G	G	G
Acetyl Oxide	E	E	G	G	G		E	X		C	X		X			X	E	E	E
Acetylene	G	C	E	E	E	X	E	E		G	E	E	G	C	C	C	C	E	E
Acetylene Dichloride		X	C	X	C		E	G		X	X	E						X	
Acetylene Tetrachloride		X	X	X	X		E	E		X	X		X			X	X		
Acrolein		G	E	C	E		E	X		G	C		X			C	C	X	E
Acrylic Acid	E	G	X	X	X		E	X		X	X		X			X			X
Acrylonitrile	E	C	X	X	E		E	X		C	X	E	X	C	C	C	G	C	C
Di(2Ethylhexyl) Adipate		X	E	X	G		E	C		X	X								
Adipic Acid		G	X	E	E	E	E	E		E	E		E	G	G	E	G		E
Air		E	E	E	E		E	E	E	E	E					E		E	E
Air, +300°F	G	G	G	G	G		E	E		X	G		G			X	E	X	
Alcohol, Aliphatic		E	E	E	E		G	C	E	E	E					G		E	E
Alcohol, Aromatic		X	X	C	X		E	E	G	C	C					X		E	E
Alk-Tri		X	X	X	X		E	E		X	X		X			X	X		E
Allyl Alcohol		E	E	E	E	E	E	G		E	E	C	X	X	X	G	G	E	E
Allyl Bromide		X	X	X	X		E	G		X	X					X		G	G
Allyl Chloride	G	X	X	X	X	C	E	G		X	G	G	X	X	X	G		E	G
Alum	E	E	E	E	E	E	E	E	E	E	E	G	G	E	E	G	E	E	E
Alum, Papermakers							E	E										G	
Aluminum Acetate	E	G	E	C	E		E	E	E	C	C		X			G	E	E	E
Aluminum Chloride	C	E	E	E	E	G	E	E	E	E	E	X	G	E	E	E		E	E

*****Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Aluminum Fluoride	X	E	E	E	E	G	E	E		G	E	G	C	G	G	E	E	E	E
Aluminum Formate		X	G	E	E		E	X		X	X		X			E		E	
Aluminum Hydroxide		E	E	E	E	G	E	E		E	E	G	G	E	E	G	E	E	
Aluminum Nitrate						E							C	E	E				
Aluminum Nitrate (AQ)	E	E	E	E	E		E	E		E	E		C			E	E	E	E
Aluminum Oxychloride						G								E	E				
Aluminum Phosphate		E	E	E	E		E	E	E	E	E					E		E	E
Aluminum Sulfate	E	E	E	E	E	E	E	E	E	E	E	E	G	E	E	E	E	E	E
Alums, NH3-CR-K	G	E	E	E	E		E	E		E	E	X	G			E	E	E	E
Amines, Mixed		X	G	G	G			X		G	X		X			C		E	
Amino Xylene	X	X	G	X	E		E	X		X	X		X			X	G		
Aminobenzene	G	X	G	X	G		E	E		X	X	C	X			X	G		
1-Aminobutane		C	X	X	C		E	X		X	C		X			X			
Aminodimethylbenzene	C	C	G	X	X		E	X		X	X					X			
Aminoethane		C	G	X	E		E	X		C	X		X			C			
2-Aminoethanol		G	E	G	G		E	X		G	X		C			X			
1-Aminopentane	C	X	G	E	E		E	X		G	C		C			G	C		
O-Aminotoluene	G																		
Ammonia (AQ)						E						E	X	C	C			E	C
Ammonia Anhydrous												G						E	E
Ammonia Gas												C						E	
Ammonia Gas, Dry						E							X	C	C				
Ammonia Liquid		E	E	E	E	E	E	E	E	G	G		X	X	X	G		E	E
Ammonia Water		G	G	G	E		E	G	E	G	C					G		E	E
Ammonium Carbonate		E	E	E	E	E	E	E	E	E	C	G	E	E	E	E		E	E
Ammonium Chloride	G	E	E	E	E	E	E	E	E	E	E		G	E	E	E	E	E	E
Ammonium Fluoride, 25%						G							C	X	X				
Ammonium Hydroxide	E	E	E	E	E		E	E		G	E	G	X				E	E	E
Ammonium Hydroxide, 28%						E							C	C	C				
Ammonium Metaphosphate		E	E	E	E	E	E	E	E	E	E		G	E	E	E		E	E
Ammonium Nitrate	G	E	E	E	E	E	E	E	E	E	E	G	G	E	E	E	E	E	E
Ammonium Persulfate		E	E	E	G	E	E	E	E	E	X		G	E	E	X		E	E
Ammonium Phosphate		E	E	E	E	E	E	E	E	E	E		G	G	G	E		E	E
Ammonium Phosphate, Dibasic	E	E	E	E	E		E	E		E	E	C				E	E	E	E
Ammonium Phosphate, Neutral						E							G	E	E				
Ammonium Sulfate	E	E	E	E	E	E	E	E	E	E	E	G	E	E	E	G		E	E
Ammonium Sulfide		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Ammonium Sulphite		E	E	E	E		E	E		E	E		X			E			E
Ammonium Thiocyanate		E	E	E	E	E	E	E	E	E	E		G	E	E	E		E	E
Ammonium Thiosulphate		E	E	E	E		E	E		E	E	E	X			E	E		E
Amyl Acetate	X	X	C	X	E	X	E	X		X	X	G	X	X	X	X	G	E	C
Amyl Acetone		X	G	X	G		E	X		X	X					X			E
Amyl Alcohol	E	E	E	E	E	G	E	E		E	E	E	X	C	C	G	E	E	E
Amyl Amine		C	G	C	C		E	X		C	C					G			
Amyl Borate		C	E	E	E		E	E	C	E	E					E		E	E
Amyl Bromide		X	X	X	C		E	G		X	X								
Amyl Chloride	C	X	X	X	X	X	E	E		X	X	E	C	X	X	X	X	X	X
Amyl Chloronapthalene		E	E	E	E		E	E	C	E	E					E		E	E
Amyl Ether		C	X	X	X		E			X	X								
Amyl Napthalene		E	E	E	E		E	E	C	E	E					E		E	E
Amyl Oleate		E	G	E	G		E	C	G	E	E					E		E	E
Amyl Phenol		E	E	E	E		E	E	C	E	E					E		E	E
Anethol	X	X	X	X	X		E	G		X	X	G				X		G	G

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Aniline	X	X	E	X	G	X	E	G		X	X	C	X	X	X	X	G	E	E
Aniline Chlorohydrate						X							X	X	X				
Aniline Dyes	X	G	G	C	G		E	G		G	X	X	X			G	G	E	E
Aniline Hydrochloride		X	G	X	G	X	E	G	E	G	G		X	X	X	C		E	E
Aniline Oil	G	X	G	X	C		E	C		X	X		X			X			
Animal Fats		C	C	C	G		E	E		X	E	E	C			X	C	E	E
Animal Grease		X	X	C	C		E	E	E	X	E					X		E	E
Animal Oils		X	C	X	C	C	E	E	E	X	E		G	C	C	X		E	E
Ansul Ether		X	X	X	C		E	X	G	X	X					X		E	E
Anthraquinone						E								E	E				
Anthraqunonesulfonic Acid						E							X	E	E				
Antifreeze		E	E	E	E		E	E	E	E	E					E		E	E
Antimony Chlorides		G	E	X	E		E	E			G	C	E						E
Antimony Pentachloride		X	X	X	X		E	E	E	X	G					X		G	G
Antimony Trichloride						E							E	E	E				
Apple Juice or Sauce														E					
Aqua Regia	G	X	X	X	C	X	E	E		X	X	X	X	C	C	X	X	G	X
Argon		X	G	G	E		E	E		X	E	E	E			E		E	E
Aromatic Hydrocarbons		X	X	X	X		E	E		X	X			X		X			
Arquad		E	E	E	E		E	E	E	E	E					E		E	E
Arsenic Acid	E	E	E	E	E		E	E		E	E	E	X			E	E	E	E
Arsenic Acid, 80%						G							X	E	E				
Arsenic Chloride		X	X	E	X		E	X		X	C					X		X	X
Arsenic Trichloride		X	X	E	X		E	X		X	E					X		X	X
Arylsulfonic Acid													X	C	C				
Asphalt	G	X	X	C	X	X	E	E		X	G	E	G	C	C	X	G	E	X
ASTM Fuel A	E	G	X	G	X		E	E		X	E	E	G	C	C	X	X	G	G
ASTM Fuel B	G	G	X	X	X		E	E		X	X	E	G	X	X	X	X	G	G
ASTM Fuel C	C	X	X	X	X		E	E		X	G	E	X	X	X	X	X	G	G
ASTM Oil #1		G	X	E	X		E	E		X	E	E	E	C	C	X	X	E	E
ASTM Oil #2		C	X	E	X		E	E		X	E					X			
ASTM Oil #3		C	X	G	X		E	E		X	E		X	C	C	X			
ASTM Oil #4		X	X	X	X			E		X	G		X			X		E	E
Automatic Transmission Fluid		C	X	G	X		E	E		X	E	G	G			X	X	E	E
Aviation Gasoline		X	X	X	X		E	E		X	E		X			X		E	E
Banana Oil	X	C	X	X	E		E	X		X	X	G	X			X	G	E	X
Barium Carbonate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Barium Chloride	G	E	E	E	E	E	E	E	E	E	E	G	E	E	E	E		E	E
Barium Hydroxide	G	E	E	E	E	E	E	E	E	E	E	G	E	E	E	E		E	E
Barium Sulfate		E	E	E	E	E	E	E		E	E		E	E	E	E		E	E
Barium Sulfide		E	E	E	E	E	E	E	E	E	E		E	E	E	G		E	E
Beer		E	E	G	E		E	E		E	E	E	G	E		E	E	E	X
Beet Sugar Liquors	G	E	E	G	E	E	E	E		E	E	G	X	E		E	E	E	E
Benzal Chloride			G				E				X	E						E	E
Benzaldehyde	C	X	G	X	E	C	E	X		X	X	E	X	X	X	X	X	E	E
Benzene	C	X	X	X	X	X	E	G		X	X	G	X	X	C	X	X	G	E
Benzene Carboxylic Acid	G	X	E	E	X		E	E		X	X		X			X	E		
Benzene Sulphonic Acid		G	X	G	X		E	E	E	X	X					X		E	E
Benzine		X	X	G	X		E	E		X	E	G	C			X	G		E
Benzine Solvent		C	X	X	X		E	E		X	E					X			
Benzoic Acid		X	X	G	X	G	E	E	G	X	X	E	X	G	G	X	E	E	E
Benzoic Aldehyde		X	G	X	E		E	X	E	X	X					X		E	E
Benzol	C	X	X	X	X	X	E	G		X	X	G	X	X	C	X	X	G	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Benzotrichloride		X	X	X	E		G	E		X	X					X		G	G
Benzyl Acetate		G	E	E	E		E	X		X	X		X			E		E	E
Benzyl Alcohol	E	G	G	G	G		E	E		X	X	C	X			X	X	E	E
Benzyl Chloride	X	X	X	X	X		E	E		X	X		X			X	X	E	E
Benzyl Ether		X	G	X	C		E	X		X	X		G			X			
Bismuth Carbonate						E							E	E	E				
Black Liquor						E								E	E				
Black Sulfate Liquor	C	G	G	G	G		E	E		G	G	C	X			G	E	E	
Blast Furnace Gas		C	C	E	C		E	E	E	C	C					C		E	E
Bleach Solutions		G	G	X	G		E	G	E	X	X	C	X			X		G	G
Bleach, 12.5% Active CL						G							C	G	G				
Borax Solution	C	E	E	E	E		E	E		E	E	G	E			E	E	E	E
Bordeaux Mixture		E	E	E	E		E	E	E	G	E					G		E	E
Boric Acid	X	E	E	E	E	E	E	E		E	E	G	E	E	E	E	E	E	E
Boron Trifluoride						E							E	E	E				
Brake Fluid DOT #3	E	G	E	C	E		E	X		X	X	E	X	X	X	E	G		
Brine	G	E	E	E	E	E	E	E		E	E	G	G	E	E	E	E	E	E
Bromacil					E														
Bromic Acid						G							X	E	E				
Bromine		C	X	X	X		E	E	G	X	X					X		X	G
Bromine Water		E	C	G	C	X	E	E		X	C		X	X	X	X		E	E
Bromine, Liquid						X							X	X	X				
Bromobenzene	X	X	X	X	X		E	E		X	X		X			X		C	C
1-Bromobutane		X	X				E	G		X	X								
Bromochloromethane	X	X	X	X	G		E	C		X	X								
Bromoethane		X	X	X	X		E	E		C	G		X			X			
3-Bromopropene		X	X	X			E	G		X	X								
Bromotoluene	X	X	X				E	G		X						X			X
Bugdioxane																			E
Bunker Oil		X	X	X	X		E	E		X	E		G			X		E	E
Butadiene		X	X	X	X	X	E	G		X	X		X	C	C	X		E	E
N-Butanal		C	G	C	G		E	X		X	X		C						
Butane		X	X	C	X	X	E	E		X	E	E	X	C	C	X		E	E
Butanoic Acid		C			G		E	G											
Butanol (Butyl Alcohol)	G	E	G	E	G		E	E		E	E	G	X			E	G	E	E
Butanol, Primary						G							C	X	X				
Butanol, Secondary						G							C	X	X				
Butanone	G	X	E		E		G				X	G	X				X	E	E
Butoxyethanol		X	E	X	E		E			X	C		E						
Butter		E	E	G	E			E		C	E			C		C			
Butyl Acetate	C	X	X	X	X	X	X	X		X	X	G	X	X	C	X		E	E
Butyl Acrylate		X	X	X	X		E	X		X	X							G	G
Butyl Alcohol (Butanol)	G	E	G	E	G	E	E	E		E	E	G	C	C	C	E	G	E	E
Butyl Aldehyde		C	G	C	G		E	X					C				G	E	E
Butyl Amine		C	C	X	C		E	X	E	G	C					C		E	E
N-Butylamine		X	X	X	C		E	X		X	X		X			X			
T-Butyl Amine		X			G														
Butyl Benzene		X	X	X	X			E		X	X					X		E	E
N-Butylbenzene		X					E	E		X	X								E
Butyl Benzyl Phthalate		X	E				E	C		X						X		E	E
Butyl Bromide		X	X	X	X			G		X	X					X		G	G
N-Butylbromide		X	X				E	G		X	X								G
Butyl Butyrate		X	C	X	G			C		X	X					X		G	G

