

BRASS, COMPOSITE AND THERMOPLASTIC FITTINGS AND VALVES

Catalog 3501E USA | February 2026

Parker



OTSEGO, MICHIGAN



TIJUANA, MEXICO



ALBION, INDIANA



LAKEVIEW, MICHIGAN



MESA, ARIZONA

⚠ WARNING – USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

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The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated on the separate page of this document entitled “Offer of Sale”.

Safe Drinking Water Act

In accordance with 42 USC § 300g-6, parts in this catalog are to be used exclusively for nonpotable services such as manufacturing, industrial processing, irrigation, outdoor watering, or any other uses where the water is not anticipated to be used for human consumption. The only exceptions are parts described explicitly as “low lead” or suitable for potable water.

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Parker

Parker Hannifin Corporation
Fluid Connectors Group
Otsego, Michigan

DIRECTIVES AND REGULATIONS

Parker complies with the directives and regulations listed below and goes beyond its statutory obligations for the ranges in question.

D.O.T. FMVSS 571.106

Fittings comply with the performance requirements

Fittings meet the requirements of the specific SAE standard called out in the product sections

DIN 74324

Fittings comply with the performance requirements

Fittings are listed under 1 of 3 categories depending on the application. Fittings meet dimensional and testing requirements as specified by Underwriter Laboratories and carry the UL symbol.

ISO 6149-3

Fittings meet the dimensional requirements

REACH regulation: no. 1907/2006

As product manufacturer, we are subject to article 33 of the regulation which defines a duty to inform when a candidate substance is present at more than 0.1% weight for weight.

European RoHS directives: 2015/863

Relating to the limitation of the use of 10 hazardous substances in electrical and electronic equipment (Lead, Mercury, Cadmium, Hexavalent Chromium, PBB, PBDE, Bis Phthalate, BBP, DBP, DIBP).

CFR 21: Code of Federal Regulation Title 21: Food and Drugs

This code consists of lists of prohibited substances for materials intended to come into contact with foodstuffs.

Regulation 1935/2004

This framework regulation relates to materials and objects designed to come into contact with foodstuffs. It describes specific measures per product group (Art. 5).

NSF 51: NSF/ANSI-51

Fittings and tubes complying with this standard are tested and approved by NSF for contact with drinks and foodstuffs.

NSF 61: NSF/ANSI/CAN 61

Fittings and tubes complying with this standard are tested and approved by NSF for contact with drinking water.

NSF 42 and 58: NSF/ANSI-42/58

Tubes complying with this standard are tested and approved by NSF for drinking water treatment systems.

WRAS: Water Regulations Advisory Scheme

(UK) Fittings approved by this programme are declared compliant for water supply by WRc - NSF.



Pneumatic: Push-to-Connect — Section A

- Prestolok PLP Metal Push-to-Connect Fittings
- Prestolok PLP Composite Push-to-Connect Fittings
- Oscillating Elbows
- Prestolok PLM Metal Push-to-Connect Fittings
- Prestolok PLS Stainless Steel Push-to-Connect Fittings



Pneumatic: Integrated Fittings — Section B

- Compact Flow Controls
- Miniature Flow Controls
- Swivel Outlet Flow Controls
- Plug-In Flow Controls
- In-Line Flow Controls
- Metal Flow Controls
- In-Line Check Valves
- Stainless Steel Check Valves
- Piloted Operated Check Valves
- Pneumatic Slide Valves
- Quick Exhaust Valve
- Blocking Valves
- Slow Start Valves
- Threshold Sensor Fittings
- Mini Ball Valves



Water & Beverage: Thermoplastic Fittings and Valves — Section C

- LIQUIfit Fittings
- TrueSeal™ Fittings
- Fast & Tite® Fittings
- Par-Barb® Fittings
- Thermoplastic Ball Valves



Cartridges — Section D

- Cartridges
- Carstick® Cartridges
- LIQUfit® Cartridges
- TrueSeal™ Cartridges
- PLM/PLS Cartridges
- SAE Encapsulated Cartridges



Transportation Push-to-Connect — Section E

- PTC/PTCR Composite Fittings
- PTC Brass Fittings
- Metric Prestomatic Fittings
- Parker Safe Lock



Transportation Compression Fittings & Valves — Section F

- Air Brake–NTA® Fittings
- Transmission Fittings
- Air Brake – AB Fittings
- Air Brake Hose Ends Fittings
- Vibra-Lok Fittings
- Truck Valves & Lanyard Valve



Industrial Compression Style Fittings — Section G

- Compression Fittings
- Compress-Align® Fittings
- Brass Metric Compression
- Poly-Tite Fittings
- Hi-Duty Flareless Tube Fittings



Industrial Flare Fittings — Section H

- 45° Flare Fittings
- Inverted Flare Fittings
- Access Valves

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Industrial Barbed Fittings — Section I



- Dubl-Barb® Fittings
- Hose Barb Fittings

Industrial Adapters — Section J



- Pipe Fittings
- Metric Adapters
- Nickel Plated Metric Adapters
- ISO Port Adapters
- Garden Hose Fittings

Industrial Valves — Section K



- Ball Valves Brass Series 500
- Ball Valves Brass Series 501
- Ball Valves Brass Series 502
- Ball Valve Brass Series 506
- Ball Valves Brass Series 509
- Ball Valves Brass Series 510
- Ball Valves Brass Series 520
- Ball Valves Brass Series 533
- 3-Way Diversion / Series 540 4-Way
- Ball Valves Brass Series 590/591
- Ball Valves Brass Series 500HB
- Ball Valves Brass Series 600
- Ball Valves Carbon Steel Series 500CS/502CS
- Ball Valves Carbon Steel Series 506CS
- Ball Valves Carbon Steel Series 500HP, 506HP
- Ball Valves Stainless Steel Series 501SS
- Ball Valves Stainless Steel Series 502SS
- Ball Valves Micro Series 708/709
- Ball Valves Mini Series 200/608/609
- Plug Valves Series PV
- Ball Valves Rotary Actuator Series ACT
- Ball Valve Series BVGC
- Ball Valve Series BVGL
- Ball Valve Series BVGLOCK
- Ball Valve Series MBVG
- Axial Valves
- Replacement Componentry
- Ball Valve Stem Extensions Series STX
- Needle Valves
- Drain Cocks/Ground Plug Shutoff

Accessories — Section L



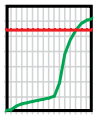
- Blow Guns
- Silencers
- Bins, Bags & Copper Tubing

Tube Fabricating Equipment — Section M



- Tube Cutters
- Kloskut Tube Cutters
- Tube Benders, Lever Type
- Metric Tube Benders
- Tube Benders, Spring Type
- Flaring Tools
- In-Ex® Tube Deburring Tool

General Technical — Section N



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	Product	Type	Body Material	Temperature		Max. Pressure		Tubing Size	
				min.	max.	psi	bar	in	mm
Pneumatic	Prestolok Metal	Push-to-Connect	Nickel Plated Brass	0˚ F (-18˚ C)	+200˚ F (+93˚ C)	300	21	1/8-1/2	4-12
	Prestolok Composite	Push-to-Connect	Glass Filled Nylon	-4˚ F (-20˚ C)	+175°F (+79°C)	290	20	1/8-1/2	3-14
	Prestolok PLM	Push-to-Connect	Nickel Plated Brass	-4˚ F (-20˚ C)	+302˚ F (+150˚ C)	435	30	5/32-1/2	4-14
	Prestolok PLS	Push-to-Connect	Stainless Steel	-4˚ F (-20˚ C)	+302˚ F (+150˚ C)	435	30	5/32-1/2	4-12
	Flow controls	Function	Nylon/Treated Brass	+30˚ F (-1˚ C)	+160˚ F (+71˚ C)	145	10	1/8-1/2	4-14
	Blocking Valves	Function	Treated Brass	-4˚ F (-20˚ C)	+160˚ F (+71˚ C)	145	10	1/8-3/8	4-14
	Slow Start Valve	Function	Nickel Plated Brass	+5˚ F (-15˚ C)	+140˚ F (+60˚ C)	150	10	1/4-3/8	4-6
	Threshold Sensor	Function	Polymer	+5˚ F (-15˚ C)	+140˚ F (+60˚ C)	115	8	5/32	4
	Check Valve	Function	Nylon/Nickel Plated Brass	+34˚ F (+1˚ C)	+150˚ F (+65˚ C)	145	10	5/32-3/8	4-12
	Slide Valves								
	Quick Exhaust Valves		Nickel-plated brass	0˚ F (-18˚ C)	+160˚ F (+71˚ C)	150	10	1/8-1/2	-
	Mini Ball Valves		Nylon	-4˚ F (-20˚ C)	+175°F (+79˚ C)	145	10		
Water & Beverage	LIQUIfit	Push-to-Connect	Bio-based Polymer	+35˚ F (1˚ C)	+200˚ F (+93˚ C)	230	16	1/4 - 1/2	4 - 12
	TrueSeal Acetal	Push-to-Connect	Acetal	-20˚ F (-29˚ C)	+180˚ F (+82˚ C)	300	21	1/4 - 1/2	-
	TrueSeal Polypropylene	Push-to-Connect	Polypropylene	0˚ F (-18˚ C)	+225˚ F (+107˚ C)	150	10	1/4 - 1/2	-
	TrueSeal Kynar	Push-to-Connect	Kynar	0˚ F (-18˚ C)	+275˚ F (+135˚ C)	300	21	1/4 - 1/2	-
	Fast & Tite Polypropylene	Compression	Polypropylene	0˚ F (-18˚ C)	+212˚ F (+100˚ C)	300	21	1/4 - 5/8	-
	Fast & Tite Nylon	Compression	Nylon	-40˚ F (-40˚ C)	+200˚ F (+93˚ C)	300	21	1/4 - 5/8	-
	Par-Barb Polypropylene	Barb	Polypropylene	0˚ F (-18˚ C)	+212˚ F (+100˚ C)	125	9	1/8 - 3/4	-
	Par-Barb Nylon	Barb	Nylon	-40˚ F (-40˚ C)	+200˚ F (+93˚ C)	125	9	1/8 - 1 1/2	-
	LIQUIfit Ball Valves	Push-to-Connect	Polypropylene	+35˚ F (1˚ C)	+200˚ F (+93˚ C)	150	10	1/4 - 3/8	-
	TrueSeal Ball Valves	Push-to-Connect	Polypropylene	0˚ F (-18˚ C)	+225˚ F (+107˚ C)	150	10	1/4 - 3/8	-