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
N-Butylbutyrate		X	E	X	E		E	E		X	X					X			
N-Butylcarbinol	E	E	E	E	E		E	E		E	G	E	X			E	E		
Butyl Carbitol		C	E	C	E		E	G		X	C					X		E	G
Butyl Cellosolve		X	E	X	G		E	X		X	C			X	X	X	E	E	E
Butyl Chloride		X	C				E	E		X								C	G
Butyl Ether		X	X	X	X		E	X		X	X		G			X		E	E
Butyl Ether Acetaldehyde		X	G				E	X		X		X						E	E
Butyl Ethyl Acetaldehyde		X	C	X	X			X		X	X					X		E	E
Butyl Ethyl Ether		X	X				E			X	G							E	E
Butyl Oleate		X	G	X	G		E	E		X	X					X			
Butyl Phenol						X								C	C				
Butyl Phthalate		X	G		E		E	C		X						X			E
Butyl Stearate		X	X	X	X		E	E		X	G		G			X		E	E
Butylene		X	X	C	X		E	E		X	E	G	C	C	C	X			
Butyraldehyde		X	G	X	C		E	X	G	X	X		X			X		E	E
Butyric Acid		C	G	X	G		E	G		X	X		G			X		E	E
Butyric Acid, 20%						X							C	C	C				
Butyric Anhydride		G	C				E			C	C								E
Butyuraldehyde							E	X	G									E	E
Cadmium Acetate		E	E				E			X								E	E
Calcium Acetate		C	E	G			E	X		E	G		X			X		E	E
Calcium Aluminate		E	E				E	E		E	E								E
Calcium Bichromate		C	E				E												G
Calcium Bisulfate		E	G	E	G		E	E	E	C	E					C		E	E
Calcium Bisulfide				C	X		E	E			E	G	C			G			
Calcium Bisulfite		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Calcium Carbonate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Calcium Chlorate						E							G	E	E				
Calcium Chloride	G	E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Calcium Hydroxide	G	G	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Calcium Hypochlorite	G	E	E	C	E	G	E	E		X	X	X	X	E	E	X		C	C
Calcium Nitrate		E	E	E	E	E	E	E		E	E	E	X	E	E	E		E	E
Calcium Sulfate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Calcium Sulfide	X	E	E	E	E		E	E		X	E	E	E			X		E	E
Calcium Sulfite		E	E	E	E		E	E	E	E	E					E		E	E
Caliche Liquor		E	E	E	E		E	E	E	E	E					E		E	E
Cane Sugar Liquors		E	E	E	E	G	E	E	E	E	E			E		E		E	E
Caprilic Acid		G	C				E			C	C							E	E
Carbamide		E	G	G			E			E	G								
Carbitol		G	E	C	G		E	G		X	G	E	X			G		E	E
Carbitol Acetate		X	G	X	G			X		X	X					X		E	E
Carbolic Acid	G	X	G	X	X		E	E		X	X	X	X			X	X	E	E
Carbon Bisulfide		X	X	X	X	X	E	E		X	X			X	X	X			
Carbon Dioxide		G	G	G	G		E	G		G	E	E	E			G		E	E
Carbon Dioxide (AQ)						E							E	E	E				
Carbon Dioxide Gas, Wet						E							E	E	E				
Carbon Disulfide		X	X	X	X		E	X		X	X	X	X			X		E	C
Carbon Monoxide	G	E	E	E	E	G	E	E		C	E	E	G	E	E	G	E	E	E
Carbon Tetrachloride	C	X	X	X	X	X	E	E		X	C	X	X	X	C	X	X	G	E
Carbon Tetraflouride		X	X	X	X		E			X	C					X		C	C
Carbonic Acid	X	E	E	G	E	G	E	G		E	G	G	E	C	G	G	X		E
Casein						E							E	E	E				
Castor Oil	G	E	G	E	G	C	E	E		E	E	G	G	E	E	E	C	E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Catsup														E					
Caustic Potash		E	E	G	E	C	E	C	E	E	E		C	E	E	G		E	E
Caustic Soda			E	E	E	G	E	G				G	C	E	E		E		
Cellosolve		G	E	X	E	C	E	C	E	G	X		G	C	G	G		E	E
Cellosolve Acetate		X	G	X	G		E	X		X	X	G	X			X		E	E
Celluguard		X	E	E	E		E	E		E	E	G	E			E			
Cellulube		X	G	X	E			C		C	X					X		E	E
Cetylic Acid	G	C	G	G	G		E	E		E	E	C	E			G	E		
China Wood Oil	C	E	X	E	X		E	E		X	E	G	C			X			
Chloracetic Acid						X							X	E	E				
Chloral Hydrate						C							G	E	E				
Chlordane		C	X	C	X			E		X	G	G	C			X			
Chloric Acid, 20%													X	E	E				
Chlorinated Hydrocarbons		X	X	X	X	X	E	E		X	X		X	X	X	X			
Chlorinated Solvents	X	X	X	X	X		E	E		X	X	X	X			X		X	G
Chlorine Dioxide		C	X	X	X			E		X	X					X		G	G
Chlorine Gas		X	X	X	X		E	E		X	X					X			
Chlorine Gas, Dry						X							X	G	G				
Chlorine Gas, Moist						X							X	C	C				
Chlorine Water Solutions		X	X	X	X		E	C	E	X	X					X		G	E
Chlorine Water, 2%						G							C	G	G				
Chlorine Water, Saturated						E								C	C				
Chloroacetic Acid		G	G	X	G		E	G		X	X	X	X			X	X	E	E
Chloroacetone		X	X	C	E		E	X		X	X		X			X		E	E
Chlorobenzene						X	E	E	G				X	X	X			G	G
Chlorobenzene, Mono, Di, Tri		X	X	X	X		E	E	G	X	X	E	X			X	X	C	E
Chlorobutadiene		X	X	X	X			E		X	X					X		G	G
Chlorobutane		X	C				E	E		X	X		C					G	G
Chloroethylbenzene	X	X	X		X		E	E		X			G			X		E	E
Chloroform	X	X	X	X	X	X	E	G		X	X	X	X	X	X	X	X	E	C
Chloropentane		X	C				E	E		X						X		E	E
Chlorophenol		X	X	C	X		E	E	G	X	X					X		E	E
2-Chlorophenol	G	X	X	X	X		E	E		X	X	X	X			X	X		G
2-Chloropropane		X	X	X	X		E	E		X	X	X	X			X	X		E
Chloropropanone		X	C	X	C		E	X		X	X					X			
3-Chloropropene		X	C	X	X		E	G		X	G					E			
Chlorosulfonic Acid	X	X	X	X	X		E	X		X	X	X	X			X	X	X	X
Chlorothene		X	X	X	X		E	E	E	X	X					X		G	G
Chlorotoluene		X	X	X	X		E	E		X	X	E	X			X		G	G
Chlorox		G	G	G	G		E	E		X	G	X	X			X		E	G
Chlorsulfonic Acid						X							X	C	C				
Chrome Alum						E							E	E	E				
Chrome Plating Solutions		X	X	X	X					X	X					X			
Chromic Acid	X	X	G	X	X		E	E		X	X	X	X			X	X	X	E
Chromic Acid, 50%						C							X	C	C				
Chromium Trioxide	X	X	G	X	X		E	E		X	X	X	X			X	X		
Cider						E								E					
Cinnamene		X	X	X	X		E	G		X	X		C			X			
Citric Acid	X	E	E	E	E	E	E	C		E	E	G	E	E	E	E	E	E	E
Coal Oil		C	X	G	X		E	E		X	E	E	C				X	E	C
Coal Tar		X	X	C	X	X	E	E		X	G		C	X	X	X	X	E	E
Coal Tar Naphtha		X	X		X		E	E		X	X		X			X			E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Cobalt Chloride		E	E	E	E			E		E	E					E		E	E
Coconut Oil		C	G	C	G	C	E	E		X	E		C	G	E	X		E	E
Cod Liver Oil		G	E	G	E		E	E	E	X	E					X		E	E
Coke Oven Gas		X	X	X	X		C	E		X	X	C	X			X			E
Coolanol		G	X	G	X			E		X	E		X			X			
Copper Arsenate		E	E	E	E		E	E	E	E	E					E		E	E
Copper Chloride	X	G	E	G	E	E	E	E		G	E	X	G	E	E	E		E	E
Copper Cyanide		G	E	E	E	E	E	E		E	E	X	E	E	E	E		E	E
Copper Fluoride, 2%						E							E	E	E				
Copper Hydrate		G	E				E	C		C	G							E	
Copper Hydroxide		G	E				E	C		C	G					G			E
Copper Nitrate		E	E	E	E					E	E					E			
Copper Nitrate						E	E	E	E				E	E	E			E	E
Copper Sulfate	X	E	E	E	E	E	E	E		G	E	G	G	E	E	G		E	E
Copper Sulfide		E	E	E	E		E	E		C	E					E		E	E
Corn Oil		G	G	C	X		E	E		X	E	G	E	E		X	E	E	E
Cottonseed Oil	G	G	C	C	C	E	E	E		X	G	E	E	G	E	X		E	E
Creosote (Coal Tar)		X	X	X	X		E	E		X	G	X	C			X		E	E
Creosote (Wood)		C	X	G	X		E	E		X	E					X		E	
Cresols		X	X	X	X	X	E	E		X	X	X	X	X		X	X	E	G
Cresote						X								X	X				
Cresylic Acid		X	X	X	X		E	G		X	X	X	X			X		E	G
Cresylic Acid, 50%						X							X	X	C				
Crotonaldehyde		X	E	X	E		E	X		X	X		X			C		E	E
Crude Oil, Sour						X							E	C	C				
Crude Oil, Sweet						X							E	C	C				
Cumene		X	X	X	X		E	E		X	X		X			X		E	E
Cupric Carbonate		E	E	E			E	E		C	E							E	E
Cupric Chloride		E	E	G	E		E	E	E	C	E					C		E	E
Cupric Hydroxide		G	E				E	C		C	G								
Cupric Nitrate		E	E	E	E		E	E	E	G	E					C		E	E
Cupric Sulfate		E	E	E	E		E	E		G	E	G	X			E		E	E
Cutting Oil		G	X	G	X		E	E		X	E		E			X			
Cyclohexane		X	X	X	X	C	E	E		X	G	E	G	X	X	X	X	E	E
Cyclohexanol		G	X	G	X	E	E	E		X	G	E	C	X	X	X	X	E	E
Cyclohexanone		X	X	X	C	E	E	X		X	X	E	X	X	X	X	X	E	X
Cyclopentane		X	X	E	X		E	E		X	G							E	E
Cyclopentanol		X	X					G		X	G					X		E	E
Cyclopentanone		X	X				E	X		X	X								E
Cyclopentyl Alcohol		X	X					G		X	G					X		E	E
P-Cymene	X	X	X	X	X		E	E		X	X		X			X		E	E
DDT In Deionized Kerosene		X	X	C	X		E	E	G	X	E	E	G			X		E	E
Decahydronapthalene		X	X	X	X		E	E		X	X	E	X			X	X		
Decahydroxynapthalene	C																		
Decalin		X	X	X	X		E	E	X	X	X	G	X			X	X	X	E
Decane		X	X	X	X			A		X	G					X		E	E
1-Decanol		E	X	X	X		E	G		X	E		E			X			E
Decyl Alcohol		E	X	X			E	G		X	E							E	E
Decyl Aldehyde		X	C				E	X		X								E	E
Decyl Butyl Phthalate		X	E				E	C		X	X							E	E
Decyl Carbinol		E	E				E	G		E	E								
Developing Fluid, Photo		E	G	E	G		E	E		E	E	E				G		E	E
Dextrin						E							E	E	E				

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Dextron		X	X	G	X			E		X	E		G			X			
Dextrose						E							E	E					
Diacetone Alcohol		X	E	X	E		E	X		X	X		X			X		E	C
Diacetylmethane	G	X	E	X	E		E	X		X	X		X			X	E		
Diallylphthalate	G																		
Diammonium Phosphate	E	E	E	E	E		E	E		E	E	E				E			
Diamyl Napthalene		X	E				E	C		X									E
Diamyl Phenol		X	X				E	E		X	X					X			E
Diamylamine		C	E		E		E	X		G	G		X			X			
Diamylene		X	X	X			E	E		X	C	G							E
Diazo Salts						E								E	E				
Dibenzyl Ether		X	G	X	C		E	X		X	X		G			X		E	E
Dibenzylsebacate		X	G	X	G		E	G	E	C	X					X		E	E
Dibromobenzene		X	X				E	E		X								G	E
Dibromomethane		X	X	X	C		E	G		X	X						X		
Dibutyl Ether		X	X	X	X		E	X		X	X		X			X		E	E
Dibutyl Phthalate		X	C	X	E		E	C		X	X	E	X			X		E	E
Dibutyl Sebacate		X	G	X	G		E	E		X	X		X			X		E	E
Dibutylamine		X	X	X	X		E	X		X	X		X			X		E	
Dicalcium Phosphate		E	E				E	E		E	E								E
Dichloro Difluoro Methane	C	E	X	G	C		E	G		X	C	G	E			E	X		
Dichloro Ethylene		X	C	X	X		E	G				C	C				X		
Dichloroacetic Acid		X	C				E	X		G			C					E	E
Dichlorobenzene						X								X	X				
Ortho-Dichlorobenzene		X	X	X	X		E	E		X	X	E	X			X	X		
P-Dichlorobenzene		X	X	X	X		E	E	G	X	X					X		X	X
Para-Dichlorobenzene		X	X	X	X		E	E		X	X		X			X			G
Ortho-Dichlorobenzol		X	X	X	X		E	E		X	X	E	X			X	X		X
Dichlorobutane		X	X	X	C		E	E		X	G		X			X		E	G
Dichloroethane	X	X	C	X	X		E	G		X	X	C	X			X	X		E
Dichloroethyl Ether		X	X				E			X	X					X			E
Dichloroethylene		X	X	X	X		E	E	X	X	X					X		C	C
Dichlorohexane		X	X				E	E		X								E	E
Dichloroisopropyl Ether		X	C	X	C			C		X	X					X		E	E
Dichloromethane		X	X	G	C		E	G		X	X	C				X	X	E	E
Dichloropentane		X	X	X			E	E		X	X		X			X		E	E
Dichloropropane		X	X	X			E	E		X	X							E	E
Dichloropropene							E	E										E	E
Dichlorotoluene	X																		
Diesel Oil	E	C	X	C	X		E	E		X	E	E	C	C	C	X	X	E	G
Diethanolamine		C	E		E		E			G		G				X		E	
Diethyl Benzene		X	X	X	X		E	E	G	X	X					X		E	E
Diethyl Ether		X	X	X	X	X	E	X		X	X	E	E	X	X	X	E	G	
Diethyl Ketone		X	G	X	E		E	X		X									G
Diethyl Oxalate		X	X	X	X		E			X	X								E
Diethyl Phthalate		X	E				E	C		X								E	E
Diethyl Sebacate		C	G	X	G		E	G		X	X		X			X	E		
Diethyl Sulfate		X	G	E	E		E	X		X	X		X			E			
Diethyl Triamine		C	E				E			G	G								
Diethylamine		X	G	G	G					G	C					G			
Diethylamine		C	G	G	G		E	X		G	C		C			G		E	C
Diethylbenzene		X	X	X	X		E	E		X	X		X			X		E	E
Diethylene Dioxide		X	G	X	G		E	X	E	X	X					X		E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Diethylene Glycol		E	E	E	E	G	E	E		E	E	E	X	G	G	E		E	E
Diethylene Oxide			X		E		E												
Diethylene Triamine		C	E		E		E			G			X			X	E	E	
Diglycolic Acid						E								E	E				
Dihydroxy Diethyl Ether		E	E	E	E		E	E	E	E	E					E		E	E
Dihydroxy Succinic Acid		E	G	C	G		E	E		E	G		E						
Diisobutyl Ketone		X	G	X	E		E	X		X	X		X			X		E	E
Diisobutylene		X	X	C	X		E	E		X	E		X			X		E	E
Diisodectyl Phthalate		X	E		E		E	C		X						X		E	E
Diisodecyl Phthalate		X	E	X	E		E	C		X	X			X					
Diisooctyl Adipate		X	E	X	E		E	C		X	X					X		E	E
Diisooctyl Phthalate		X	E		G		E	C		X								E	E
Diisopropanolamine		C	E				E			G	G								
Diisopropyl Benzene		X	X	X	X		E	E	G	X	X					X		E	E
Diisopropyl Ether		C	X	X	X		E	X		X	G		G			X			E
Diisopropyl Ketone		X	E	X	E		E	X		X	X		X			X			E
Dilauryl Ether		C	D	X	X		E	C	G	X	C					X		E	E
Dimethyl Phenols (DMP)		X	X	X	X		E	X	E	X	X					X		C	C
Dimethyl Phthalate		X	G	X	G		E	G	E	X	X		X			X	G	E	E
Dimethyl Sulfate		X	G	X	X		E	X	X	X	X					X		E	X
Dimethyl Sulfide		X	C	X	X		E	C	E	X	X					X		G	G
Dimethylamine		X	G	X	X	X	E	X			X	E	X	X	X			E	X
Dimethylaniline	C	X	X	X	G		E	X			X		X			X		G	G
Dimethylbenzene	C	X	X	X	X		X	E			X	G	X			X	X	E	
Dimethylbutane	G																		
Dimethylcarbinol		E	E	E	G		E	E		E	G							E	
Dimethylformamide (DMF)		C	C	C	C		E	X	E	C	X					C		E	E
Dimethylketone	G	X	E	X	E		E	X			X	E	X			C	E	E	
Dinitrobenzene		X	C	C	C		E	E	G	X	X					X		E	E
Dinitrotoluene		X	X	X	X		E	G	E	X	X					X		E	E
Dioctyl Adipate (DOA)		X	E	X	G		E	C		X	X							E	
Dioctyl Phthalate (DOP)		X	G	X	G	G	E	G		X	X	E	X	X	X	X		E	E
Dioctyl Sebacate (DOS)		X	G	X	G		E	G	E	X	X					X		E	E
Dioxalanes		X	X	X	G		E	X	G	X	X		X			X		E	E
Dioxane		X	G	X	G		E	X		X	X	E	X			X		E	E
1,4 Dioxane		X	G	X	G		E	X		X	X	E	X			X	X		E
Dipentene		X	X	X	X		E	E		X	G		X			X			
Dipentylamine		C	E		E		E	X		G	G		X			X			
Diphenyl		X	X	X	X			A		X	X					X		E	E
Diphenyl Oxide		C	X	X	X			A		X	X					X		E	E
Di-P-Mentha-1,8-Diene		X	X	X	X		E	E		X	G		X			X			
Dipropyl Ketone		X	G	X	G		E	X	E	X	X					X		E	E
Dipropylamine		C	E				E			G	G								
Dipropylene Glycol		E	E				E	E		E	E								
Disodium Phosphate		E	E		E	E	E	E		E	E		E	E	E			E	E
Divinyl Benzene		X	X				E	E		X						X		E	E
Dodecyl Benzene		X	X	X	X		E	E	G	X	X					X		E	E
Dodecyl Toluene		X	X	X	X		E	E	G	X	X					X		E	E
Dowell Inhibitor	G																		
Dowfax 2A1 Solvent	E																		
Dowfax 2A1 TA	E																		

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Dowfax 6A1 Solvent	G																		
Dowfax 6A1 Ta	E																		
Dowfume W 40, 100%		C	D	C	C			C		X	X					X		G	G
Dow-Per		X	X	X	X		E	E	G	X	C					X		E	E
Dowtherm A & E	X	X	X	X	X		E	E	E	X	X	X	X			X		E	E
Dowtherm S.R.I.		E	E	E	E		E	E	E	E	E					E		E	E
Dry Cleaning Fluids		X	X	X	X		E	E			C	E	X			X		G	X
Ducgkirioebaane			X																
Duro AW16, 31					X		E				E	E							
Duro FR-HD					X		E				E	E							
Epichlorohydrin		C	C	X	G		E	X	G	X	X					X		G	G
Ethanoic Acid	E	C	G	G	E		E	X		X	C	X	X			G	C	E	E
Ethanolamine		X	G	G	G		E	X		G	G	E	C			X		E	E
Ethanol (Ethyl Alcohol)	G	E	E	E	E		E	C		E	E	G	X			E	E	E	E
2 (2Aminoethylamino) Ethanol		G	E							G	G								
2 (2Ethoxyethoxy) Ethanol		X	G	X	G		E	X		X	X	E	X			X	X		
2-Ethoxyethanol		X	G	X	G		E	X		X	X		X			X	X		
Ethers	G	X	X	X	C	X	E	X		X	X	E	X	X	C	X		C	
Bis (2-Cloroethyl) Ether		X	X				E			X	X					X			
Ethyl Acetate	G	X	G	X	E	C	E	X		X	X	E	X	X	C	X	E	E	G
2-Ethoxyethyl Acetate	X	X	G	X	G		E	X		X	X	G	X			X	X		
2 (2Ethoxyethoxy) Ethyl Acetate	X	X	G	X	X		E	X		X	X		X			X	X		
Ethyl Acetoacetate		X	G	X	G		E	X		C	X					C		E	E
Ethyl Acetone		X	G	X	G		E	X		X	X					X			
Ethyl Acrylate		X	G	X	G		E	X		X	X		X	X	X	X		E	G
Ethyl Alcohol (Ethanol)	G	E	E	E	E		E	E		E	E	G	X			E	E	E	E
Ethyl Alcohol, 1%-50%						G								G	G				
Ethyl Alcohol, 50%-98%						C								C	C				
Ethyl Aldehyde	E	C	G	X	E		E	C		X	X	G	X			E	E	E	E
Ethyl Aluminum Dichloride		X	X				E	G		X	X								G
Ethyl Benzene		X	X	X	X		E	E		X	X		X			X		E	X
Ethyl Benzoate		C	G	C	G			C		X	G					X		E	E
Ethyl Bromide		X	X	X	X		E	E		C	G		X			X			X
Ethyl Butanol		E	E	E	E		E	G	E	E	E							E	E
Ethyl Butyl Acetate		G	E				E	X		X	X							E	E
Ethyl Butyl Ketone		X	G				E	X		X	X								E
2-Ethyl (Butyraldehyde)		X	G				E	X		X	X								E
Ethyl Cellulose		G	G	G	G		E	X		G	G	C	G			G		E	E
Ethyl Chloride	X	C	E	X	E	X	E	E		C	E	E	C	X	X	G	X	G	C
Ethyl Dichloride		X	X	X	X		E	G	G	X	X		X			X		G	G
Ethyl Diisobutylthio-Carbamate										E						E		E	
Ethyl Ether	G	X	X	X	X	X	E	X		X	X	G	C	X	X	X		C	C
Ethyl Formate		G	G	G	G		E	E		X	X					X		E	E
Ethyl Hexanol		E	E	E	E		E	G	E	E	E					E		E	E
2-Ethyl-1-Hexanol		E	G	E	E		E	E		G	E		X			E	E		E
2-Ethylhexanoic Acid		G	C				E			C	C								
2-Ethylhexyl Acetate		G	E				E	X		X	X								
Ethyl Iodide		X	C	X	C		E	G		X	X							G	E
Ethyl Methyl Ketone		X	G	X	G		E	X	E	C	X					X		E	E
Ethyl Oxalate		X	X	X	C		E	E		C	X		E			X		E	E
Ethyl Phthalate		X	E				E			X	X							E	
Ethyl Propyl Ether		X	X	X	X			C	E	X	X					X		E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Ethyl Propyl Ketone		X	G	X	G		E	X	G	X	X					X		E	E
Ethyl Silicate		G	E	E	E		E	E		G	E		X			G		E	E
Ethyl Sulfate		X	G	D	G		E	X	E	X	X					X		E	E
Ethylamine		C	G	X	E		E	X		C	X	E	X			C		E	
Ethylene		C	X	G	X			E		X	E					X		E	E
Ethylene Bromide		X	X	X	X	X	E	E	G	X	X		X	E	X	X		G	G
Ethylene Chloride	X	C	C	X	X	X	E	G	G	X	X	G	X	X	X	X	X	C	X
Ethylene Chlorohydrin		C	G	G	G		E	E		C	X	E						E	E
Ethylene Diamine		G	E	E	E		E	X		G	G	E	X			G		E	E
Ethylene Dibromide		X	X	X	C		E	G		X	X		X			X		G	G
Ethylene G Monobutyl Ether		C	E	C	E		E	X		X	C		X			X			E
Ethylene G Monoethyl Acetate		X	E	X	E		E	E		C	C		X						
Ethylene G Monohexyl Ether																			E
Ethylene G Monomethyl Ether		G	E	E	G		E	X		X	C								E
Ethylene Glycol	G	E	E	E	E	E	E	E		E	E	E	G	E	E	E	E	E	E
Ethylene Oxide	X	X	X	X	C	X	E	X		X	X	E	X	X	X	X		E	G
Ethylene Trichloride		X	X	X	X		E	E	G	X	C					X		G	G
Fatty Acids		C	X	G	X	C	E	E		X	E	E	C	E	E	X	X	E	E
Ferric Bromide		E	E				E	E		E	E							E	
Ferric Chloride	X	E	E	E	E	E	E	E		E	E	X	E	E	E	E		E	E
Ferric Nitrate		E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Ferric Sulfate	X	E	E	E	E	E				E	E		E	E	E	E			
Ferrous Acetate		E	E				E	X		X	X								E
Ferrous Ammonium Sulfate		E	E	E	E			A		E	E					E		E	E
Ferrous Chloride		G	G	G	E	E	E	E		E	E	E	G	E	E			E	E
Ferrous Hydroxide		G	E	E	E		E	C	E	G	G					C		E	E
Ferrous Sulfate		E	E	E	E	E	E	E		E	E	G	E	E	E	E		E	E
Fish Oil		E	E	E	X		E	E		X	E					X		E	E
Fish Solubles						E							E	E	E				
Fluoboric Acid		E	G	E	E		E	E		E	E		X			E		C	C
Fluorine		X	X	X	E		G	E		X	X	X	X					C	X
Fluorine Gas, Dry						X							X	X	X				
Fluorine Gas, Wet						X							X	X	X				
Fluoroboric Acid						E							E	E	E				
Fluorosilic Acid		E	E	E	E	G	E	C	E	E	E		X	E	E	G	C	C	G
Foric Acid						E							X	E	E				
Formaldehyde	G	G	E	G	E		E	E			C	G	X			C	E	E	E
Formaldehyde (40% AQ)						E								X	G				
Formalin	G	G	E	G	E		E	E			C	G	X			C	E	E	E
Formamide		E	E	E	E		E	X	E	E	E					E		E	E
Formic Acid	X	E	E	E	E	E	E	X		C	C	X	X			E	E	E	E
Freon 11		E	X	G	X			E		G	E					X		E	E
Freon 12	C	E	C	E	C	G	E	G		C	E	E	E	C	G	E	X		E
Freon 13		E	E	E	E			E		E	E					E		E	E
Freon 21		X	X	G	X			X		X	X					X		E	E
Freon 22	C	E	X	E	E		E	C		C	X	G	X			E	X		
Freon 31		G	E	E	E			X		G	X					G		E	E
Freon 32		E	E	E	E			C		E	E					E		E	E
Freon 112		G	X	G	X			E		X	G					X		E	E
Freon 113		E	X	E	X		E	G		X	E	E	G			G	X	E	
Freon 114		E	E	E	E			G		E	E					E		E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Freon 114B2		E	X	E	X			G		X	G					C		E	E
Freon 115		E	E	E	E			G		E	E					E		E	E
Freon 13B1		E	E	E	E			E		E	E					E		E	E
Freon 142B		E	E	E	E			X		E	E					E		E	E
Freon 152A		C	E	E	E			X		E	E					E		E	E
Freon 218		E	E	E	E			E		E	E					E		E	E
Freon 502			E	E	E			G		E	G	E				E			
Freon BF		G	X	G	X			E		X	G					X		E	E
Freon C316		E	E	E	E			E		E	E					E		E	E
Freon C318		E	E	E	E			E		E	E					E		E	E
Freon MF		B	X	C	X			E		X	E					G		E	E
Freon TA		E	E	E	E			C		E	E					E		E	E
Freon TC		E	E	E	G			E		X	E					G		E	E
Freon TF		E	E	E	E			E		C	E					G		E	E
Freon TMC		G	G	G	G			E		G	G					C		E	E
Freon T-P35		E	E	E	E			E		E	E					E		E	E
Freon T-WD 602		G	E	G	G			E		C	E					G		E	E
Fructose						E							E	E					
Fruit Juices & Pulps						E							E	E					
Fuel Oil	E	C	X	G	X	X	E	E		X	E	G	C	G	G	X		E	E
Fumaric Acid		G	X	G	X		E	E	E	E	E					E		E	E
Furaldehyde	E	C	E	C	G		E	X		X	X	C	X			X	E		
Furan		X	X	X	X		E	C		X	X		X			X			
Furfural	E	C	E	C	G	X	E	X		X	X	E	X	X	X	X	E	E	E
Furfuryl Alcohol		X	G	X	G	X	E	C		X	X	G	X			X	E	E	C
Gallic Acid		G	G	G	G	E	E	E		E	G	G	X	E	E	G		E	C
Gallotannic Acid		E	G	E	E		E	E		E	E	E	E					E	E
Gas, 100 Octane		X	X	C	X					X	E					X			
Gas, Coal				E	E			E			X	E	G						
Gas, Coke Oven													G	G	G				
Gas, Natural, Dry						X							C	C	C				
Gas, Natural, Wet						X							C	C	C				
Gasoline	E	X	X	X	X	X	E	G	G	X	E	G	C	X	X	X		G	G
Gasoline, 100 Octane							E	E				G	C				X	C	
Gasoline, Sour						X							E	C	G				
Gelatin		E	E	E	E		E	E	E	E	E					E		E	E
Gelatine						E							E	E	E				
Glacial Acrylic Acid																			E
Gluconic Acid		G	C				E			X	C							E	
Glucose		E	E	G	E	E	E	E		E	E	E	C	E	E	E		E	E
Glue		E	G	E	E		E	C	E	G	E					G		E	E
Glycerine	E	E	E	E	E	E	E	E		E	E	E	C	E	E	E	X	E	E
Glycerol	E	E	E	E	E		E	E		E	E	E	C			E	X	E	E
Glycogenic Acid		G	C				E			X	C								
Glycolic Acid, 30%						E							X	E	E				
Glycols		E	E	E	E	E	E	E	E	E	E	E	X	E	E	E	G	E	E
Glyconic Acid		G	C				E			X	C							E	
Glycyl Alcohol	E	E	E	E	E		E	E		E	E	G	C			E	X		
Grease													E	E	E				
Grease, Petroleum Base	E	X	X	C	X		E	E		X	E	E	E			X	X	E	G
Green Liquor						E								E	E				
Green Sulfate Liquor		G	E	G	E		E	E		G	G	X	E			G		E	E
Halon 1211				E							E								