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		Product	Type	Body Material	Temperature		Max. Pressure		Tubing Size	
					min.	max.	psi	bar	in	mm
Water & Beverage		Fast and Tite Ball Valves	Compression	Polypropylene	+35˚ F (1˚ C)	+200˚ F (+93˚ C)	150	10	1/4 - 1/2	-
		Par-Barb Ball Valves	Barb	Polypropylene	+35˚ F (1˚ C)	+200˚ F (+93˚ C)	150	10	1/4 - 3/8	-
		Check Valves	Push-to-Connect	Acetal	+34˚ F (+1˚ C)	+150˚ F (+65˚ C)	150	10	1/4 - 3/8	-
Cartridges		Carstick	Push-to-Connect	Polymer	-4°F (-20°C)	+175°F (+79°C)	290	20	1/8 - 3/8	4 - 8
		PLM/PLS	Push-to-Connect	Brass/ Stainless	-4°F (-20°C)	+175°F (+79°C)	435	30	-	4 - 14
		LIQUIfit	Push-to-Connect	Polymer	+ 35°F (+1°C)	+200°F (+93°C)	230	16	1/4 - 1/2	4 - 12
		TrueSeal	Push-to-Connect	Acetal	-20°F (-29°C)	+180°F (+82°C)	150	10	1/4 - 1/2	-
		SAE Encapsulated	Push-to-Connect	Brass	-40°F (-40°C)	+200°F (+93°C)	250	17	1/4 - 5/8	-
Transportation	Push to Connect	PTC Brass Fittings	Push-to-Connect	Brass	-40˚ F (-40˚ C)	+200˚ F (+93˚ C)	250	17	5/32 - 3/4	-
		PTC/PTCR Composite Fittings	Push-to-Connect	Composite	-40˚ F (-40˚ C)	+200˚ F (+93˚ C)	250	17	1/4 - 3/4	-
		Metric Prestomatic	Push-to-Connect	Brass	-40˚ F (-40˚ C)	+200˚ F (+93˚ C)	250	17	-	4 - 16
		Parker Safe Lock			-40˚ F (-40˚ C)	+239°F (+115°C)	72	4.9		
	Compression	NTA	Compression	Brass	-40˚ F (-40˚ C)	+200˚ F (+93˚ C)	150	10	3/16 - 3/4	-
		Transmission	Compression	Brass	-40˚ F (-40˚ C)	+220˚ F (+104˚ C)	150	10	1/8 - 5/32	-
		Air Brake - AB	Compression	Brass	-65˚ F (-54˚ C)	+250˚ F (+121˚ C)	400	27	1/4 - 3/4	-
		Air Brake Hose Ends	Compression	Brass	-50˚ F (-45˚ C)	+212˚ F (+100˚ C)	225	15	3/8 - 1/2	-
		Vibra-Lok Buna N Sleeve	Compression	Brass	-30˚ F (-34˚ C)	+275˚ F (+135˚ C)	On Condition		1/8 - 3/4	-
		Vibra-Lok Fluorocarbon Sleeve	Compression	Brass	-15˚ F (-26˚ C)	+450˚ F (+232˚ C)	On Condition		1/8 - 3/4	-
		Truck Valves	Shut Off	Brass	-30˚ F (-34˚ C)	+250˚ F (+121˚ C)	150	10	3/8 - 3/4	-
		Lanyard Valve	Manual Release	Brass	-40˚ F (-40˚ C)	+200˚ F (+93˚ C)	150	10	-	-
	Cartridges & Manifolds	SAE Encapsulated Cartridge	Push-to-Connect	Brass	-40˚ F (-40˚ C)	+200˚ F (+93˚ C)	250	17	5/32 - 3/4	-
		Presto Manifold	Push-to-Connect	Glass Filled Nylon	-40˚ F (-40˚ C)	+200˚ F (+93˚ C)	150	10	1/4 - 1/2	-

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	Product		Type	Body Material	Temperature		Max. Pressure		Tubing Size	
					min.	max.	psi	bar	in	mm
Industrial Compression Style	Compression		Compression	Brass	-65˚ F (-54˚ C)	+250˚ F (+121˚ C)	2800	193	1/8 - 7/8	
	Compress-Align		Compression	Brass	-65˚ F (-54˚ C)	+250˚ F (+121˚ C)	2800	193	1/8 - 1	
	Metric Compression		Compression	Brass	-40˚ F (-40˚ C)	+482˚ F (+250˚ C)	3335	230		4 - 22
	Poly-Tite		Compression	Brass	0˚ F (-18˚ C)	+150˚ F (+65˚ C)	150	10	1/4 - 1/2	
	Hi-Duty		Compression	Brass	-65˚ F (-54˚ C)	+250˚ F (+121˚ C)	4300	296	1/8 - 5/8	
Industrial Flare Fittings	45˚ Flare		Flare	Brass	-65˚ F (-54˚ C)	+250˚ F (+121˚ C)	2800	193	1/8 - 7/8	
	Inverted Flare		Flare	Brass	-65˚ F (-54˚ C)	+250˚ F (+121˚ C)	2800	193	1/8 - 3/4	
	Acess Valves		Flare	Brass	-20˚ F (-29˚ C)	+200˚ F (+93˚ C)	500	34	1/8 - 1/2	
Industrial Barbed Fittings	Dubl-Barb	**(1/4-3/8)**	Barbed	Brass	-65˚ F (-54˚ C)	+90˚ F (+32˚ C)	150	10		
		(1/2)				+75˚ F (+24˚ C)	100	7		
	Hose Barbs		Barbed	Brass	-40˚ F (-40˚ C)	+160˚ F (+71˚ C)	150	10	1/4 - 1	
Industrial Adapters	Pipe		Threaded	Brass	-65˚ F (-54˚ C)	+250˚ F (+121˚ C)	1,000	69	1/8 - 1	
	ISO Port Adapters			Brass	Dependent on Tubing or Hose End Connection					
	Garden Hose			Brass	+35˚ F (+2˚ C)	+100˚ F (+38˚ C)	75	5		
Industrial Ball Valves	500 Series		Female/Female	Brass	0˚ F (-18˚ C)	+350˚ F (+176˚ C)	600	41		
	501 Series		Female/Male	Brass	0˚ F (-18˚ C)	+350˚ F (+176˚ C)	600	41		
	502 Series		Panel Mounted	Brass	0˚ F (-18˚ C)	+350˚ F (+176˚ C)	600	41		
	506 Series		Straight Thread	Brass	0˚ F (-18˚ C)	+350˚ F (+176˚ C)	600	41		
	509 Series		Solder Ends	Brass						
	510 Series		Male/Female Straight Thread	Brass	0˚ F (-18˚ C)	+350˚ F (+176˚ C)	600	41		
	520 Series		Female/Female	Brass	0˚ F (-18˚ C)	+350˚ F (+176˚ C)	600	41		
	533 Series		3-Way Diversion	Brass	-20˚ F (-29˚ C)	+350˚ F (+176˚ C)	400	27		

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	Product		Type	Body Material	Temperature		Max. Pressure		Tubing Size	
					min.	max.	psi	bar	in	mm
Industrial Ball Valves	540 Series		4-Way	Brass	-20˚ F (-29˚ C)	+350˚ F (+176˚ C)	400	27		
	590/591 Series		Right Angle	Brass	-50˚ F (-45˚ C)	+350˚ F (+176˚ C)	250	17		
	500HB Series		Hose Barb	Brass	0˚ F (-18˚ C)	+350˚ F (+176˚ C)	150	10		
	600 Series		Six Port Diversion	Brass	0˚ F (-18˚ C)	+250˚ F (+121˚ C)	150	10		
	500CS/502CS Series	**(¼-1)**	Female/Female	Carbon Steel	-20˚ F (-29˚ C)	+425˚ F (+218˚ C)	2,000	137		
		(1¼-2)					1,500	103		
	506CS Series		Straight Thread	Carbon Steel	-20˚ F (-29˚ C)	+425˚ F (+218˚ C)	3,000	206		
Industrial Ball Valves	500HP/506HP Series		High Pressure	Carbon Steel	-10˚ F (-23˚ C)	+210˚ F (+99˚ C)	6,000	413		
	501SS		Male/ Female	Stainless Steel	0˚ F (-18˚ C)	+400˚ F (+204˚ C)	2,000	137		
	502SS	**(¼-1)**	Female/Female	Stainless Steel	0˚ F (-18˚ C)	+400˚ F (+204˚ C)	2,000	137		
		(1¼-2)					1,500	103		
	708 Series		Male/Female	Brass	-35˚ F (-37˚ C)	+300˚ F (+148˚ C)	500	34		
	709 Series		Female/Female	Brass	-35˚ F (-37˚ C)	+300˚ F (+148˚ C)	500	34		
	200 Series		Female/Female	Chrome Plated Brass	0˚ F (-18˚ C)	+200˚ F (+93˚ C)	200	13		
	608 Series		Male/Female	Brass	0˚ F (-18˚ C)	+200˚ F (+93˚ C)	450	31		
	609 Series		Female/Female	Brass	0˚ F (-18˚ C)	+200˚ F (+93˚ C)	450	31		
	Mini Ball Valves			Nylon	-4˚ F (-20˚ C)	+175˚ F (+79˚ C)	145	10		
Plug Valves	607 Series		Male/Male	Brass	-40˚ F (-40˚ C)	+175˚ F (+79˚ C)	250	17		
	608 Series		Male/Female	Brass	-40˚ F (-40˚ C)	+175˚ F (+79˚ C)	250	17		
	609 Series		Female/Female	Brass	-40˚ F (-40˚ C)	+175˚ F (+79˚ C)	250	17		
Needle Valves/ Drain Cocks/ Ground Plug Shutoff	Needle Valves		Shutoff	Brass	-45˚ F (-42˚ C)	+250˚ F (+121˚ C)	150	10		
	Drain Cocks		External/Internal	Brass	-65˚ F (-54˚ C)	+250˚ F (+121˚ C)	150	10		
	Ground Plug Shutoff		Shutoff	Brass	+32˚ F (0˚ C)	+125˚ F (+51˚ C)	30	2		

NOTE: DO NOT ALLOW MEDIA TO FREEZE OR PRODUCT DAMAGE MAY OCCUR. REFER TO USER RESPONSIBILITY ON PAGE 0.