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Halowax Oil		X	X	X	X		E	E	E	X	X					X		E	E
Helium		E	E	E	E		E	E		E	E	E	E			E			
1-Hendaconal	E																		
Heptachlor In Petroleum Solvents		X	X	G	X		E	E	G	X	G					X		E	E
Heptachlor In Petroleum Solvents, Water Spray		X	X	G	X			E		X	G					X		E	E
Heptaldehyde		X	X				E	X		X	E								
Heptanal		X	X				E	X		X	E							E	E
Heptane	E	G	X	G	X	X	E	E		X	E	E	G	C	G	X		E	G
Heptane Carboxylic Acid		G	C				E			X	C								
Heptanoic Acid	E																		
Heptanone	C																		
Hexadecanoic Acid	G	C	G	G	G		E	E		E	E	C	E			G	E		
Hexadecanol						X													
Hexaldehyde		C	G	E	E		E	X		X	X		G			X		E	E
Hexane		E	X	E	X		E	E		X	E	E	G	C	C	X	E	E	G
Hexanol		G	C	G	G		E	E		E	G	E	X			E		E	E
Hexanol, Tertiary						C							G	C	C				
Hexene		G	X	G	X		E	E		X	G		G			X			E
Hexyl Alcohol		G	C	G	G		E	G		E	G	E	X			E		E	E
Hexyl Methyl Ketone		X	G				E	X		X	X								E
Hexylamine		C	G				E	X		C	C								
Hexylene		X	X	G	C		E	E		X	E					X		G	G
Hexylene Glycol		E	E	E	C		E	E		E	E								
Histowax	E																		
Hydraulic Fluid, Petroleum	E	G	X	G	X		E	E	E	X	E	E				X	X	E	E
Hydraulic Fluid, Phospate Ester Base		X	E	X	E		E	X	E	X	X					X		E	E
Hydraulic Fluid, Poly Alkylene Glycol Base		E	E	E	E			E		G	E					G		E	E
Hydrazine		G	E	G	E		E	E		X	G	X				G			E
Hydrobromic Acid	X	E	E	X	E		E	E		E	X	X	X			X		E	E
Hydrobromic Acid, 20%						G							X	E	E				
Hydrochloric Acid	X	C	E	C	C		E	C	E	C	C	X	C			X	E	E	E
Hydrochloric Acid, 10%						E							X	E	E				
Hydrochloric Acid, 48%						G							X	E	E				
Hydrocyanic Acid	X	E	G	G	E		E	E		G	G	G	X			G	E	E	E
Hydrofluoric Acid	X	E	G	C	C		E	G		C	C	X	X			C	X	E	E
Hydrofluoric Acid, 60%						E							X	G	G				
Hydrofluosilicic Acid	X	E	E	G	E		E	E		E	G	X	C	G	G	G		G	E
Hydrogen						C							C	C	C				
Hydrogen Bromide, Dry						E													
Hydrogen Chloride, Anhydrous	E											X						E	E
Hydrogen Chloride, Dry						E													
Hydrogen Cyanide						C							X	C	C				
Hydrogen Dioxide, 10%		G	C	X	G		E	E		G	C	X						E	E
Hydrogen Gas	C	E	E	E	E		E	E		G	E	E	E			G		E	E
Hydrogen Peroxide, 3%		C	C	C	E		E	E	E	X	C					X		E	E
Hydrogen Peroxide, 10%		E	G	X	G	G	E	E		G	C	C	G	E	E	C		G	G

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Hydrogen Peroxide, 30%	X	X	X	X	C	G	E	E	E	X	X	X	C	E	E	X		E	E
Hydrogen Peroxide, 50%						X							C	E	E				
Hydrogen Peroxide, 90%	X	X	X	X	C	X	E	G		X	X	X	C	X	X	X		G	G
Hydrogen Phosphide						E								E	E				
Hydrogen Sulfide (AQ)						E								E	E				
Hydrogen Sulfide, Dry						E								E	E				
Hydrogen Sulfide, Wet	X	E	E	E	E		E	C		X	C	C	C			X		E	E
Hydroquinone		C	G	X	G	E	E	X	E	G	X		E	E	E	G		E	E
Hydroxy Benzene		C	G	X	C		E	E		X	X		C						
2-Chloro-1-Hydroxy-Benzene	C																		
Hydroxyisobutyronitrile	E																		
Hydroxytoluene	E																		
Hypochlorous Acid		E	G	G	G	C		E		G	X		C	E	E	G		E	E
Hyvar XI					E														
Iminodi-2-Propanol	E																		
Iminodiethanol	E																		
Ink Oil, Linseed Oil Base		G	G	G	G		E	E	G	X	G					X		E	E
Inks						E													
Insulating Oil		X	X	G	X		E	E	E	X	E					X		E	E
Iodine		G	G	X	G		E	E		X	G	X	X			G		E	X
Iodine in Alcohol						X							X	X	X				
Iodine Pentafluoride		X	X	X	X		E	X		X	X		X			X		C	C
Iodoform				X	X					X	E					X			
IRM-902	E	X	X	G	X		E	E		X	E	E	G			X	X	E	E
IRM-903		G	X	C	X		E	E		X	E	E	E			X	X	E	E
Iron Acetate		X	E	X	G		E	X	E	X	X					X		E	E
Iron Hydroxide		G	E	E	G		E	C	E	C	G					C		E	E
Iron Salts		E	E	E	E		E	E	E	E	E					E		E	E
Iron Sulfate		E	E	E	E		E	E	E	E	E					E		E	E
Iron Sulfide		E	E	E	E		E	E	E	E	E					E		E	E
Isobutane	G	E	E	E	E		E	G		E	G					E		E	E
Isobutyl Acetate		X	E	X	G		E	X	G	X	X					X		E	E
Isobutyl Aldehyde		X	G	X	G		E	X		C	X					X		E	E
Isobutyl Chloride		X	X	X	X		E	G	G	X	X					X		G	G
Isobutyl Ether		X	X	X	X		E	X		X	X					X		E	E
Isobutylamine		C	E				E	X		C	X								
Isobutylbromide		X	X				E	G		X	X								
Isobutylcarbinol		E	E	E	E		E	E		E	E		C						
Isobutylene		X	X	X	X		E	E	G	X	E					X		E	E
Isocyanates								G			G	G	G					E	E
Isomyl Acetate		X	E	X	G		E	X	G	X	X					X		E	E
Isomyl Alcohol		E	E	E	E		E	E	E	E	E					E		G	E
Isomyl Bromide		X	X	X	X		E	G		X	X					X		G	G
Isomyl Butyrate		X	C	X	C		E	X	G	X	X					X		G	G
Isomyl Chloride		X	C	X	X		E	G	G	X	X					X		G	G
Isomyl Ether		X	X	X	X		E	X		X	X					X		E	E
Isomyl Phthalate		X	E	X	G		E	C		X	X					X		E	E
Isooctane	E	G	X	G	X		E	E		X	E	E	G	C	C	X	X	E	E
Isopentane		X	X	E	X		E	E	G	X	E					X		G	G
Isopropyl Acetate		X	G	X	G		E	X		X	X	G	X	X		X		E	E
Isopropyl Alcohol (Isopropanol)		E	E	G	E	E	E	E		E	E	E	X	E	E	E		E	E
Isopropyl Amine		C	E	E	G		E	X	G	G	G					C		E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Isopropyl Benzene		X	X	X	X		E	E	G	X	X					X		E	E
Isopropyl Chloride		X	X	X	X		E	G		X	X					X		G	G
Isopropyl Ether		C	X	X	X		E	X		X	G	E	G			X		E	E
Isopropyl Toluene		X	X	X	X		E	E		X	X					X		E	E
Jelly														E					
Jet Fuels (JP1-JP6)		X	X	X	X		E	E		X	E	C	C	X	X	X	X	E	E
JP-4 Oil		X	X	X	X		E	E		X	E	C	C			X	X		
Kerosene	G	X	X	C	X	X	E	E		X	E	E	G	X	C	X	X	E	E
Ketones	G	C	G	X	E	C	E	X		C	X	E	X	X	X	G	X	C	X
Kraft Liquor						G								E	E				
Lacquer Solvents	C	X	X	X	X	C	E	X		X	X	E	X	X	X	X		G	G
Lacquers		X	C	X	X		E	X	E	X	X					X		G	G
Lactic Acid, 28%						E							C	E	E				
Lactic Acid, Cold	X	E	E	E	E		E	E		E	E	E	G			E		E	E
Lactic Acid, Hot		C		X	X		E	E		X	X	X				X			
Lard		G	C	G	G	G	E	E		X	E	E	C	E	E	X	E	E	E
Lauric Acid													C	E	E				
Lauryl Alcohol		E	E	E	E		E	G	E	E	E					E		E	E
Lauryl Chloride						C							E	E	E				
Lauryl Sulfate						X								E	E				
Lavender Oil		X	X	X	X		E	E		X	G		X			X		G	G
Lead Acetate		C	E	G	E	E	E	E		E	G	G	C	E	E	X		E	E
Lead Arsenate						E								E	E				
Lead Nitrate		C	E	E	E	E	E	E		E	E			E	E	E		E	
Lead Sulfamate		G	E	E	E			E		G	G					G		E	E
Lead Sulfate		E	E	G	E		E	E		E	E	G						E	E
Lead Tetra-ethyl						E								E	E				
Lemon Juice														E					
Ligroin		X	X	E	X		E	E	G	X	E					X		E	E
Lime		E	E	E	E		E	E		E	E	E	G						E
Lime Bleach		G	E	G	E		E	E		E	E	G				E			
Lime Sulfur						G								E	E				
Lime Sulfur, Wet		G	E	E	C		E	E		C	E	G						E	E
Lime Water		E	E	E	E			E		X	C					X		E	
Limonene		X	X	X	X		E	E		X	X								
Lindol		G	E	X	E			E		X	X					X		E	E
Linoleic Acid		X	X	C	X		E	G		X	G		C	E	E	X		E	E
Linseed Oil	G	G	G	E	C	C	E	E		X	E	E	G	E	E	X		E	C
Liquid Soap		E	E	E	E		E	E	E	E	E					E		E	E
Liquors, Chemical						E								E	E				
Lubricating Oils, SAE	G	X	X	C	X	X	E	E		X	E	E	E	G	G	X	X	E	X
Lye		E	E	E	E			X		E	G					G		E	E
Lye Solutions	C	E	E	E	E		E	G		E	C	G	G			G	C	E	E
Magnesium Acetate		E	E	X	E		E	X		X	X		X			X			E
Magnesium Carbonate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Magnesium Chloride	G	E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Magnesium Hydrate		E	E	G	E		E	G		E	G		E					E	
Magnesium Hydroxide	G	E	E	E	E	E	E	E		E	E	E	C	E	E	G		E	E
Magnesium Nitrate		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Magnesium Sulfate	G	E	E	E	E	E	E	E		G	E	E	C	E	E	G		E	E
Magnesium Sulfite		E	E	E	E			E		G	E					G			
Malathion 50 In Aromatic Solvents		X	X	C	X		E	E	E	X	C					X		E	E
Maleic Acid		X	X	X	E		E	E		X	C	X	C			X		E	C
Maleic Acid (25% AQ)						E							C	E	E				

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to ***Names and General Properties of Hose Materials*** table.