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Notes



PNEUMATIC: PUSH TO CONNECT

Prestolok PLP Metal, Prestolok PLP Composite, Oscillating Elbows, Prestolok PLM Metal, Prestolok PLS, Stainless Steel

Parker

PRESTOLOK PLP
Metal Push-to-Connect Fittings

Prestolok PLP metal push-to-connect fittings offers a wide variety of configurations, allowing you to find the perfect product to meet your needs, optimizing the use of your equipment.

Product Features:

- Stainless steel grab ring
- Nickel-plated brass body
- Nitrile seal
- Flame resistant release button
- Corrosion resistance
- Inch and metric tube connections
- NPT, BSPP, BSPT, and metric threads
- Meets UL94 V-0 Flame Resistance Standard

Markets:

- Industrial
- Automotive
- Climate Control
- Welding
- Robotic Welding

Compatible Media:

- Compressed Air
- Inert Gases
- Vacuum

Specifications:

Pressure Range	Up to 300 PSI (20.6 bar) depending on tubing
Temperature Range	0° to +200° F (-17.7° to 93.3° C)
Vacuum Rating	28" Hg

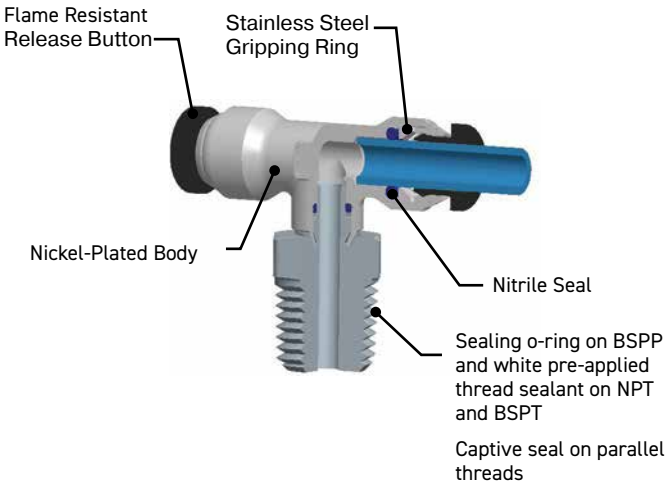
Note: Vacuum applications are dependent upon temperature and type of tubing used Maximum pressure and temperature range depend on the type of tubing used.

Compatible Tubing:

- 95FR Microweld
- Polyethylene
- Polypropylene
- Semi Rigid Nylon
- Rigid Nylon
- Polyurethane 95 Durometer Shore A

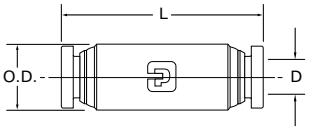
Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page 15)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.



WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

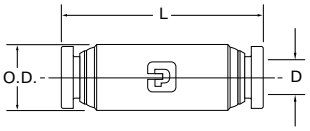




62PLP Union – Inch

Part No.	Tube Size (in)	O.D.	L	Flow Dia. D
62PLP-2	1/8	.375	1.40	.094
62PLP-3	3/16	.437	1.41	.156
62PLP-5/32	5/32	.375	1.41	.125
62PLP-4	1/4	.500	1.43	.188
62PLP-5	5/16	.562	1.65	.250
62PLP-6	3/8	.625	1.66	.312
62PLP-8	1/2	.750	1.82	.375

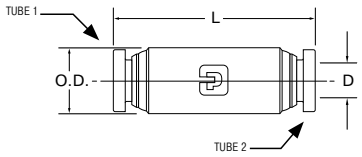




62PLP Union – Metric

Part No.	Tube Size (mm)	O.D.	L (in)	Flow Dia. D
62PLP-4M	4	9.53	35.5	3.175
62PLP-6M	6	12.70	34.4	4.775
62PLP-8M	8	14.27	41.8	6.350
62PLP-10M	10	17.46	40.9	7.925
62PLP-12M	12	19.05	40.9	9.525



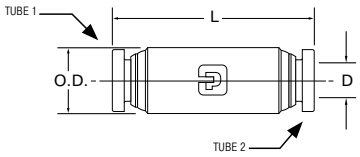


62PLP Unequal Union – Inch

Part No.	Tube 1 Size (in)	Tube 2 Size (in)	O.D.	L	Flow Dia. D
62PLP-5/32-2	5/32	1/8	.375	1.41	.094
62PLP-4-2	1/4	1/8	.500	1.43	.094
62PLP-4-5/32	1/4	5/32	.500	1.43	.125
62PLP-4-6	1/4	3/8	.625	1.66	.188
62PLP-6-8	3/8	1/2	.750	1.82	.312

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

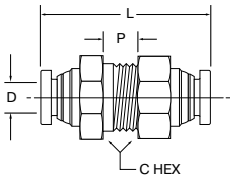




62PLP Unequal Union – Metric

Part No.	Tube 1 Size (in)	Tube 2 Size (in)	O.D.	L (mm)	Flow Dia. D
62PLP-4M-6M	4	6	12.70	34.94	4.17
62PLP-6M-8M	6	8	14.27	40.59	6.22
62PLP-8M-10M	8	10	17.46	41.36	10.26
62PLP-10M-12M	10	12	19.05	44.42	12.24

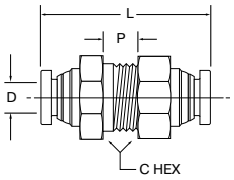




62PLPBH Bulkhead Union – Inch

Part No.	Tube Size (in)	Bulkhead Hole Dia. B	C Hex	P Max.	L	D
62PLPBH-2	1/8	7/16	9/16	.39	1.40	.094
62PLPBH-5/32	5/32	7/16	9/16	.39	1.41	.125
62PLPBH-4	1/4	9/16	11/16	.29	1.43	.188
62PLPBH-5	5/16	5/8	3/4	.60	1.65	.250
62PLPBH-6	3/8	3/4	7/8	.54	1.66	.312
62PLPBH-8	1/2	7/8	1	.66	2.04	.375



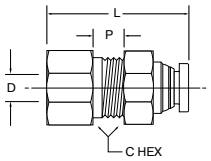


62PLPBH Bulkhead Union – Metric

Part No.	Tube Size (mm)	Bulkhead Hole Dia. B	C Hex	P Max.	L (mm)	D (mm)
62PLPBH-4M	4	11	9/16	9.68	35.49	3.175
62PLPBH-6M	6	14	11/16	7.57	34.07	4.775
62PLPBH-8M	8	16	3/4	14.67	41.79	6.350
62PLPBH-10M	10	19	7/8	11.66	40.91	7.925
62PLPBH-12M	12	22	1	14.99	50.94	9.525

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

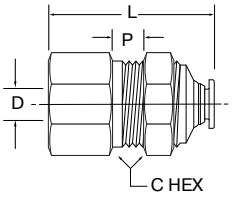




66PLPBH Female Bulkhead – NPTF

Part No.	Tube Size (in)	Pipe Thd NPTF	C Hex	P Max.	L	Flow Dia. D	Bulkhead Hole Dia.
66PLPBH-5/32-4	5/32	1/4	11/16	.19	1.39	.125	1/2
66PLPBH-4-4	1/4	1/4	11/16	.24	1.35	.188	9/16
66PLPBH-6-6	3/8	3/8	1	.22	1.47	.312	7/8
66PLPBH-8-6	1/2	3/8	1	.35	1.56	.344	7/8



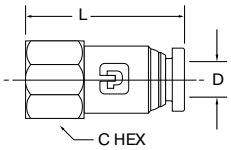


66PLPBH Female Bulkhead – BSPP

Part No.	Tube Size (mm)	Thread BSPP	C Hex	P Max.	L (mm)	Flow Dia. D	Bulkhead Hole Dia.
66PLPBH-4M-4G	4	1/4	11/16	3.81	37.85	3.175	12
66PLPBH-6M-4G	6	1/4	11/16	3.91	36.40	4.775	14
66PLPBH-10M-6G	10	3/8	1	4.93	39.50	7.925	22
66PLPBH-12M-6G	12	3/8	1	7.62	41.61	9.525	22

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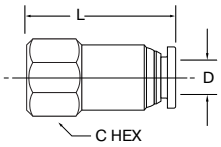




66PLP Female Connector – NPTF

Part No.	Tube Size (in)	Pipe Thread NPTF	C Hex	L	Flow Dia. D
66PLP-2-2	1/8	1/8	9/16	1.17	.094
66PLP-2-4	1/8	1/4	11/16	1.34	.094
66PLP-3-2	3/16	1/8	9/16	1.13	.156
66PLP-5/32-2	5/32	1/8	9/16	1.17	.125
66PLP-5/32-4	5/32	1/4	11/16	1.38	.125
66PLP-4-2	1/4	1/8	9/16	1.17	.188
66PLP-4-4	1/4	1/4	11/16	1.38	.188
66PLP-5-2	5/16	1/8	9/16	1.25	.250
66PLP-5-4	5/16	1/4	11/16	1.45	.250
66PLP-6-4	3/8	1/4	11/16	1.46	.312
66PLP-6-6	3/8	3/8	13/16	1.51	.312

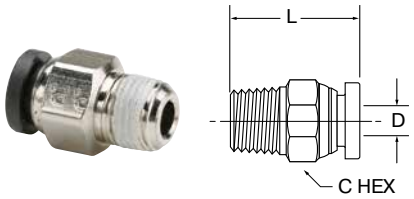




66PLP Female Connector – BSPP

Part No.	Tube Size (mm)	Thread BSPP	C Hex	L (mm)	Flow Dia. D
66PLP-4M-2G	4	1/8	9/16	30.99	3.175
66PLP-4M-4G	4	1/4	11/16	38.61	3.175
66PLP-6M-2G	6	1/8	9/16	30.05	4.775
66PLP-6M-4G	6	1/4	11/16	36.40	4.775
66PLP-8M-2G	8	1/8	9/16	33.60	6.350
66PLP-8M-4G	8	1/4	11/16	40.46	6.350
66PLP-10M-4G	10	1/4	11/16	38.23	7.925
66PLP-10M-6G	10	3/8	13/16	39.50	7.925

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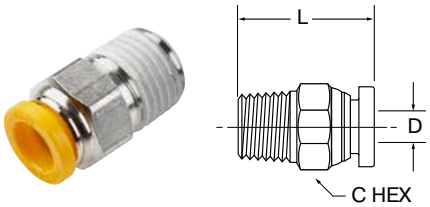


W68PLP Male Connector – NPTF

Part No.	Tube Size (in)	Pipe Thd NPTF	C Hex	I	Flow Dia. D
68PLP-2-0**	1/8	10-32	3/8	.92	.094
W68PLP-2-1	1/8	1/16	3/8	.79	.094
W68PLP-2-2	1/8	1/8	7/16	.79	.094
W68PLP-2-4	1/8	1/4	9/16	1.02	.094
W68PLP-3-2	3/16	1/8	7/16	.85	.156
W68PLP-3-4	3/16	1/4	9/16	1.01	.156
68PLP-5/32-0**	5/32	10-32	3/8	.90	.090
W68PLP-5/32-1	5/32	1/16	3/8	.88	.940
W68PLP-5/32-2	5/32	1/8	7/16	.80	.125
W68PLP-5/32-4	5/32	1/4	9/16	1.03	.125
68PLP-4-0**	1/4	10-32	1/2	.96	.094
W68PLP-4-1	1/4	1/16	1/2	1.07	.141
W68PLP-4-2	1/4	1/8	1/2	.89	.188
W68PLP-4-4	1/4	1/4	9/16	1.00	.188
W68PLP-4-6	1/4	3/8	3/4	1.04	.188
W68PLP-5-2	5/16	1/8	9/16	1.18	.250
W68PLP-5-4	5/16	1/4	9/16	1.04	.250
W68PLP-5-6	5/16	3/8	11/16	1.04	.250
W68PLP-6-2	3/8	1/8	5/8	1.21	.250
W68PLP-6-4	3/8	1/4	5/8	1.08	.312
W68PLP-6-6	3/8	3/8	11/16	1.02	.312
W68PLP-6-8	3/8	1/2	7/8	1.28	.312
W68PLP-8-4	1/2	1/4	13/16	1.44	.344
W68PLP-8-6	1/2	3/8	13/16	1.24	.344
W68PLP-8-8	1/2	1/2	7/8	1.35	.375
68PLP-5/32-4LT*	5/32	1/4-28	7/16	.88	.093

* SAE-LTThreads
** Neoprene Seal

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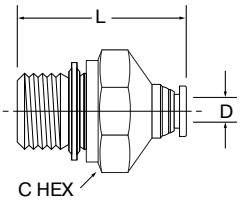


W68PLP Male Connector – BSPT

Part No.	Tube Size (mm)	Thread BSPT	C Hex	L (mm)	Flow Dia. D
W68PLP-4M-2R	4	1/8	7/16	20.41	3.175
W68PLP-4M-4R	4	1/4	9/16	27.18	3.175
W68PLP-6M-2R	6	1/8	1/2	22.00	4.775
W68PLP-6M-4R	6	1/4	9/16	26.74	4.775
W68PLP-6M-6R	6	3/8	11/16	26.46	4.775
W68PLP-8M-2R	8	1/8	9/16	29.80	6.350
W68PLP-8M-4R	8	1/4	9/16	26.24	6.350
W68PLP-8M-6R	8	3/8	11/16	27.51	6.350
W68PLP-10M-4R	10	1/4	5/8	29.72	7.925
W68PLP-10M-6R	10	3/8	11/16	27.18	7.925
W68PLP-10M-8R	10	1/2	7/8	34.24	7.925
W68PLP-12M-4R	12	1/4	13/16	36.90	8.738
W68PLP-12M-6R	12	3/8	13/16	30.85	9.525
W68PLP-12M-8R	12	1/2	7/8	33.85	9.525

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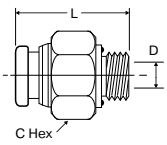


68PLP Male Connector – BSPP

Part No.	Tube Size (mm)	Thread BSPP	C Hex	L (mm)	Flow Dia. D
68PLP-4M-M5	4	M5X0.8	3/8	21.15	2.693
68PLP-4M-2G	4	1/8	9/16	23.22	3.175
68PLP-4M-4G	4	1/4	3/4	29.32	3.175
68PLP-6M-M5*	6	M5X0.8	1/2	23.39	2.80
68PLP-6M-2G	6	1/8	9/16	22.00	4.775
68PLP-6M-4G	6	1/4	3/4	28.10	4.775
68PLP-6M-6G	6	3/8	7/8	31.90	4.775
68PLP-8M-2G	8	1/8	9/16	29.67	6.350
68PLP-8M-4G	8	1/4	3/4	30.05	6.350
68PLP-8M-6G	8	3/8	7/8	35.14	6.350
68PLP-10M-4G	10	1/4	3/4	31.88	7.925
68PLP-10M-6G	10	3/8	7/8	26.80	7.925
68PLP-10M-8G	10	1/2	1 1/16	31.88	7.925
68PLP-12M-4G	12	1/4	13/16	35.76	8.738
68PLP-12M-6G	12	3/8	7/8	33.22	9.525
68PLP-12M-8G	12	1/2	1 1/16	33.47	9.525

*M5 seal is neoprene



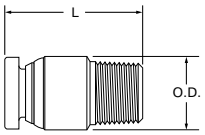


68PLP Male Connector – BSPP

Part No.	Tube Size (in)	Pipe Thd BSPP	C Hex	I	Flow Dia. D
68PLP-4-2G	1/4	1/8	11/16	.95	.188
68PLP-4-4G	1/4	1/4	3/4	.86	.188
68PLP-4-6G	1/4	3/8	7/8	.85	.188
68PLP-6-4G	3/8	1/4	3/4	1.16	.31
68PLP-6-6G	3/8	3/8	3/4	.89	.31
68PLP-6-8G	3/8	1/2	7/8	.96	.31
68PLP-8-6G	1/2	3/8	7/8	1.22	.45
68PLP-8-8G	1/2	1/2	1-1/16	1.00	.45

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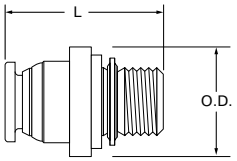


68PLPR Round Male Connector – NPTF/UNF

Part No.	Tube Size (in)	Thread Size NPTF	Internal Hex Broach	Body Dia. O.D.	L	Flow Dia.
68PLPR-2-0*	1/8	10-32	3/32	3/8"	.89	.094
68PLPR-5/32-0*	5/32	10-32	3/32	3/8"	.91	.094
68PLPR-4-0*	1/4	10-32	3/32	1/2"	.95	.094
W68PLPR-5/32-1	5/32	1/16	1/8	3/8"	.87	.125
W68PLPR-5/32-2	5/32	1/8	1/8	7/16"	.79	.125
W68PLPR-4-1	1/4	1/16	5/32	1/2"	1.06	.156
W68PLPR-4-2	1/4	1/8	3/16	1/2"	.88	.188
W68PLPR-4-4	1/4	1/4	3/16	5/8"	.99	.188

*10-32 seal is neoprene



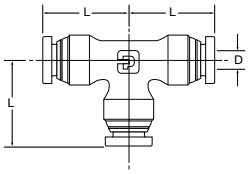


Round Male Connector – BSPP/M5

Part No.	Tube Size (mm)	Thread BSPP/M5	Internal Hex Broach	Body Dia. O.D.	L (mm)	Flow Dia.
68PLPR-4M-M5	4	M5X0.8	2.43	10.74	23.13	2.801
68PLPR-4M-2G	4	1/8	3.07	10.74	23.10	3.549
68PLPR-6M-M5*	6	M5X0.8	2.46	11.94	23.91	2.801
68PLPR-6M-2G	6	1/8	4.85	11.94	22.13	5.602
68PLPR-6M-4G	6	1/4	4.85	11.94	26.95	5.602

*M5 seal is neoprene



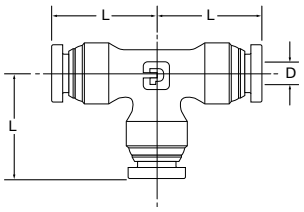


164PLP Union Tee – Inch

Part No.	Tube Size (in)	L	Flow Dia. D
164PLP-2	1/8	.74	.094
164PLP-3	3/16	.82	.156
164PLP-5/32	5/32	.77	.125
164PLP-4	1/4	.85	.188
164PLP-5	5/16	.97	.250
164PLP-6	3/8	1.01	.250
164PLP-8	1/2	1.15	.375

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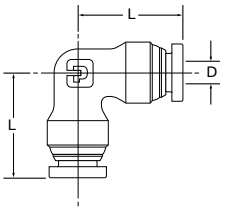