Key: E = Excellent **G** = Good **C** = Conditional
Blank = No Data **X** = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Maleic Anhydride		X	X	X	X		E	E		X	X					X			E
Malic Acid		G	X	G	X	G	E	E		E	E	X	C	E	E	G		E	E
Manganese Sulfate		E	G	E	E		E	E		G	E		E					E	E
Manganese Sulfide		E	E	G	G		E	E	E	C	E					E		E	E
Manganese Sulfite		E	E	G	G		E	E	E	C	E					E		E	E
MAPP				E	G						E					G			
Mayonnaise														E					
Mercuric Chloride		E	E	C	E	G	E	E	E	G	G		G	G	G	G		E	E
Mercuric Cyanide						G								X	X				
Mercurous Nitrate						G							G	G	G				
Mercury	G	E	E	E	E	G	E	E		E	E	E	E	G	G	E		E	E
Mercury Vapors		E	E	C	E		E	E		C	E					E			
Mesityl Oxide		X	C	X	G		E	X		X	X		X			X		E	E
Methacrylic Acid		C	G	G	G			X		X	X					X		E	E
Methallyl Alcohol		E	E				E	G		E	E	X						E	E
Methallyl Chloride	C											E						G	X
Methane		G	X	G	X		E	E		X	E					X		E	E
Methanoic Acid	X	E	E	E	E		E	X		C	C	X	X			E	E		
Methanol (Methyl Alcohol)	G	E	E	E	E		E	C		E	E	G	X			E	E	E	C
Methoxy Ethanol	E																		
Methoxyethoxy Ethanol	E																		
Methyl Acetate		C	G	C	G	X	E	X		X	X	E	X	X	X	X		E	E
Methyl Acetoacetate		X	G	X	G		E	X		X	X		X						E
Methyl Acetone		X	G	X	E		E	X		C	X							E	
Methyl Acetylene Propadiene				E	G						E					G			
Methyl Acrylate		X	G	C	G		E	X	E	C	X					X		E	E
Methyl Allyl Alcohol		E	E				E	G		E	E								
Methyl Allyl Chloride	C	X	X					X		X						X			G
Methyl Amyl Carbinol		E	E				E	G		E	E								E
Methyl Benzene	C	X	X	X	X		E	E		X	X	E	X			X	X	E	X
Methyl Bromide		X	C	X	C	X	E	E		X	G	E	X	X	X	X	X	G	X
Methyl Butane		X	X	X	X		E	E			E		G						
1-Bromo-3 Methyl Butane		X	X	X	X		E	G		X	X								
1-Chloro-3-Methyl Butane		X	C	X	X		E	E		X	X	E							
Methyl Butanol	E	E	E	E	E		E	E		E	E	E	X			G	E	G	E
Methyl-2-Butanol	E	E	E					F		E						E			E
Methyl-2-Butanone	X	X	G	X	C		E	X		X	X	E	X			X			E
Methyl Butyl Ketone		X	E	X	E		E	X		X	X	E	X			X		E	
Methyl Carbitol		E	E				E			X	C								E
Methyl Cellosolve		C	G	G	G		E	X		X	C	E	X			X		E	E
Methyl Chloride	C	X	X	X	X	X	E	E		X	X	C	X	X	X	X	X	E	X
Methyl Cyanide		G	E	E	E		E	X		G	C	E							
Methyl Cyclohexane		X	X	X	X		E	G		X	X					X		G	G
Methyl Ethyl Ketone (MEK)	G	X	E	X	E	C	E	X		X	X	G	X	X	X	X	C	X	G
Methyl Formate		C	G	G	G		E	C	E	C	X					C		G	G
Methyl Hexanol		E	E				E	G		E	E							E	E
Methyl-2-Hexanone	C	X	G					X		X						X			E
Methyl Isoamyl Ketone	C					C								X	X				
Methyl-4-Isopropyl Benzene	C																		
Methyl Methacrylate		X	C	X	X		E	X		X	X	C	X			X	C	G	G
Methyl Normal Amyl Ketone		X	G				E	X		X	X								E
Methyl-2-Pentanol		E	E	E	E		E	C		G	G								
Methyl-2-Pentanone	X	X	C	X	G		E	X		X	X	G	X			X	X		

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: **E** = Excellent **G** = Good **C** = Conditional
Blank = No Data **X** = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Methyl-3-Penten-1-One	C																		
Methyl 1-2,4-Pentanediol	E																		
Methyl-1-Propanol		E	E	E	E		E	E		E	G		X			E			
1-Bromo-2 Methyl Propane		X	X	X			E	G		X	X								
1-Chloro-2-Methyl Propane		X	X				E	G		X	X								
3-Chloro-2-Methyl Propane	G																		
Methyl-2-Propen-1-Ol		E	E	E	E		E	C		G	G								
Methyl Propyl Ether		G	X				E			X	X								E
Methyl Salicylate			G	X	C		E	G		X	X								
Methyl Styrene	C																		
Methyl Sulfate													E	E	E				
Methyl Sulfide		X	C				E			X	X								
Methyl Sulfuric Acid						E							X	E	E				
Methyl Tertiary Butyl Ether (MTBE)	X		G	X			G	X			X					X		G	
Methylallyl Acetate		G	E				E	X		X	X								E
Methylamyl Alcohol		E	E	E	E		E	C		G	G								E
Methylated Spirit						E													
Methylene Bromide		X	X	X	X		E	C		X	X							G	
Methylene Chloride		X	X	X	C	X	E	G		X	X	C	X	X	C	X	X	E	C
Methylhexyl Ketone		X	G				E	X		X	X								E
Methylisobutyl Carbinol		E	E	E	E		E	C		G	G								C
Methylisobutyl Ketone	X	X	C	X	G		E	X		X	X	G	X			X	X	E	E
Methylisopropyl Ketone	X	X	G	X	C		E	X		X	X	E	X			X			E
Methyllactonitrile		C	E	G			E	X		C	X		X				E		
Methylphenol		C	X	X	X		E	E		X	X		X						
Methylpropyl Carbinol		E	E				E	G		E	E								
Methylpropyl Ketone		X	G	X	G		E	X		X	X					X			E
Mil-A-6091		E	E	E	E			E		E	G		X			E			
Mil-E-9500		E	E	E	E			E		E	E		X			E			
Mil-F-16884		C	X	C	X			E		X	E		C			X			
Mil-F-17111		X	X	G	X			E		X	E		C			X			
Mil-F-25558B		G	X	G	X			E		X	E		G			X			
Mil-F-25576C		C	X	C	X			E		X	E		C			X			
Mil-F-7024A		X	X	X	X			E		X	E		G			X			
Mil-G-10924B		G	X	X	X			E		X	E		G			X			
Mil-G-25013D		G	X	G	X			E		X	E		C			X			
Mil-G-25537A		G	X	G	X			E		X	E		G			X			
Mil-G-4343B		G	C	G	C			E		C	G		E			C			
Mil-G-5572		X	X	X	X			E		X	E		G			X			
Mil-G-7711A		X	X	X	X			E		X	E		E			X			
Mil-H-13910B		G	G	G	E			E		G	G		X			E			
Mil-H-19457B		X	E	X	E			C		X	X		X			X			
Mil-H-22251		G	E	G	E			E			G					G			
Mil-H-27601A		C	X	G	X			E		X	G		C			X			
Mil-H-5606B		G	X	G	C			E		X	E		G			X			
Mil-H-6083C		G	X	G	X			E		C	E		G			X			
Mil-H-8446B		C	X	G	X			E		X	G		C			X			
Mil-J-5161F		X	X	X	X			E		X	G		C			X			
Mil-J-5624G (JP-3, JP-4, JP-5)		X	X	X	X			E		X	E		C			X			
Mil-L-15016		G	X	G	X			E		X	E		E			X			

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Mil-L-17331D		G	X	G	X			E		X	E		E			X			
Mil-L-2104B		C	X	G	X			E		X	E		E			X			
Mil-L-21260		G	X	G	X			E		X	E		E			X			
Mil-L-23699A		C	X	C	X			E		X	G		C			X			
Mil-L-25681C		G	E	G	E			E		G	G		C			G			
Mil-L-3150A		G	X	G	X			E		X	E		G			X			
Mil-L-3545B		C	X	G	X			E		C	G		C			X			
Mil-L-4339C		X	X	X	X					X	E					X			
Mil-L-6082C		G	X	G	X			E		X	E		E			X			
Mil-L-6085A		X	X	X	X			E		X	G		C			X			
Mil-L-7870A		X	X	G	X			E		X	E		X			X			
Mil-L-9000F		C	X	G	X			E		X	E		C			X			
Mil-L-9236B		X	X	X	X			E		X	G		X			X			
Mil-O-5606								E			E								
Mil-O-7808		X	X	X	X		E	E		X	G		X			X			
Mil-P-27402		G	E	G	E						G					G			
Mil-S-3136B Type 1 Fuel		G	X	G	X			E		X	E		G			X			
Mil-S-3136B Type 2 Fuel		X	X	X	X			E		X	C		G			X			
Mil-S-3136B Type 3 Fuel		X	X	X	X			E		X	C		G			X			
Mil-S-3136B Type 4 Oil, low swell		E	X	E	X			E		X	E		E			X			
Mil-S-3136B Type 5 Oil, med swell		G	X	G	X			E		X	E		G			X			
Mil-S-3136B Type 6 Oil, high swell		X	X	X	X			E		X	E		G			X			
Mil-S-81087		E	E	E	E			E		E	E		E			E			
Milk						G								E					
Mineral Oil	G	E	X	E	X	C	E	E		X	E	E	E	G	E	X	X	E	E
Mineral Spirits		G	X	X	X		E	E		X	E	E	G			X		E	E
Mobile HFA					X		E				E	E							
Molasses						E							E	E	E				
Molten Sulfur		E	G	E	E		E	E		G	G		G					X	X
Monobutyl Ether		X	X	C	X		E	X		X	C		X			X			E
Mono-Chloroacetic Acid	X	X	G	E	C		E	G		C	X	X	X			X	X		E
Monochlorobenzene		X	X	X	X		E	E		X	X	G	X	X	X	X	X	G	X
Monochlorodifluoromethane	C	E	X	E	E		E	X		C	X	C				E	X		C
Monoethanol Amine		C	G	G	G		E	X		G	G	E	X			G		E	E
Monoethyl Amine		C	G	X	E		E	X		C	X	G	X			C			C
Monomethylamine		C	C	C	E		E	C		C	G	E							E
Monomethylether		C	E	E	E			C		G	E					G		E	E
Monovinyl Acetate		C	G	X	C			E		X	X					X		E	E
Morpholine				X	X		E				X	E							
Motor Oil		G		G	X		E	E			E	G	G					E	E
MTBE	X		G	X			G	X			X					X		G	
Muriatic Acid	X	C	C	C	C		E	C	E	C	C	X	C			X	E	E	E
Na-K					X		X				X								
Naphtha	E	X	X	X	X	X	E	E		X	E	E	C	X	C	G	X	E	E
Naphthalene	C	X	X	X	X	X	E	E		X	X	E	G	X	X	X	C	E	X
Naphthenic Acids	E	X		X	X		E	E		X	G					X			
Neatsfoot Oil		G	G	G	G		E	E	E	X	E					X		E	E
Neohexane		X	X				E	E		X	E								E
Neon Gas		E	E	E	E		E	E		E	E	E	E			E	E		
Nickel Acetate		X	E	G	E	E	E	X		E	G		X	E	E	X		E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Nickel Chloride	X	E	E	G	E	E	E	E		E	E	X	C	E	E	E		E	E
Nickel Nitrate		E	E	E	E	E	E	E		E	E	G	E	E	E			E	E
Nickel Plating Solution		G	G	C	G					E	G					X			
Nickel Sulfate	X	E	E	E	E	E	E	E		G	E	G	C	E	E	G		E	E
Nicotine						E							C	E	E				
Nicotine Acid						E							C	E	E				
Nietylene										E									
Niter Cake		E	E	E	E		E	E	E	E	E					E		E	E
Nitric Acid, 1-10%	X	G	E	G	E	G	E	X		X	X	C	X	E	G	X	E	E	E
Nitric Acid, 10%-25%	X	G	G	X	E		E	X		X	X	X	X			X		E	E
Nitric Acid, 25%-40%	X	C	C	X	G	C	E	C		X	X	X	X	G	G	X		G	G
Nitric Acid, 40%-60%	X	X	X	X	X	C	E	C		X	X	X	X	G	G	X		C	C
Nitric Acid, 70%						X							X	X	X				
Nitric Acid, Anhydrous						X							X	X	X				
Nitric Acid, Conc (16N)	X	X	X	X	X		E	E		X	X	X	X			X	X	E	G
Nitric Acid, Red Fuming	X	X	C	X	X		E	C		X	X	X	X			X	X	X	X
Nitrilotriethanol		E	G	X	E		E	X		G	C		X			G			
Nitrobenzene	C	X	G	X	X	X	E	C		X	X	C	X	X	X	X		E	X
Nitroethane		C	G	C	G		E	X		G	X		X			G	E	E	E
Nitrogen		E	E	E	E		E	E	E	E	E	E	E			E		E	E
Nitrogen Tetraoxide		X	X	X	X		E	X		X	X					X		X	X
Nitromethane		C	G	X	G		E	X		G	X	E	X			C		E	E
Nitropropane		C	E	C	G		E	X	E	C	X					C		E	E
Nitrous Oxide Gas		E	E	G	E		E	E	E	E	E	C	G			E		E	E
N-Nonyl Alcohol		E	E				E	G		E	E								
Nonanoic Acid		X	E				E			X	E								
N-Serv							E	E				E							C
Nuto H					X		E				E	E							
Nyvac Light					E		E				X	E							
Octadecanoic Acid		X	G	G	C		E	C	E	X	E					X		E	E
Cis-9-Octadecenoic Acid	X	G	X	C	C		E	E		X	E	E	G			X			E
Octane		X	X	G	X		E	E	G	X	E					X		G	G
N-Octane		X	X	C	X		E	E		X	E		X			X		G	E
Octanoic Acid		G	C				E			C	C								
2-Octanone		X	G	X	G		E	X		X	X		X			X			
Octyl Acetate		E	E				E	X		X	X							E	
Octyl Alcohol		G	G	G	G		E	G		G	G		X			G		E	E
Octyl Aldehyde		X	C				E	X		X	X								E
Octyl Amine		C	E				E	X		C	C								C
Octyl Carbinol		E	E				E	G		E	E								E
Octylene Glycol		E	E	E	E		E	E	E	E	E							E	C
Oil, Petroleum	G	G	X	G	X	G	E	E		X	E	G	G	E	E	X	C	E	E
Oils & Fats						G							E	E	E				
Oleic Acid	X	G	X	C	C	X	E	E		X	E	E	G	G	G	X		E	E
Oleum	X	X	X	X	X	X	E	G		X	X	X	X	X	X	X		X	X
Olive Oil		G	G	G	G		E	E	E	X	E	E	E			X		G	C
Orange Juice														E					
Orthoxylene	C	X	X	X	C		E	E		X	X	G	X			X	X		X
Oxalic Acid	X	E	E	G	E	G	E	E		C	G	E	C	E	E	G	E	C	C
Oxydiethanol	E											X							E
Oxygen						G							E	E	E				
Oxygen, Cold		G	E	E	E		E	E	E	G	C					C		E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Oxygen, Hot		X	E	E	E		E	E		G	C					C		E	E
Ozone		E	G	C	E	X	E	E		X	X	C	E	C	C	X		G	C
Paint Thinner		X	X	X	X		E	G	G	X	X	G	X			X		E	E
Palm Oil		G	E	G	G		E	E	E	X	E					X		E	E
Palmitic Acid	G	C	G	G	G		E	E		E	E	C	E			G	E	E	G
Palmitic Acid, 10%						E							X	E	E				
Palmitic Acid, 70%						C							X	C	C				
Papermakers Alum		E	E	E						E	E								
Para Methoxypropenyl Benzene	X	X	X				E	G		X		G							
Paraffin		X	X	E	X	C	E	E	E	X	E		E	E	E	X		X	X
Paraffin Wax		X	X	G	X			E		X	E	E	G			E		E	X
Paraformaldehyde		G	G	G	G		E	C		D	G					X		E	E
Paraldehyde		X	E	C	E		E	X		C	C								E
Paraxylene		X	X	X	X		E	E		X	C	E	C						X
Peanut Oil		G	C	G	X		E	E	E	X	E					X		E	E
Pelargonic Alcohol		E	E				E	G		E	E								E
Pentachloroethane		X	X	X			E	E		X	X								E
Pentadione	G																		
Pentamethylene		X	X	E	X		E	E		X	G								
Pentane		C	X	C	X		E	E		X	E	G	C	C	C	X		G	G
Pentanol		E	E	E	E		E	G		E	E		C						
Pentanone		X	G	X	G		E	X		X	X								E
4-Hydroxy-4-Methyl-2-Pentanone		C	E	C	E		E	X		C	X	G	X			C			E
Pentasol		E	E	E	E		E	G		E	G		X			G			E
Pentyl Acetate		X	G	X	E		E			X	X	G	X			X	X		
Pentyl Alcohol	E	E	E	E	E		E	E		E	G	E	X			E	E		
Pentyl Bromide							E	G											
Pentyl Chloride	C	X	X	X	X		E	E		X		E	C			X			G
Pentyl Ether		C					E				C								
Pentylamine		C	G	X	X		E	X		C	C								
2,4-Di-Sec-Pentylphenol	E																		
Peracetic Acid, 40%													X	X	X				
Perchlorethylene														X	X				
Perchloric Acid		E	G	E	G		E	E	B	G	X					X		E	E
Perchloric Acid, 10%						G							X	G	G				
Perchloric Acid, 70%						G							X	C	C				
Perchloroethylene	C	X	X	X	X		E	E		X	C	E	X			X	X	G	X
Perchloromethane			X	X			E			X	X								
Petrol						X								X	X				
Petrolatum		C	X	E	X			E		X	E					X		E	E
Petroleum Crude		G	X	G	X		E	E		X	E	G	E			X		E	G
Petroleum Ether		X	X	C	X	X	E	E		X	E	E	G	C	C	X		E	C
Petroleum Oils	G	G	X	G	X		E	E		X	E	G	G			X	C	E	C
Phenbo													X					E	
Phenol		X	G	X		X	E	E		X	X	X	X	X	X	X	X	E	C
Phenolsulfonic Acid		X	C				E	X		X	X		G					G	G
Phenylamine		X	E	X	G		E	E		X	X		C						
Phenylbromide		X	X	X	X		E	G		X	X		X						
Phenylbutane	C																		
Phenylchloride		X	X	X	X		E	E		X	X		X						E
Phenylethylene		X	X	X	X		E	G		X	X		C			X			
Phenylhydrazine		C	G	X	C			E		C	X			X	X	X		E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Phenylhydrazine Hydrochloride														C	C				
Phenylmethane		X	X	X	X		E	E		X	X		X						
Phenylmethanol		G	G	X	G		E	E		X	X	C	X			X	X	E	E
Phenylmethyl Acetate		G	E				E	X		X								E	E
Phorone		X	E	X	G		E	C	E	X	X					X		E	E
Phosgene, Gas						C								C	C				
Phosgene, Liquid														X					
Phospahte Esters	G	X	E	X	E		E	C		X	X	E	X			X	E		
Phosphoric Acid, 10%	X	E	G	E	E	E					E		X	E	E	G			
Phosphoric Acid, 10%-85%	X	E	G	E	E	E	E	E		G	X	X	X			G		E	E
Phosphorous Pentoxide						G								C	C				
Phosphorous Trichloride		X	E	X	E	C	E	E		X	X			X	X	X		E	E
Phosphorus, Yellow						X								G	G				
Photographic Developers						E							C	C	C				
Photographic Emulsions						E								C	C				
Photographic Fixers						E								C	C				
Di(2Ethylhexyl) Phthalate		X	G	X	G		E	G		X	X	E	X			X			
Pickling Solution		C	C	C	C		E	G	G	C	C					C		E	E
Picric Acid						G							X	X	X				
Picric Acid, H2O Solution	X	E	C	C	C					C	C					G			
Picric Acid, H2O Solution							C	E				X	G				X		E
Picric Acid, Molten		G	C	C	C		E	C	G	C	C					C		X	X
Pine Oil		X	X	X	X		E	E		X	G		E			X		E	X
Pinene		X	X	X	X		E	E		X	G		G			X		E	E
Piperidine		X	X	X	X		E	X	C	X	X					X		G	G
Pitch		C	X	G	X		E	C	G	X	G			G	G	X		E	E
Plating Solution, Brass						C							E	E	E				
Plating Solution, Cadmium						C							E	E	E				
Plating Solution, Chrome		C	E	G	E		E	G	E	X	G					X		E	E
Plating Solution, Chromium						X							G	G	G				
Plating Solution, Copper						C							E	E	E				
Plating Solution, Gold						C							E	E	E				
Plating Solution, Judium						C							E	E	E				
Plating Solution, Lead						C							E	E	E				
Plating Solution, Nickel						C							E	E	E				
Plating Solution, Rhodium						C							E	E	E				
Plating Solution, Silver						C							E	E	E				
Plating Solution, Tin						C							E	E	E				
Plating Solution, Zinc						C							E	E	E				
Poly Chlorinated Biphenol							E	E											
Polyethylene Glycol	E	E	E	E	E		E	E	E	E	E					E		E	E
Polyol Ester				G								G	X						
Polypropylene Glycol		E	E				E	E		E	E								
Polyvinyl Acetate Emulsion (PVA)		G	E	G	E		E	C		C	C					C		E	E
Potassium Acetate		C	E	G	E		E	C		E	G	G	X			X		E	E
Potassium Acid Sulfate						G							E	E	E				
Potassium Antimonate						E							E	E	E				
Potassium Bichromate						E							E	E	E				
Potassium Bisulfate		E	E	E	E		E	E		E	E	G				G		E	E
Potassium Bisulfite		E	E	E	E	E	E	E		E	E	G	E	E	E	G		E	E
Potassium Bisulphate						E								G					
Potassium Borate, 1%						E							E	E	E				
Potassium Bromate, 10%						E							E	E	E				