164PLP Union Tee – Metric

Part No.	Tube Size (mm)	L (mm)	Flow Dia. D
164PLP-4M	4	19.40	3.175
164PLP-6M	6	20.47	4.775
164PLP-8M	8	24.58	6.350
164PLP-10M	10	24.90	7.137
164PLP-12M	12	28.77	9.525

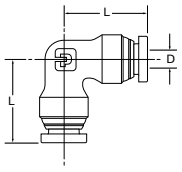




165PLP Union Elbow – Metric

Part No.	Tube Size (mm)	L (mm)	Flow Dia. D
165PLP-4M	4	19.05	3.175
165PLP-6M	6	20.14	4.775
165PLP-8M	8	24.21	6.350
165PLP-10M	10	23.75	7.925
165PLP-12M	12	27.13	9.525



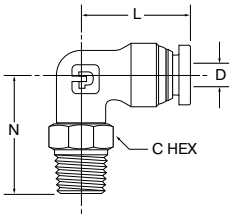


165PLP Union Elbow – Inch

Part No.	Tube Size (in)	L	Flow Dia. D
165PLP-2	1/8	.74	.094
165PLP-5/32	5/32	.77	.125
165PLP-4	1/4	.85	.188
165PLP-5	5/16	.97	.250
165PLP-6	3/8	1.01	.312
165PLP-8	1/2	1.15	.375

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov





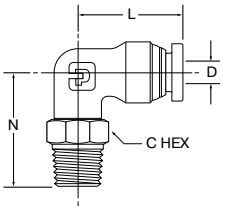
W169PLP Male Elbow Swivel 90° – NPTF

Part No.	Tube Size (in)	Pipe Thread NPTF	C Hex	L	N	Flow Dia. D
W169PLP-2-1	1/8	1/16	3/8	.74	.93	.160
W169PLP-2-2	1/8	1/8	7/16	.74	.92	.094
169PLP-2-0*	1/8	10-32	3/8	.74	.74	.080
W169PLP-2-4	1/8	1/4	9/16	.74	1.10	.094
W169PLP-3-2	3/16	1/8	7/16	.82	.92	.156
W169PLP-5/32-1	5/32	1/16	3/8	.84	.93	.160
W169PLP-5/32-2	5/32	1/8	7/16	.77	.92	.125
W169PLP-5/32-4	5/32	1/4	9/16	.77	1.10	.125
169PLP-5/32-0*	5/32	10-32	3/8	.85	.74	.080
W169PLP-4-1	1/4	1/16	3/8	.84	.93	.160
W169PLP-4-2	1/4	1/8	7/16	.85	.92	.156
W169PLP-4-4	1/4	1/4	9/16	.85	1.10	.156
W169PLP-4-6	1/4	3/8	11/16	.85	1.19	.156
169PLP-4-0*	1/4	10-32	3/8	.85	.74	.080
W169PLP-5-2	5/16	1/8	9/16	.97	1.02	.250
W169PLP-5-4	5/16	1/4	9/16	.97	1.24	.250
W169PLP-6-2	3/8	1/8	9/16	1.01	1.02	.250
W169PLP-6-4	3/8	1/4	9/16	1.01	1.24	.250
W169PLP-6-6	3/8	3/8	11/16	1.01	1.24	.250
W169PLP-6-8	3/8	1/2	7/8	1.01	1.48	.250
W169PLP-8-4	1/2	1/4	9/16	1.15	1.28	.312
W169PLP-8-6	1/2	3/8	11/16	1.15	1.31	.312
W169PLP-8-8	1/2	1/2	7/8	1.15	1.52	.312

*10-32 seal is neoprene

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

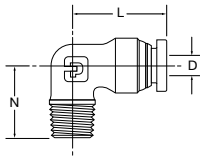




W169PLP Male Elbow Swivel 90° – BSPT

Part No.	Tube Size (mm)	Thread BSPT	C Hex	L (mm)	N (mm)	Flow Dia. D
W169PLP-4M-2R	4	1/8	7/16	19.05	23.93	3.175
W169PLP-4M-4R	4	1/4	9/16	19.05	28.50	3.962
W169PLP-6M-2R	6	1/8	7/16	19.13	22.91	3.962
W169PLP-6M-4R	6	1/4	9/16	19.13	27.48	3.962
W169PLP-6M-6R	6	3/8	11/16	19.13	29.74	3.962
W169PLP-8M-2R	8	1/8	9/16	24.20	26.16	6.350
W169PLP-8M-4R	8	1/4	9/16	24.20	31.75	6.350
W169PLP-8M-6R	8	3/8	11/16	24.20	31.75	6.350
W169PLP-10M-4R	10	1/4	9/16	23.75	31.49	6.350
W169PLP-10M-6R	10	3/8	11/16	23.75	31.75	6.350
W169PLP-10M-8R	10	1/2	7/8	23.75	37.69	6.350
W169PLP-12M-4R	12	1/4	11/16	27.63	32.86	7.950
W169PLP-12M-6R	12	3/8	11/16	27.63	33.78	9.525
W169PLP-12M-8R	12	1/2	7/8	27.63	38.96	9.525





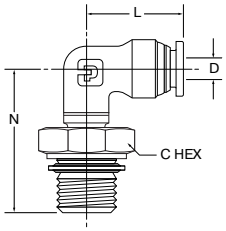
W169PLPNS Male Elbow 90° – NPTF

Part No.	Tube (in)	Pipe Thd NPTF	L	N	Flow Dia. D
W169PLPNS-2-2	1/8	1/8	.74	.67	.094
W169PLPNS5/32-2	5/32	1/8	.77	.67	.125
W169PLPNS5/32-4	5/32	1/4	.77	.87	.125
W169PLPNS-4-2	1/4	1/8	.85	.67	.188
W169PLPNS-4-4	1/4	1/4	.85	.87	.188
W169PLPNS-5-2	5/16	1/8	.97	.75	.234
W169PLPNS-5-4	5/16	1/4	.97	.94	.250
W169PLPNS-6-4	3/8	1/4	1.01	.94	.312
W169PLPNS-6-6	3/8	3/8	1.01	1.01	.312
W169PLPNS-6-8	3/8	1/2	1.01	1.27	.312
W169PLPNS-8-6	1/2	3/8	1.15	1.00	.375
W169PLPNS-8-8	1/2	1/2	1.15	1.27	.375
169PLPNS-5/32-4LT	5/32	1/4-28	.60	.48	.090

SAE-LT Threads

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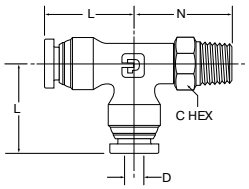


169PLP Male Elbow Swivel 90° – BSPP

Part No.	Tube Size (mm)	Thread BSPP	C Hex	L (mm)	N (mm)	Flow Dia. D
169PLP-4M-M5	4	M5X0.8	3/8	19.05	19.79	2.425
169PLP-4M-2G	4	1/8	9/16	19.05	23.92	3.175
169PLP-4M-4G	4	1/4	3/4	19.05	30.27	3.175
169PLP-6M-M5*	6	M5X0.8	3/8	19.12	18.52	2.425
169PLP-6M-2G	6	1/8	9/16	19.12	22.94	3.960
169PLP-6M-4G	6	1/4	3/4	19.12	29.23	3.960
169PLP-6M-6G	6	3/8	11/16	19.12	31.04	2.425
169PLP-8M-2G	8	1/8	9/16	24.25	27.13	6.350
169PLP-8M-4G	8	1/4	3/4	24.20	33.25	6.350
169PLP-8M-6G	8	3/8	11/16	24.25	33.22	6.350
169PLP-10M-4G	10	1/4	3/4	23.75	32.77	6.350
169PLP-10M-6G	10	3/8	11/16	23.75	32.61	6.350
169PLP-10M-8G	10	1/2	1 1/16	23.75	37.59	6.350
169PLP-12M-4G	12	1/4	3/4	26.63	35.20	7.950
169PLP-12M-6G	12	3/8	7/8	26.63	53.20	9.525
169PLP-12M-8G	12	1/2	1 1/16	26.63	38.96	9.525

*M5 seal is neoprene



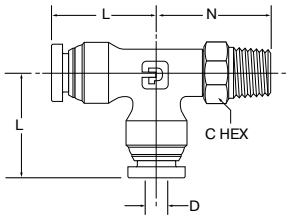


W171PLP Male Run Tee Swivel – NPTF

Part No.	Tube Size (in)	Pipe Thread NPTF	C Hex	L	N	Flow Dia. D
W171PLP-2-2	1/8	1/8	7/16	.74	.92	.094
W171PLP-5/32-2	5/32	1/8	7/16	.77	.92	.125
W171PLP-4-2	1/4	1/8	7/16	.85	.92	.156
W171PLP-4-4	1/4	1/4	9/16	.85	1.10	.156
W171PLP-4-6	1/4	3/8	11/16	.85	1.24	.156
W171PLP-5-2	5/16	1/8	9/16	.97	1.02	.250
W171PLP-5-4	5/16	1/4	9/16	.97	1.24	.250
W171PLP-6-4	3/8	1/4	9/16	1.01	1.24	.250
W171PLP-6-6	3/8	3/8	11/16	1.01	1.24	.250
W171PLP-8-6	1/2	3/8	11/16	1.15	1.31	.312
W171PLP-8-8	1/2	1/2	7/8	1.15	1.52	.312

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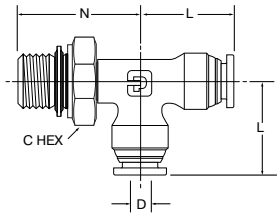