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Potassium Bromide						E							E	E	E				
Potassium Carbonate		E	E	E	E	E	E	E	E	E	E	E	C	E	E	E		E	E
Potassium Chlorate						E							G	E	E				
Potassium Chloride	G	E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Potassium Chromate		C	G	E	E		E	E		G	E	G	G			G		E	E
Potassium Chromate, 40%						E							G	E	E				
Potassium Cuprocyanide						E								E	E				
Potassium Cyanide	G	E	E	G	E	C	E	E		E	E	E	E	C	C	E		E	E
Potassium Dichromate	X	E	E	E	E		E	E		C	E	G	G			G		G	G
Potassium Dichromate, 49%						E							G	E	E				
Potassium Ferricyanide						E							E	E	E				
Potassium Fluoride						E							E	E	E				
Potassium Hydrate		E	E	G	G		E	C		G	G	G	G			G		E	E
Potassium Hydroxide	X	E	G	G	E		E	G		G	G	G	C			G	G	E	E
Potassium Hydroxide, 10%						E							C	E	E				
Potassium Hydroxide, 20%						E							X	E	E				
Potassium Hydroxide, 35%						G							X	E	E				
Potassium Hypochlorite						E							X	G	G				
Potassium Nitrate		E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Potassium Perborate						E							E	E	E				
Potassium Perchlorite						G							G	E	E				
Potassium Permanganate		X	E	X	E		E	E	E	X	X					X		E	E
Potassium Permanganate, 10%						X							G	G	E				
Potassium Permanganate, 5%		G	E	E	E		E	E		E	C	X	X			G		E	G
Potassium Persulfate						E							E	E	E				
Potassium Phosphate						E													
Potassium Silicate		E	E	E	E		E	E		E	E	G	E			E		E	E
Potassium Sulfate		E	E	E	E	E	E	E		E	E	E	E	E	E	G		E	E
Potassium Sulfide		E	E	E	E	E	E	E		G	E	E	E	E	E	G		E	E
Potassium Sulfite		E	E	E	E		E	E		G	E	E	E			G		E	E
Potassium Thiosulfate						E							E	E	E				
Power Steering Fluid													E	E	E				
Prestone Antifreeze							E	E				G	X				E	E	E
Producer Gas		G	X	G	X		E	E		X	E		E			X			
Propane						X							C	C	C				
Propanediol		E	C	C	E		E	E		E	E		G			E			
Propanetriol	E	E	E	E	E	E	E	E		E	E	G	C			E	X	E	E
Propanol (Propyl Alcohol)						E	E	E				E	X	E	E		E	E	E
1-Amino-2-Propanol		C	E				E	X		G	G								
Propanolamine	E																		
Propanone	G	X	E	X	E		E	X		C	X	E	X			C	E	E	C
Chloro-2-Propanone		X	X	C	E		E	X		X	X		X			X			
Propargyl Alcohol						E								E	E				
Propen-1-Ol							E	G										E	E
Propenediamene	E																		
Propenenitrile			X	X			E			G	X								
Propenyl Alcohol		E	E	E	E		E	G		E	E							E	E
Propenylanisole		X	X				E	G		X	X								
Propionic Acid		G	E	C	E		E	X		E	C		X			X			E
Propionitrile			E	G	E		E	X		E	X						X		

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
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Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Propyl Acetate		X	G	X	E		E	X		X	X		X			X		E	E
Propyl Alcohol (Propanol)		E	E	E	E	E	E	E		E	E	E	X	E	E	E	E	E	E
Propyl Aldehyde		X	G				E	X		C	X							E	E
Propyl Benzene	C																		
Propyl Chloride		X	C				E	G		X	X							E	E
Propyl Ether	E																		
Propyl Nitrate		X	G	X	G		E	X		X	X		X			X			
Propylene		X	X	X	X		E	E		X	X		X			X			
Propylene Diamine		C	E				E			G	G								
Propylene Dichloride		X	X	X	X	X	E	G		X	X		X	X	X	X		G	G
Propylene Glycol	E	E	E	E	E	E	E	E		E	E	G	X			E	X	E	E
Prune Juice														E					
Pydraul Hydraulic Fluids		D	G	D	G		E	C	E	X	X	G	X			X		G	G
Pyranol		X	X	X	X			E		X	C					X		E	E
Pyridine		X	G	X	G		E	X	G	X	X					X		E	E
Pyroligneous Acid		G	G	G	G			E		C	C					C		E	E
Pyrrole		X	G	X	C			C		C	X					G		E	E
Quintolubric 822 Series			X	X	X			G		X	G								
Rape Seed Oil		G	E	G	G		E	E	E	X	G					X		G	G
Red Oil	X	G	X	C	C		E	E		X	E	E	G			X		E	C
Resorcinol				X	G		E	E				X	X			G	X		E
Rosin Oil		G	X	E	X			E		X	E					X		E	E
Rotenone And Water		E	E	E	E			E		E	E					E		E	E
SAE Oil #10	G	X	X	C	X		E	E		X	E	E	E			X	X		C
Salicylic Acid		E	E	X	E	E	E	E	E	E	X					G		E	E
Sea Water		E	E	G	E	E	E	E	E	E	E	E	C	E	E	E	E	E	E
Selenic Acid						G							X	E	E				
Sewage		E	G	G	E		E	E		G	E	G	X			G	G	X	E
Shortening G						E								G					
Silicate Esters		G	C	E	X		E	E		X	G	G	E			X		C	
Silicate of Soda		E	E	E	E		E	E		E	E	E						E	E
Silicic Acid						E							X	E	E				
Silicone Fluids						E													
Silicone Grease		E	E	E	E		E	E		E	E	E	E			E		G	E
Silicone Oil		E	E	E	E		E	E		C	E	E	E			E		E	E
Silver Cyanide						E							E	E	E				
Silver Nitrate		E	E	E	E	E	E	E		E	G	E	E	E	E	E		E	E
Silver Plating Solutions						E							E	E	E				
Skelly Solvent		C	X	G	X			E		X	E					X		E	E
Skydrol Hydraulic Fluids		X	E	X	E		E	X	E	X	X					X		E	E
Soap Solutions	G	E	G	G	E	G	E	E		G	E	E	E	E	E	G	E	E	E
Soda Ash	G	E	E	E	E		E	E		E	E	G	G			E		E	E
Soda Lime		G	E	G	E		E	G		E	G		C					E	E
Soda, Caustic	C	E	E	E	E		E	X		G	C	G	G			E	C	E	E
Sodium Acetate		C	E	G	E	E	E			E	G	G	X			X		E	E
Sodium Acid Sulfate						E							E	E	E				
Sodium Aluminate		E	E	E	E		E	E		G	E	G				G		E	E
Sodium Antimonate						E							E	E	E				
Sodium Arsenite						E							E	E	E				
Sodium Benzoate						E							E	E	E				
Sodium Bicarbonate		E	E	E	E	E	E	E		E	E	E	E	E	E	E		E	E
Sodium Bisulfate	X	E	E	E	E	E	E	E		E	G	C	E	E	E	G		E	E
Sodium Bisulfite		E	E	E	E	E	E	E		E	E	E	E	E	E	G		E	E
Sodium Borate		E	E	E	E		E	E		E	E	E	G			E		E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Sodium Bromide						E							E	E	E				
Sodium Carbonate	G	E	E	E	E	E	E	E	E	E	E	G	G	E	E	E		E	E
Sodium Chlorate						E							G	G	G				
Sodium Chloride	G	E	G	E	E	E	E	E		E	E	E	E	E	E	E	C	E	E
Sodium Chromate		C	E	C	G		E	C		X	X					X		G	G
Sodium Cyanide	G	E	E	E	E	E	E	E		E	E	E	G	E	E	E		E	E
Sodium Dichromate		G	E	G	C	E	E	E		C	E	G	G	E	E	G		E	E
Sodium Ferrocyanide						E							E	E	E				
Sodium Fluoride		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Sodium Hydrate		G	E	G	E		E	G		E	G	G	C			G			E
Sodium Hydrochlorite		E	G	C	G		E	E		C	C	G	C			G			E
Sodium Hydroxide	C	E	E	G	E		E	C		E	C	G	C			G	C	E	E
Sodium Hydroxide, 10%						E							G	E	E				
Sodium Hydroxide, 35%						E							C	E	E				
Sodium Hydroxide, 50%														G					
Sodium Hypochlorite	X	G	G	C	G	E	E	C		X	X	X	C	E	E	C	C	E	G
Sodium Metaphosphate		G	G	G	E		E	E		E	E	E	G			E		G	E
Sodium Nitrate	G	E	E	G	E	E	E	E		G	G	E	G	E	E	G		E	E
Sodium Nitrite		E	E	E	E	E	E	E	E	E	E		E	E	E	E		E	E
Sodium Perborate	X	G	E	G	E		E	E		G	G	G	G			G		E	E
Sodium Peroxide	X	G	E	G	E		E	E		G	G	X	X			G		E	E
Sodium Phosphate		E	E	C	E		E	E		E	E	E	E			E		E	E
Sodium Phosphate, Acid						E							U	G	G				
Sodium Silicate	G	E	E	E	E	E	E	E		E	E	E	G	E	E	E		E	E
Sodium Sulfate	G	E	E	E	E	E	E	E		G	E	E	E	E	E	G		E	E
Sodium Sulfide	G	E	E	E	E	E	E	E		G	E	E	E	E	E	G		E	E
Sodium Sulfite		E	E	E	E	E	E	E		G	E	E	E	E	E	G		E	E
Sodium Thiosulfate		E	E	E	E	E	E	E		E	E	G	E	E	E	G		E	E
Soft Drinks						G								E					
Soya Oil														E					
Soybean Oil	G	E	C	E	X		E	E		X	E	E	G	G		X		E	E
Stannic Chloride	X	C	G	C	E	E	E	E		G	E	C	G	E	E	E		E	E
Stannic Sulfide		E	E				E			E	E								E
Stannous Chloride		E	G	E	C	E	E	E		E	E	G	C	E	E	E		E	
Stannous Sulfide		E	E				E			E	E								E
Starch						E													
Stearic Acid	G	C	G	G	G	E	E	E		C	E	E	E	C	C	G	E	E	E
Stoddard Solvent	G	X	X	C	X	C	E	E		X	E	E	G	C	G	X	X	E	E
Styrene Monomer		X	X	X	X		E	G		X	X	E	C			X		G	G
Sugar Solutions		E	E	E	E	E	E	E	E	E	E					E		E	E
Sulfamic Acid		E	E	G	X		E	E		G	C		X						C
Sulfite Liquors		E	E	G	G		E	E		G	G					G		E	E
Sulfonic Acid		C	X	C	X		E	X		X	X					X		G	G
Sulfur		F	F	X	F		E	G		X	X			G	G	X		E	X
Sulfur, Molten		E	E	E	E					G	G					G			
Sulfur Chloride	G	C	X	C	X		E	E		X	C	C	C			X		E	E
Sulfur Dioxide		C	G	X	E		E	E		C	X	X				C		G	C
Sulfur Dioxide Gas, Dry						E								E	E				
Sulfur Dioxide Gas, Wet						E								C	C				
Sulfur Dioxide, Liquid						X								C	C				
Sulfur Hexafluoride		E	E	E	E		E	E	E	E	E					E		E	E
Sulfur Trioxide		B	C	C	C		E	E	G	X	C					C		D	G