W171PLP Male Run Tee Swivel – BSPT

Part No.	Tube Size (mm)	Thread BSPT	C Hex	L (mm)	N (mm)	Flow Dia. D
W171PLP-4M-2R	4	1/8	7/16	19.05	23.95	3.17
W171PLP-4M-4R	4	1/4	9/16	19.05	28.60	3.17
W171PLP-6M-2R	6	1/8	7/16	20.90	23.92	4.77
W171PLP-6M-4R	6	1/4	9/16	20.90	28.49	4.77
W171PLP-6M-6R	6	3/8	11/16	20.90	30.78	4.77
W171PLP-8M-2R	8	1/8	9/16	24.20	26.16	6.35
W171PLP-8M-4R	8	1/4	9/16	24.20	31.75	6.35
W171PLP-8M-6R	8	3/8	11/16	24.20	31.75	6.35
W171PLP-10M-4R	10	1/4	9/16	25.52	31.75	7.13
W171PLP-10M-6R	10	3/8	11/16	25.52	31.75	7.13
W171PLP-10M-8R	10	1/2	7/8	25.52	37.84	7.13
W171PLP-12M-4R	12	1/4	11/16	29.15	32.77	9.52
W171PLP-12M-6R	12	3/8	11/16	29.15	33.52	9.52
W171PLP-12M-8R	12	1/2	7/8	29.15	38.86	9.52



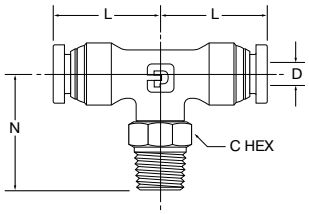


171PLP Male Run Tee Swivel – BSPP

Part No.	Tube Size (mm)	Thread BSPP	C Hex	L (mm)	N (mm)	Flow Dia. D
171PLP-4M-2G	4	1/8	9/16	19.05	24.02	3.17
171PLP-4M-4G	4	1/4	3/4	19.05	30.37	3.17
171PLP-6M-2G	6	1/8	9/16	20.90	23.92	4.77
171PLP-6M-4G	6	1/4	3/4	20.90	30.27	4.77
171PLP-6M-6G	6	3/8	7/8	20.90	32.30	4.77
171PLP-8M-2G	8	1/8	9/16	24.40	26.92	6.35
171PLP-8M-4G	8	1/4	3/4	24.20	33.02	6.35
171PLP-8M-6G	8	3/8	7/8	24.20	33.02	6.35
171PLP-10M-4G	10	1/4	3/4	25.52	33.02	7.13
171PLP-10M-6G	10	3/8	7/8	25.52	33.02	7.13
171PLP-10M-8G	10	1/2	1 1/16	25.52	37.84	7.13
171PLP-12M-4G	12	1/4	3/4	29.15	35.30	9.52
171PLP-12M-6G	12	3/8	7/8	29.15	35.30	9.52
171PLP-12M-8G	12	1/2	1 1/16	29.15	38.86	9.52

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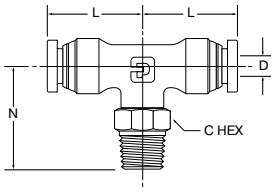




W172PLP Male Branch Tee Swivel – NPTF

Part No.	Tube Size (in)	Pipe Thread NPTF	C Hex	L	N	Flow Dia. D
W172PLP-2-2	1/8	1/8	7/16	.74	.92	.094
W172PLP-3-2	3/16	1/8	7/16	.82	.92	.156
W172PLP-5/32-2	5/32	1/8	7/16	.77	.92	.125
172PLP-4-0	1/4	10-32	3/8	.84	.80	.250
W172PLP-4-2	1/4	1/8	7/16	.85	.92	.156
W172PLP-4-4	1/4	1/4	9/16	.85	1.10	.156
W172PLP-4-6	1/4	3/8	11/16	.85	1.10	.156
W172PLP-5-2	5/16	1/8	9/16	.97	1.02	.250
W172PLP-5-4	5/16	1/4	9/16	.97	1.24	.250
W172PLP-6-4	3/8	1/4	9/16	1.01	1.24	.250
W172PLP-6-6	3/8	3/8	11/16	1.01	1.24	.250
W172PLP-6-8	3/8	1/2	7/8	1.00	1.48	.250
W172PLP-8-4	1/2	1/4	9/16	1.15	1.30	.312
W172PLP-8-6	1/2	3/8	11/16	1.15	1.31	.312
W172PLP-8-8	1/2	1/2	7/8	1.15	1.52	.312



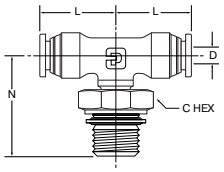


W172PLP Male Branch Tee Swivel – BSPT

Part No.	Tube Size (mm)	Thread BSPT	C Hex	L (mm)	N (mm)	Flow Dia. D
W172PLP-4M-2R	4	1/8	7/16	19.05	24.35	3.17
W172PLP-4M-4R	4	1/4	9/16	19.05	28.93	3.17
W172PLP-6M-2R	6	1/8	7/16	21.15	23.92	3.96
W172PLP-6M-4R	6	1/4	9/16	21.15	28.49	3.96
W172PLP-6M-6R	6	3/8	11/16	21.15	30.78	3.96
W172PLP-8M-2R	8	1/8	9/16	24.20	26.56	6.35
W172PLP-8M-4R	8	1/4	9/16	24.20	32.15	6.35
W172PLP-8M-6R	8	3/8	11/16	24.20	32.15	6.35
W172PLP-10M-4R	10	1/4	9/16	25.53	32.14	7.14
W172PLP-10M-6R	10	3/8	11/16	25.53	32.14	7.14
W172PLP-10M-8R	10	1/2	7/8	25.53	32.24	7.14
W172PLP-12M-4R	12	1/4	9/16	28.65	33.02	9.53
W172PLP-12M-6R	12	3/8	11/16	28.65	33.78	9.53
W172PLP-12M-8R	12	1/2	7/8	28.65	39.11	9.53

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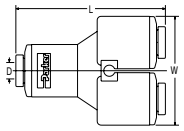




172PLP Male Branch Tee Swivel – BSPP

Part No.	Tube Size (mm)	Thread BSPP	C Hex	L (mm)	N (mm)	Flow Dia. D
172PLP-4M-2G	4	1/8	9/16	19.05	24.35	3.17
172PLP-4M-4G	4	1/4	3/4	19.05	30.70	3.17
172PLP-6M-2G	6	1/8	9/16	21.15	23.92	3.96
172PLP-6M-4G	6	1/4	3/4	21.15	30.27	3.96
172PLP-6M-6G	6	3/8	7/8	21.15	32.30	3.96
172PLP-8M-2G	8	1/8	9/16	24.20	27.33	6.35
172PLP-8M-4G	8	1/4	3/4	24.20	33.42	6.35
172PLP-8M-6G	8	3/8	7/8	24.20	33.42	6.35
172PLP-10M-4G	10	1/4	3/4	25.52	33.42	6.35
172PLP-10M-6G	10	3/8	7/8	25.52	33.42	6.35
172PLP-10M-8G	10	1/2	1 1/16	25.52	38.25	6.35
172PLP-12M-4G	12	1/4	3/4	28.65	35.56	7.95
172PLP-12M-6G	12	3/8	7/8	28.65	35.56	9.52
172PLP-12M-8G	12	1/2	1 1/16	28.65	39.11	9.52

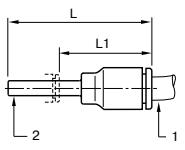




362PW – Union Y (PVDF) – Inch

Part No.	Tube Size (in)	Tube Size (in)	L (in)	W (in)	Flow Dia. D
362PW-4	1/4	1/4	2.100	1.43	0.190
362PW-4-6	3/8	1/4	2.100	1.43	0.190
362PW-6	3/8	3/8	2.175	1.75	0.250
362PW-6-8	1/2	3/8	2.370	1.93	0.250
362PW-8	1/2	1/2	2.370	1.93	0.380



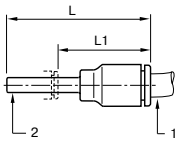


62PLPSP – Tube Expander – Inch

Part No.	1 Tube Size (in)	2 Tube Size (in)	L (in)	L1 (in)
62PLPSP-4-5/32	1/4	5/32	1.39	.71
62PLPSP-6-4	3/8	1/4	1.66	.89

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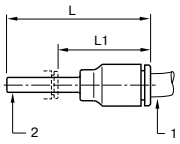




62PLPSP – Tube Expander – Metric

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	L (mm)	L1 (mm)
62PLPSP-10M-8M	10	8	42.7	21.2
62PLPSP-12M-10M	12	10	48.5	24
62PLPSP-6M-4M	6	4	33	21
62PLPSP-8M-6M	8	6	39.6	26.1

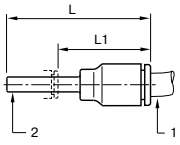




67PLP – Tube Reducer – Inch

Part No.	1 Tube Size (in)	2 Tube Size (in)	L (in)	L1 (in)
67PLP-5/32-4	5/32	1/4	1.46	.81
67PLP-5/32-6	5/32	3/8	1.67	1.02
67PLP-5-6	5/16	3/8	1.83	1.06
67PLP-5-8	5/16	1/2	1.97	1.2
67PLP-4-6	1/4	3/8	1.75	1.07
67PLP-4-8	1/4	1/2	1.85	1.17
67PLP-6-8	3/8	1/2	1.97	1.2

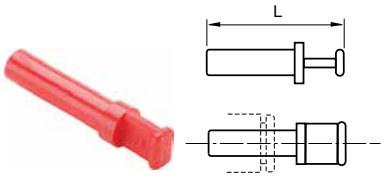




67PLP – Tube Reducer – Metric

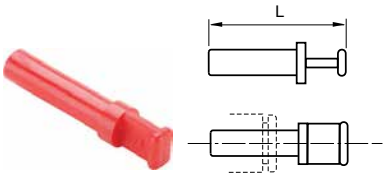
Part No.	1 Tube Size (mm)	2 Tube Size (mm)	L (mm)	L1 (mm)
67PLP-10M-12M	10	12	48.8	25.8
67PLP-4M-10M	4	10	37.6	16.1
67PLP-4M-6M	4	6	34.5	24.5
67PLP-4M-8M	4	8	40.1	21.6
67PLP-6M-10M	6	10	41.4	20.9
67PLP-6M-12M	6	12	44.2	21.2
67PLP-6M-8M	6	8	38.6	23.1
67PLP-8M-10M	8	10	47	26.5
67PLP-8M-12M	8	12	49.3	24.8

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



639PLP Plug Inch

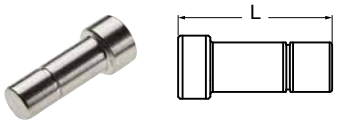
Part No.	Tube Size	L
639PLP-2	1/8	1.30
639PLP-3	3/16	1.36
639PLP-4	1/4	1.44
639PLP-6	3/8	1.67
639PLP-8	1/2	1.91



639PLP Plug Metric

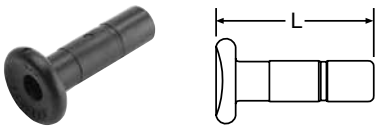
Part No.	Tube Size	L
639PLP-3M	3	25
639PLP-4M	4	30
639PLP-6M	6	33
639PLP-8M	8	33
639PLP-10M	10	42
639PLP-12M	12	45
639PLP-14M	14	49
639PLP-16M*	16	57

* Nickel Plated Brass



139PLP – Plug – Metric

Part No.	Tube Size (mm)	L (in)
139PLP-6M	6	.92
139PLP-8M	5/16 (8mm)	1.10
139PLP-10M	10	1.22
139PLP-12M	12	1.34



TPL – Plug (PVDF) – Inch

Part No.	Tube Size (in)	L (in)
FB4TPL	1/4	.88
139PLP-8M	5/16	1.10
FB6TPL	3/8	1.45
FB8TPL	1/2	1.50



DB – Dust/Weld Spatter Boot

Part No.	Tube Size (in)	L (in)	D (in)
DB-4	1/4 (6mm)	.50	.40
DB-6	3/8 (10mm)	.50	.63
DB-8	1/2 (12mm)	.50	.75

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Tube Cutter

Part No.	Description
3000 71 11	Tube cutter for tubing and push-on hose. for hoses up to 1" (25mm). Weight: 1.09oz.
3000 71 11 05	Replacement Blades



Tube Cutter

Part No.	Description
PTC-001	Plastic Tube Cutter – May be used with polyethylene, polypropylene, nylon, and other thermoplastic tubing. For tube O.D. sizes 1/8" to 1/2"
PTC-001RB	Replacement Blades



Quick Release Tool

Part No.	Description
AQRT	Quick release tool makes disconnection of tube adapters and tubing a breeze.



0139 Bi-Material Captive Sealing Washer BSPP

Part No.	C BSPP	G (mm)	G2 (mm)	K (mm)	WT. oz
0139 10 00	G1/8	14	1	1.8	.001
0139 13 00	G1/4	17	1	1.8	.001
0139 17 00	G3/8	22	1.3	2.1	.001
0139 21 00	G1/2	26	1.6	2.4	.002

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PRESTOLOK PLP
Composite Push-to-Connect Fittings

Prestolok push-to-connect composite fittings with its wide variety configurations allows you to find the perfect product to meet your needs, optimizing the use of your equipment.

Product Features:

- Stainless steel grab ring
- Glass-reinforced nylon 6.6 body
- Nitrile seal
- Nylon release button
- Corrosion and chemical resistance
- NPT, BSPT, BSPP, and metric threads
- Silicone Free

Markets:

- Pneumatic
- Industrial
- Robotic
- Automation
- Printing
- Packaging
- Textile

Compatible Media:

- Compressed Air
- Inert Gases
- Vacuum

Specifications:

Pressure Range	Up to 290 PSI (19.9 bar) depending on tubing
(3/16" size only)	Up to 260 PSI (17.9 bar) depending on tubing
Temperature Range	-4° to +175° F (-20° to +79.4° C)
(3/16" size only)	5° to +155° F (-15° to +68.3° C)
Vacuum Rating	28" Hg

Compatible Tubing:

- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A*
- Nylon
- Fluoropolymer
- Polyethylene

Assembly Instructions

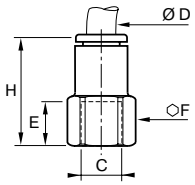
1. Cut tubing squarely maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.



*Tube Support Required

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

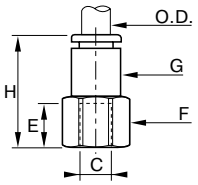




66LF Female Connector – BSPP

Part No.	Tube Size (mm)	Thread BSPP	E (mm)	F (mm)	H (mm)
66LF-4M-M5	4	M5X0.8	6.5	8	19.5
66LF-4M-2G	4	1/8	9.5	13	22.5
66LF-4M-4G	4	1/4	13.5	16	26.5
66LF-6M-2G	6	1/8	9.5	13	24.5
66LF-6M-4G	6	1/4	13.5	16	28.5
66LF-8M-2G	8	1/8	9.5	13	29.0
66LF-8M-4G	8	1/4	13.5	16	33.0
66LF-8M-6G	8	3/8	14.0	19	34.0
66LF-10M-4G	10	1/4	13.5	16	36.0
66LF-10M-6G	10	3/8	14.0	19	36.0
66LF-10M-8G	10	1/2	19.5	24	41.5
66LF-12M-4G	12	1/4	14.0	19	39.5
66LF-12M-6G	12	3/8	14.0	19	40.0
66LF-12M-8G	12	1/2	19.5	24	45.5
66LF-14M-6G	14	3/8	14.0	22	42.5
66LF-16M-8G	16	1/2	15.0	27	49.0

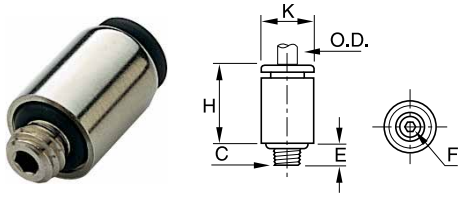




66LF Female Connector – NPT

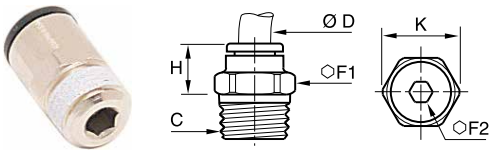
Part No.	Tube Size (in)	Thread NPT	F (mm)	G (in)	H (in)	E (in)
66LF-2-2	1/8	1/8	13	.43	.87	.37
66LF-2-4	1/8	1/4	16	.43	1.05	.55
66LF-4M-2	5/32 (4mm)	1/8	13	.35	.89	.37
66LF-4M-4	5/32 (4mm)	1/4	16	.33	1.06	.55
66LF-4-2	1/4	1/8	13	.42	.98	.37
66LF-4-4	1/4	1/4	16	.42	1.16	.55
66LF-8M-2	5/16 (8mm)	1/8	13	.53	1.14	.37
66LF-8M-4	5/16 (8mm)	1/4	16	.53	1.32	.55
66LF-6-2	3/8	1/8	16	.61	1.22	.37
66LF-6-4	3/8	1/4	16	.61	1.40	.55
66LF-6-6	3/8	3/8	22	.61	1.52	.65
66LF-8-4	1/2	1/4	20	.84	1.73	.47
66LF-8-6	1/2	3/8	22	.85	1.81	.65
66LF-8-8	1/2	1/2	24	.85	1.93	.77

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



68LFR Male Connector – UNF

Part No.	Tube Size (in)	C UNF	E (in)	F (mm)	H (in)	K (in)
68LFR-2-0	1/8	10-32	.13	2.0	.49	.32
68LFR-4M-0	5/32 (4mm)	10-32	.13	2.0	.54	.34
68LFR-4-0	1/4	10-32	.13	2.0	.64	.46
68LFR-4-M5	1/4	M5	.14	2.5	.65	.41
68LFR-4-M7	1/4	M7	.18	4.0	.65	.41

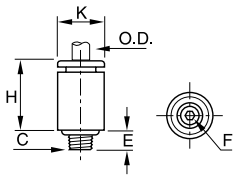


W68LF Male Connector – NPT

Part No.	Tube Size (in)	C NPT	F1 (mm)	F2 (in)	H (in)	K (in)
W68LF-2-1	1/8	1/16	10	.07	.413	.433
W68LF-2-2	1/8	1/8	11	.07	.283	.472
W68LF-2-4	1/8	1/4	14	.07	.315	.591
W68LF-4M-2	5/32 (4mm)	1/8	11	.11	.334	.472
W68LF-4M-4	5/32 (4mm)	1/4	14	.11	.275	.590
W68LF-4-2	1/4	1/8	11	.16	.472	.472
W68LF-4-4	1/4	1/4	14	.16	.374	.590
W68LF-4-6	1/4	3/8	18	.19	.295	.767
W68LF-8M-2	5/16 (8mm)	1/8	13	.19	.787	.551
W68LF-8M-4	5/16 (8mm)	1/4	14	.25	.661	.590
W68LF-8M-6	5/16 (8mm)	3/8	18	.25	.464	.767
W68LF-6-2	3/8	1/8	16	.16	.894	.689
W68LF-6-4	3/8	1/4	16	.28	.807	.689
W68LF-6-6	3/8	3/8	18	.28	.689	.767
W68LF-6-8	3/8	1/2	22	.28	.610	.945
W68LF-8-4	1/2	1/4	22	.25	1.100	.945
W68LF-8-6	1/2	3/8	22	.28	1.100	.945
W68LF-8-8	1/2	1/2	22	.28	1.100	.945