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Sulfur Trioxide, Dry		C	G	X	G		E	E		C	X	X	G			X		X	G
Sulfur, Molten							E	E										E	C
Sulfuric Acid, 1%-60%						G								E	E				
Sulfuric Acid, 70%						C								E	E				
Sulfuric Acid, 95%						X								X	X				
Sulfuric Acid, 95% Fuming						X								C	C				
Sulfuric Acid, 25%	X	E	G	E	E		E	E		G	E	X	X			G	E	E	E
Sulfuric Acid, 25%-50%	X	G	G	E	E		E	E		G	E	X	X			G		E	E
Sulfuric Acid, 50%-96%	X	C	X	C	G		E	E		X	C	X	X			X		E	E
Sulfuric Acid, 60% (200°F)	X		X	X	X			C			X	X				X		X	X
Sulfuric Acid, Conc. 96%-98%	X	X	X	X	X		E	G		X	X	X	X			X		E	C
Sulfuric Acid, Fuming	X	X	X	X	X		E	G		X	X	X	X			X		X	X
Sulfurous Acid, 10%	X	E	E	G	E	E	E	E		G	C	X				G		E	E
Sulfurous Acid, 10%-85%	X	E	E	C	G		E	G		G	C	X	X			C		X	E
Sulfurous Acid, 30%						X													
Sulphur Trioxide						X								E	E				
Sutan							E	F											E
Tall Oil		C	X	C	X		E	E		X	E		E			X		E	G
Tallow		C	G	G	E	E	E	E		C	E	E	E			X		E	E
Tannic Acid	X	E	E	E	E	E	E	E		E	E	G	E	E	E	G	E	E	E
Tanning Extracts						E													
Tanning Liquors						C								E	E				
Tar, Bituminous	G	C	X	C	X		E	E	E	C	G	G	G			X		E	E
Tar, Camphor	C	X	X	X	X		E	E	E	X	X	E	G			X	C	E	X
Tartaric Acid	X	E	G	E	C	E	E	E		E	E	E	E	E	E	G	E	E	E
Tea, Brewed						G								E					
Telone 2																			E
Terpinol	E	X	C	X	C		E	E	E	X	G	G	G			X		G	G
Tertiary Butyl Alcohol		G	G	G	G		E	E		G	G		X			G		E	E
Tertiary Butyl Amine		X			G														
Tertiary Butyl Mercaptan		X	X	X	X		E	E		X	X		X			X			
Tetrachlorobenzene		X	X				E	G		X	X		G						G
Tetrachloroethane		X	X	X	X		E	E		X	X		X			X	C	C	
Tetrachloroethylene		X	X	X	X		E	E		X	C	E	X			X		G	X
Tetrachloromethane		X	X	X	X		E	E		X	X	E	C					C	X
Tetrachloronaphthalene		X	X				E	G		X	X								G
Tetraethyl Lead		X	X	C	X		E	E	G	X	G		G	G	G	X		E	E
Tetraethylene Glycol		E	E				E	E		E	E								
Tetraethylorthosilicate			E	X			E			X	X								
Tetrahydrofuran (THF)		X	G	X	X		E	X		X	X	G	X			X	X	C	X
Tetrahydrofurane						X							X	X	X				
Thionyl Chloride		X	X	X	X	X	E	G		X	X		X	X	X	X		E	
Tin Chlorides		E	G	C	E		E	E		E	E	C	G	E	E			E	E
Tin Tetrachloride		E	E	E	E		E	E	E	E	E					E		E	E
Titanium Tetrachloride		X	X	X	X		E	E		X	C		X	E	E	X		G	X
Titanium Trichloride						X													
Toluene	C	X	X	X	X	X	E	E		X	X	E	X	X	C	X	X	E	X
Toluene Diisocyanate (TDI)		X	E	X	E		E	G		C	C					C		E	E
Toluidine		X	X				E	G		X	X								
Tomato Juice						C								E					
Toxaphene		X	X	G	X			E		X	G					X		E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
Blank = No Data X = Not Recommended

Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Transformer Oils, Chlorinated Phenyl Base Askerels		X	X	X	X		E	E	G	X	X					X		G	G
Transformer Oils, Petroleum Base		G	X	G	X		E	E	E	X	E		E			X		E	E
Transmission Fluid													E	E	E				
Transmission Fluids, A		X	X	C	X		E	E	E	X	G	G	E			X		A	A
Transmission Fluids, B		X	X	X	X			E		X	C					X		A	A
Tri (2-Hydroxyethyl) Amine		E	G	X	E		E	X		G	C		X			G			
Tributyl Amine		C	E				E			G	G								
Tributyl Phosphate		X	G	X	E		E	X		C	X	G	X	X	X	X		E	E
Tricetin		G	E	G	E			X		E	G					G		E	E
Trichloroacetic Acid		C	G	X	G		E	X		C	C	X	X			X		E	E
Trichlorobenzene		X	X	X		X	E	G		X	X		X	X	X	X			
Trichloroethane		X	X	X	X		E	E		X	X	E	X			X			
Trichloroethylene	C	X	X	X	X	X	E	E		X	X	G	X	X	C	X	X	C	X
Trichloromethane	X	X	X	X	X		E	E		X	X	C	X			X	X	C	C
Trichloropropane		X	X	X	X		E	E		X	X					X		E	E
Trichlorotoluene							E				X								
Tricresyl Phosphate (TCP)		X	E	C	E	X	E	E		C	X	G	X	X	X	X		E	E
Triemethyl Propane														C	C				
Triethanolamine		E	G	X	E	C	E	X		G	C	E	X	C	G	G		E	E
Triethylamine			C	G	E		E	E		G	E	E	X	G	G	X			
Triethylene Glycol		E	E				E	E		E	E								E
Trihydroxybenzoic Acid		G	G	G	G		E	E		E	G	G	X			G		G	
Trimethyl Pentanes, Mixed	E	C	X	C	X		E	E		X	E	E	G			X	X	E	
Trimethyl Pentene	E											E						E	
Trimethylamine	E						E											E	E
Trinitrotoluene (TNT)		G	X	G	X			G		X	X					X		X	X
Triphenyl Phosphate		C	E	C	G		E	C		X	X					X		E	E
Trisodium Phosphate		E	E	E	E					E	E					E			
Tritoyl Phosphate		X	E	X	E		E	E		X	X	G	X			X		E	
Tung Oil	C	E	X	E	X		E	E		X	E	G	C			X		E	E
Turbine Oil		G	X	G	X			E		X	G					X		E	E
Turpentine		X	X	X	X	X	E	E		X	G		E	C	G	X		G	E
Ucon Hydrolube Oils		X	E	G	E		E	E	E	X	E					X		E	E
UDMH		E	E	G	E		E	X		E	G		X			X		C	C
1 Undecanol		E	E	E	E		E	G		E	E					E			E
Undecyl Alcohol		E	E	E	E		E	G	E	E	E					E		E	E
Uran		E	G	G	G			C		G	G					C		E	E
Urea		E	E	G	E	E	E	E		E	G	E	G	E	E			E	E
Urethane Formulations							E				E	E							
Uric Acid							E					G	X				E		E
Urine						E							E	E	E				
Varnish	C	X	X	X	X	X	E	E		X	G	E	C	X	X	X		E	
Vegetable Oils		G	C	C	C	X	E	E		X	E	G	E	G	G	X		E	G
Versilube F44		E	E	E	E		E	E		E	E	E	E			E			
Versilube F55		E	E	E	X		E	E		E	E	E	E			E			
Vinegar		E	E	G	E	E	E	E		G	G	C	C	E		G		E	E
Vinegar Acid	G																		
Vinyl Acetate		C	E	X	G	X	X	E		X	X		X	X	X	X		E	E
Vinyl Benzene		X	X	X	X		E	G		X	X		C			X		E	G
Vinyl Chloride														X	X				
Vinyl Chloride, Gas			X		G		E			G		E						C	E
Vinyl Cyanide	E	C	X	C	X		E	C		C	X	E	X			C	X		
Vinyl Ether		G	X				E	X		X	G							E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.

(Continued on the following page)

Hose and Chemical Table *(Continued)*

Refer to *Names and General Properties of Hose Materials* table.

Key: E = Excellent G = Good C = Conditional
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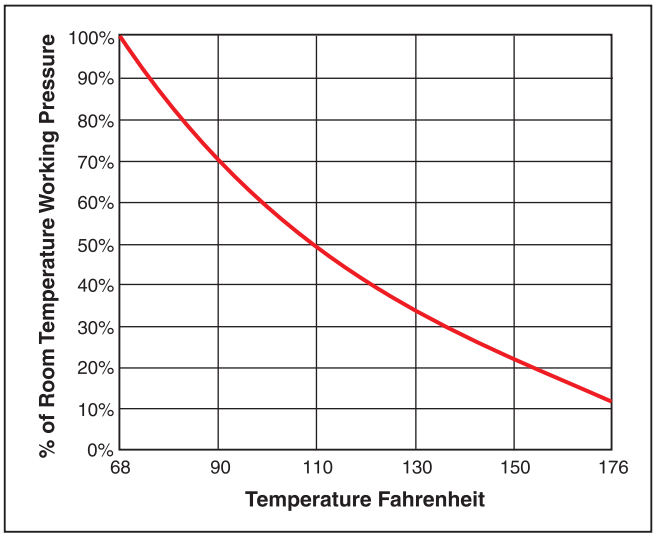
Chemical Or Material Conveyed	CPE	CSM	Chlorobutyl	Chloroprene	EPDM	EVA***	FEP/PTFE	FKM	MXLPE	Natural	Nitrile	Nylon	PU***	PVC***	PVC/PU***	SBR	TPV***	UHMWPE	XLPE
Vinyl Styrene		X	X				E	E		X						X		E	E
Vinyl Toluene		X	X				E	E		X	X							E	E
Vinyl Trichloride		X	X	X			E	E		X	X							E	E
Vital, 4300, 5310					X		E				X	E							
VM&P Naphtha		X	X	C	X		E	E		X	C								X
Water	G	E	E	G	E		E	E	E	E	E	E	E			G	E	E	E
Water, Acid						E							G	E	E				
Water, Boiling		E	E	G	E		G	G			G	X	G			G	G	X	X
Water, Demineralized						E							E	E	E				
Water, Detergent Solution		E	E	G	E		E	E	G	G	E	E	G			G		E	E
Water, Distilled						E							E	E	E				
Water, Fresh						E	E	E	E				G	E	E			E	E
Water, Potable						E								E					
Water, Salt		G	E	E	E	E	E	E	E	E	G		G	E	E	G		E	E
Water, Soda							E					E					E	E	E
Wemco C		X	X	G	X					X	E					X			
Whey						G								E					
Whiskey		E	E	E	E		E	E		E	E	E	X	C		E		E	E
White Gasoline						X							E	E	E				
White Liquor		E	G	E	C			E		E	E			E	E	E		E	E
White Oil		X	X	G	X		E	E		X	E		E			X		E	X
White Pine Oil		X	X	X	X			E		X	G					X			
Wines		E	E	E	E		E	E		E	E	E	X	G		E		E	G
Wood Alcohol		E	E	E	E		E	C		E	E		X			E		E	E
Wood Oil		C	C	G	X		E	E		X	E	G	C			X		E	E
Xenon		E	E	E	E		E	E		E	E		E			E			
Xylene, Xylol	C	X	X	X	X	X	E	E		X	X	G	C	X	C	X	X	C	X
Xylidine		X	G	X	C		E	C		X	C					X		G	G
Zeolites		E	E	E	E			E		E	E					E			
Zinc Acetate		C	E	G	E		E	C		E	G	X	X			X			E
Zinc Carbonate		E	E	E	E		E	E		E	E		E					E	E
Zinc Chloride	X	E	E	E	E	E	E	E		E	E	C	G	E	E	E		E	E
Zinc Chromate		C	E			E	E						E	E	E				G
Zinc Cyanide						E							E	E	E				
Zinc Nitrate						E							E	E	E				
Zinc Sulfate	X	E	E	E	E	E	E	E		E	E	E	G	E	E	G		E	E

***Refer to the PVC and Thermoplastic Temperature/Pressure chart in this section.**

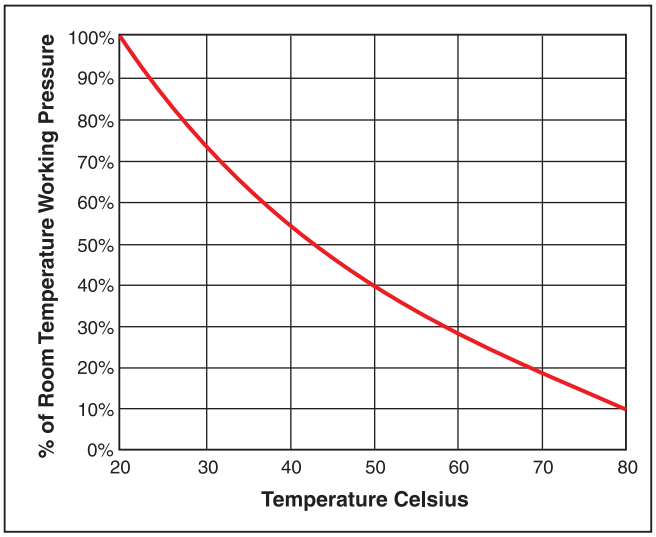
PVC and Thermoplastic Temperature / Pressure Chart

Effects of Elevated Temperatures on PVC / Thermoplastic Hose and Tubing

Thermoplastic hose and tubing achieve their optimum physical properties at room temperature, 68˚F (20˚C). As thermoplastic materials are exposed to increased ambient temperatures, they soften and their physical properties change. For hose and tubing, heat sharply reduces the available working pressure and coupling retention. The charts below illustrate this effect. In all cases, test the product in a controlled, secure and safe environment, and consider all operating conditions prior to use.



Example from the Fahrenheit Chart
If Working Pressure at 68°F is 200 PSI, then the WP at 110°F is 200 x 50%, or 100 PSI.



Example from the Celsius Chart
If Working Pressure at 20˚C is 14 bar, then the WP at 50˚C is 14 x 40%, or 5.6 bar.

For further information, refer to the Parker Safety Guide No. 4400-B.1 previously in this section and the Parker User Responsibility Statement on the inside front cover of in this catalog.

Metal/Coupling Corrosion Resistance Table

⚠WARNING! The following data has been complied from generally available sources and should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

Key: E = Excellent • G = Good • C = Conditional • Blank = No Data • X = Not Recommended

Chemical Or Material Conveyed	Aluminum	Brass	Carbon Steel	Stainless Steel 202, 302, 304, 308	Stainless Steel 316	Stainless Steel 410, 416, 430
Acetate, Solvents, Crude	C	C		E	E	G
Acetate, Solvents, Pure	E	E		E	E	E
Acetic Acid	X	X	X	G	G	G
Acetic Acid Vapors	C	X	X	G	G	X
Acetic Anhydride	G	X	X	G	G	X
Acetone	E	E	E	E	E	E
Acetylene	E	X	E	E	E	E
Alcohols	E	G	E	E	E	E
Aluminum Sulfate	X	X	X	C	G	X
Alums	C	C	X	C	G	X
Ammonia Gas	C	X	E	E	E	E
Ammonium Chloride	C	X	X	C	C	X
Ammonium Hydroxide	G	X	X	E	E	C
Ammonium Nitrate	G	X	E	E	E	E
Ammonium Phosphate		X		E	E	E
Ammonium Phosphate, Acid		C		G	E	C
Ammonium Phosphate, Neutral	C	C	X	E	E	E
Ammonium Sulfate	X	X	X	G	G	G
Asphalt	E	E	E	E	E	E
Beer	E	E	X	E	E	E
Beet Sugar Liquors	E	G	C	E	E	G
Benzene, Benzol	E	E	E	E	E	E
Benzine	E	E	E	E	E	E
Biodiesel	E	X	G	E	E	E
Borax		E	G	E	E	E
Boric Acid	E	C	C	G	E	C
Butane, Butylene	E	E	E	E	E	E
Butadiene	E	E	E	E	E	E
Calcium Bisulfate		X		G	E	X
Calcium Hypochlorite	X	X	X	C	G	C
Cane Sugar Liquors	E	E	E	E	E	E
Carbon Dioxide, Dry	E	E	E	E	E	E
Carbon Dioxide, Wet, (AQ)	E	E	G	E	E	E
Carbon Disulfide	G	C	G	E	E	G
Carbon Tetrachloride	C	E	E	E	E	E
Chlorine, Dry	X	X	G	G	E	G
Chlorine, Wet	X	C	X	X	C	X
Chromic Acid	X	X		G	G	C
Citric Acid	E	X	X	X	E	C
Coke Oven Gas	G	C	E	E	E	E
Copper Sulfate	X	X	X	E	E	E
Core Oils		E		E	E	E
Cottonseed Oil	E	C	C	E	E	E
Creosote	E	C	G	E	E	E
Ethers	E	C	C	E	E	E
Ethylene Glycol		G	G	E	E	E

Chemical Or Material Conveyed	Aluminum	Brass	Carbon Steel	Stainless Steel 202, 302, 304, 308	Stainless Steel 316	Stainless Steel 410, 416, 430
Ferric Chloride	X	X	X	X	X	X
Ferric Sulfate	X	X	X	E	E	C
Formaldehyde, 50%	G	G	C	E	E	C
Formic Acid	X	G	X	E	E	E
Freon	E	E	C	E	E	E
Furfural	E	G	E	E	E	E
Gasoline, Refined	E	E	E	E	E	E
Gasoline, Sour	C	C	E	E	E	C
Gelatin	E	C	X	E	E	X
Glucose	E	E	E	E	E	E
Glue	E	E	E	E	E	E
Glycerine or Glycerol	E	G	E	E	E	E
Hydrochloric Acid, 37%	X	X	X	X	C	X
Hydrocyanic Acid, 10%	E	X	X	E	E	X
Hydrofluoric Acid	X	X	X	X	X	X
Hydrogen	E	E	E	E	E	E
Hydrogen Fluoride		C		X	E	X
Hydrogen Peroxide	E	X	C	G	E	E
Hydrogen Sulfide, Dry	C	C	C	G	C	C
Hydrogen Sulfide, Wet	X	X	X	G	E	X
Lacquers, Lacquer Solvents	E	G	C	E	E	E
Lactic Acid	C	X	X	C	G	E
Lime, Sulfur	G	X	G	E	G	E
Linseed Oil	E	E	E	E	E	E
Magnesium Chloride	X	C	C	G	X	X
Magnesium Hydroxide	X	G	E	E	E	E
Magnesium Sulfate	C	G	G	E	E	E
Mercuric Chloride	X	X	X	X	X	X
Mercury	X	X	E	E	E	E
Milk	X	C	X	E	E	G
Molasses	G	E	G	E	E	G
Natural Gas	E	G	E	E	E	E
Nickel Chloride	X	X	X	C	G	E
Nickel Sulfate	X	C	X	G	E	C
Nitric Acid	C	X	X	G	G	G
Oleic Acid	E	C	X	G	E	G
Oxalic Acid	X	X	X	G	E	C
Oxygen	E	E	E	E	E	E
Palmitic Acid	E	E	C	G	E	C
Petroleum Oils, Sour		C		E	E	C
Petroleum Oils, Refined	E	E	E	E	E	E
Phosphoric Acid, 25%	X	X	X	C	E	C
Phosphoric Acid, 25%-50%	X	X	X	X	G	C
Phosphoric Acid, 50%-85%	X	X	X	X	G	C

(Continued on the following page)

Silicone Hose and Chemical Table

⚠WARNING! The following data is based on tests and believed to be reliable; however, the tabulation should be used as a guide ONLY, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc., that may be encountered in actual use. All critical applications should be tested. Refer to the Safety & Technical Information section of this catalog for safety, handling and use information.

Key: E = Excellent • G = Good • C = Conditional • X = Not Recommended • I = Insufficient Data

Chemical or Material Conveyed	Rating
Acetic acid, dilute, 10%	G
Acetic acid glacial	C
Acetic acid anhydride	I
Acetone	X
Acetylene	C
Air 68°F (20°C)	E
Air 150°F (65°C)	E
Aluminum chloride 150°F (65°C)	E
Aluminum fluoride 150°F (65°C)	G
Aluminum sulfate 150°F (65°C)	E
Alums 150°F (65°C)	E
Ammonia gas, anhydrous	I
Ammonia 10%water solution	E
Ammonia 30%water solution	C
Ammonium chloride	C
Ammonium hydroxide	C
Ammonium nitrate	E
Ammonium phosphate monobasic	E
Ammonium phosphate dibasic	E
Ammonium phosphate tribasic	E
Ammonium sulfate	E
Amyl acetate	X
Amyl alcohol	X
Aniline, Aniline oil	X
Aniline, dyes	X
Asphalt	I
Barium chloride 150°F (65°C)	E
Barium hydroxide 150°F (65°C)	E
Barium sulfide 150°F (65°C)	E
Beer	E
Beet sugar liquors	E
Benzene, Benzol	X
Benzine, petroleum ether	X
Benzine, petroleum naphtha	X
Black sulfate liquor	E
Blast furnace gas	E
Borax	G
Boric acid	E
Bromine	X
Butane	X
Butyl acetate	X
Butyl alcohol, Butanol	C
Calcium bisulfate	C
Calcium chloride	E
Calcium hydroxide	E
Calcium hypochlorite	C
Caliche liquors	G
Cane sugar liquors	E
Carbolic acid, phenol	X
Carbon dioxide, dry-wet	E
Carbon disulfide	X
Carbon monoxide 140°F (60°C)	E
Carbon tetrachloride	X

Chemical or Material Conveyed	Rating
Castor oil	E
Cellosolve acetate	X
CFC-12	I
China wood oil, tung oil	X
Chlorine, dry/wet	X
Chlorinated solvents	X
Chloroacetic acid	I
Chlorosulfonic acid	X
Chromic acid	C
Citric acid	E
Coke oven gas	G
Copper chloride 150°F (65°C)	E
Copper sulfate 150°F (65°C)	E
Corn oil	E
Cottonseed oil	E
Creosote, coal tar	C
Creosote, coal tar wood	X
Creosols, cresylic acid	I
Dichlorobenzene	X
Dichloroethylene	X
Diesel fuel	X
Diethanolamine 20%	X
Diethylamine	G
Diisopropylamine	I
Dioctylphthalate	X
Ethers	X
Ethyl acetate	G
Ethyl alcohol	E
Ethyl cellulose	C
Ethyl chloride	C
Ethyl glycol	E
Ferric chloride 150°F (65°C)	E
Ferric sulfate 150°F (65°C)	G
Formaldehyde	G
Formic acid	C
Fuel oil	X
Furfural	X
Gasoline, unleaded	X
Gasoline + MTBE	X
Gasoline Hi Test + MTBE	X
Gelatin	E
Glucose	E
Glue	E
Glycerine, glycerol	E
Green sulfate liquor	E
HFC-134	I
Hydraulic fluids: Petroleum	C
Hydraulic fluids: Phosphate ester alkyl	X
Hydraulic fluids: Phosphate ester aryl	X
Hydraulic fluids: Phosphate ester blends	X
Hydraulic fluids: Silicate ester	X

Chemical or Material Conveyed	Rating
Hydraulic fluids: Water glycol	E
Hydrobromic acid	X
Hydrochloric acid	X
Hydrocyanic acid	G
Hydrofluoric acid	X
Hydrofluosilicic acid	I
Hydrogen gas 140°F (60°C)	C
Hydrogen peroxide	E
Hydrogen sulfide, dry	X
Hydrogen sulfide, wet	X
Isobutyl alcohol	E
Isopropyl alcohol	E
Isooctane	X
Kerosene	X
Lacquers	X
Lacquers solvents	X
Lactic acid	E
Linseed oil	E
Lubricating oil, crude	C
Lubricating oil, refined	C
Magnesium chloride 150°F (65°C)	E
Magnesium hydroxide 150°F (65°C)	G
Magnesium sulfate 150°F (65°C)	E
Mercuric chloride	E
Mercury	E
Methyl alcohol, methanol	E
Methyl chloride	X
Methyl ethyl ketone	X
Methyl isopropyl ketone	C
Milk	E
MTBE	I
Mineral oils	E
Natural gas	C
Nickel chloride 150°F (65°C)	E
Nickel sulfate 150°F (65°C)	E
Nitric acid, crude	X
Nitric acid, diluted 10%	C
Nitric acid, concentrated 70%	X
Nitrobenzene	C
Oleic acid	X
Oleum	I
Oxalic acid	G
Oxygen	X
Palmitic acid	X
Perchlorethylene	C
Petroleum oils and crude 200°F (95°C)	X
Phosphoric acid, crude	C
Phosphoric acid, pure 45%	C
Picric acid, molten	X
Picric acid, water solution	I
Potassium chlorite	E
Potassium cyanide	E

Chemical or Material Conveyed	Rating
Potassium hydroxide	C
Potassium sulfate	E
Propane	X
Sewage	G
Soap solution	E
Soda ash, sodium carbonate	E
Sodium bicarbonate, baking soda	E
Sodium bisulfate	E
Sodium chloride	E
Sodium cyanide	E
Sodium hydroxide to 50% at 140°F	E
Sodium hypochlorite	G
Sodium metaphosphate	E
Sodium nitrate	X
Sodium perborate	G
Sodium peroxide	C
Sodium phosphate, monobasic	X
Sodium phosphate, dibasic	X
Sodium phosphate, tribasic	X
Sodium silicate	E
Sodium sulfate	E
Sodium sulfide	E
Sodium thiosulfate, hypo	I
Soybean oil	E
Stannic chloride	G
Steam 450°F (230°C)	I
Stearic acid	E
Sulfur	G
Sulfur chloride	C
Sulfur dioxide, dry	G
Sulfur trioxide, dry	G
Sulfuric acid, 10%	X
Sulfuric acid, 11% - 75%	X
Sulfuric acid, 76% - 95%	X
Sulfuric acid, fuming	X
Sulfurous acid	X
Tannic acid	G
Tar	G
Tartaric acid	E
Toluene, Toluol	X
Trichloroethylene	X
Turpentine	X
Urea, water solution	E
Vinegar	E
Vinyl acetate	X
Water, acid mine	E
Water, fresh	E
Water, distilled	E
Whiskey and wines	E
Xylene, xylol	X
Zinc chloride	E
Zinc sulfate	E

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