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

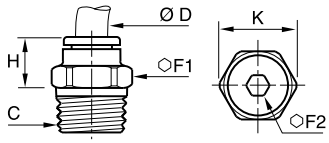




68LFR Male Connector Metric Straight Thread

Part No.	Tube Size (mm)	C UNF	E (mm)	F (mm)	H (mm)	K (mm)
68LFR-4M-M7	4	M7X1	4.6	3	14	9.95
68LFR-4M-M5	4	M5X0.8	3.5	2.5	14.5	8.50
68LFR-6M-M7	6	M7X1	4.6	3	16	9.90

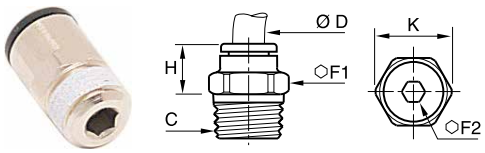




W68LF Male Connector – BSPT

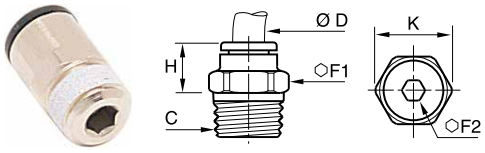
Part No.	Tube Size (in)	C BSPT	F1 mm	F2 mm	H (in)	K (in)
W68LF-2-2R	1/8	1/8	10	2	.335	.433
W68LF-5/32-2R	5/32	1/8	10	3	.370	.430
W68LF-5/32-4R	5/32	1/4	14	3	.260	.590
W68LF-3-2R	3/16	1/8	11	3	.610	.510
W68LF-3-4R	3/16	1/4	14	3	.590	.650
W68LF-4-2R	1/4	1/8	11	4	.472	.472
W68LF-4-4R	1/4	1/4	14	4	.374	.591
W68LF-5-2R	5/16	1/8	13	5	.790	.550
W68LF-5-4R	5/16	1/4	14	6	.670	.590
W68LF-5-6R	5/16	3/8	17	6	.510	.730
W68LF-5-8R	5/16	1/2	21	6	.470	.910
W68LF-6-4R	3/8	1/4	16	7	.807	.689
W68LF-6-6R	3/8	3/8	17	7	.650	.728
W68LF-6-8R	3/8	1/2	21	7	.551	.906
W68LF-8-4R	1/2	1/4	22	6	1.060	.945
W68LF-8-6R	1/2	3/8	22	7	1.020	.945
W68LF-8-8R	1/2	1/2	24	7	.807	1.020

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



W68LF Male Connector Metric to NPT

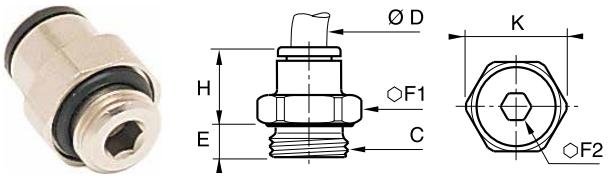
Part No.	Tube Size (mm)	C NPT	F1 (mm)	F2 (in)	H (in)	K (in)
W68LF-4M-2	4	1/8	11	3	.33	.47
W68LF-4M-4	4	1/4	14	3	.28	.59
W68LF-6M-2	6	1/8	11	4	.45	.47
W68LF-6M-4	6	1/4	14	4	.33	.59
W68LF-8M-2	8	1/8	13	5	.79	.55
W68LF-8M-4	8	1/4	14	6	.66	.59
W68LF-8M-6	8	3/8	18	6	.46	.77
W68LF-10M-4	10	1/4	16	7	.79	.69
W68LF-10M-6	10	3/8	18	8	.65	.77
W68LF-10M-8	10	1/2	22	8	.55	.95
W68LF-12M-6	12	3/8	19	9	.95	.83
W68LF-12M-8	12	1/2	22	10	.77	.95



W68LF Male Connector Metric to BSPT

Part No.	Tube Size (mm)	C BSPT	F1 (mm)	F2 (mm)	H (mm)	K (mm)
W68LF-4M-2R	4	1/8	10	3	9.5	11.0
W68LF-4M-4R	4	1/4	14	3	6.5	15.0
W68LF-4M-6R	4	3/8	17	3	8.0	18.5
W68LF-6M-2R	6	1/8	11	4	11.5	11.0
W68LF-6M-4R	6	1/4	14	4	8.5	15.0
W68LF-6M-6R	6	3/8	17	4	8.5	18.5
W68LF-6M-8R	6	1/2	21	4	9.0	23.0
W68LF-8M-2R	8	1/8	13	5	20.0	14.0
W68LF-8M-4R	8	1/4	14	6	17.0	15.0
W68LF-8M-8R	8	1/2	21	6	12.0	23.0
W68LF-10M-2R	10	1/8	16	5	22.5	17.5
W68LF-10M-4R	10	1/4	16	7	20.0	17.5
W68LF-10M-6R	10	3/8	17	8	16.5	18.5
W68LF-10M-8R	10	1/2	21	8	14.0	23.0
W68LF-12M-4R	12	1/4	19	7	26.5	21.0
W68LF-12M-6R	12	3/8	19	9	24.0	21.0
W68LF-12M-8R	12	1/2	21	9	19.5	23.0
W68LF-14M-6R	14	3/8	22	9	28.5	24.0
W68LF-14M-8R	14	1/2	24	10	23.5	26.0

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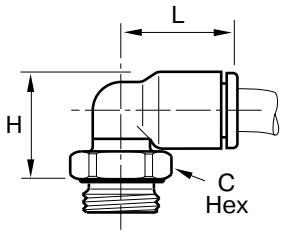


68LF Male Connector Metric to BSPP

Part No.	Tube Size (mm)	C BSPP	E (mm)	F1 mm	F2 mm	H (mm)	K (mm)
68LF 3M-M3	3	M3X0.5	2.50	8	-	12.5	8.5
68LF-3M-M5	3	M5X0.8	3.50	8	2.5	12.5	8.5
68LF-4M-M3	4	M3X0.5	2.50	8	-	14.5	8.5
68LF-4M-M5	4	M5X0.8	3.50	8	2.5	14.0	8.5
68LF-4M-M7	4	M7X1	5.00	10	2.5	14.0	11.0
68LF-4M-2G	4	1/8	4.50	13	3.0	11.5	14.0
68LF-4M-4G	4	1/4	5.50	16	3.0	10.5	17.5
68LF-6M-M5	6	M5X0.8	3.50	10	2.5	16.0	11.0
68LF-6M-M7	6	M7X1	5.00	10	3.0	16.0	11.0
68LF-6M-M10	6	M10X1	5.00	13	4.0	13.0	14.0
68LF-6M-M12	6	M12X1.5	5.50	15	4.0	13.0	16.0
68LF-6M-2G	6	1/8	4.50	13	4.0	13.0	14.0
68LF-6M-4G	6	1/4	5.50	16	4.0	12.5	17.5
68LF-6M-6G	6	3/8	5.50	20	4.0	13.0	22.0
68LF-6M-8G	6	1/2	7.50	24	4.0	20.0	26.0
68LF-8M-M10	8	M10X1	5.00	13	5.0	21.0	14.0
68LF-8M-M12	8	M12X1.5	5.50	15	5.0	21.0	16.0
68LF-8M-2G	8	1/8	4.50	13	5.0	20.5	14.0
68LF-8M-4G	8	1/4	5.50	16	6.0	19.5	17.5
68LF-8M-6G	8	3/8	5.50	20	6.0	18.0	22.0
68LF-8M-8G	8	1/2	7.50	24	6.0	16.5	26.0
68LF-10M-4G	10	1/4	5.50	16	7.0	23.0	17.5
68LF-10M-6G	10	3/8	5.50	20	8.0	19.5	22.0
68LF-10M-8G	10	1/2	7.50	24	8.0	18.5	26.0
68LF-12M-4G	12	1/4	5.50	19	7.0	27.5	21.0
68LF-12M-6G	12	3/8	5.50	20	9.0	27.0	22.0
68LF-12M-8G	12	1/2	7.00	24	10.0	22.5	26.0
68LF-14M-6G	14	3/8	5.50	22	9.0	29.5	24.0
68LF-14M-8G	14	1/2	7.00	24	11.0	28.0	26.0

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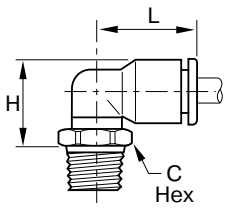


369PLP Male Elbow - BSPP

Part No.	Tube Size (mm)	BSPP / Metric	C Hex (mm)	H	L
369PLP-3M-M3	3	M3X0.5	8	15.0	14.5
369PLP-3M-M5	3	M5X0.8	8	13.5	14.5
369PLP-4M-M3	4	M3X0.5	8	15.0	14.5
369PLP-4M-M5	4	M5X0.8	8	13.5	14.0
369PLP-4M-2G	4	1/8	13	13.0	14.0
369PLP-4M-4G	4	1/4	16	13.0	14.0
369PLP-6M-M5	6	M5X0.8	8	15.5	16.0
369PLP-6M-M7	6	M7X1	10	17.5	16.0
369PLP-6M-M10	6	M10X1	13	15.0	14.0
369PLP-6M-M12	6	M12X1.5	15	15.0	16.0
369PLP-6M-2G	6	1/8	13	15.0	16.0
369PLP-6M-4G	6	1/4	16	15.0	16.0
369PLP-6M-6G	6	3/8	20	15.5	16.0
369PLP-6M-8G	6	1/2	24	16.0	16.0
369PLP-8M-M10	8	M10X1	13	20.5	23.0
369PLP-8M-M12	8	M12X1.5	15	19.5	23.0
369PLP-8M-2G	8	1/8	13	20.5	23.0
369PLP-8M-4G	8	1/4	16	18.5	23.0
369PLP-8M-6G	8	3/8	20	18.5	23.0
369PLP-8M-8G	8	1/2	24	19.0	23.0
369PLP-10M-4G	10	1/4	16	23.5	26.5
369PLP-10M-6G	10	3/8	20	22.0	26.5
369PLP-10M-8G	10	1/2	24	22.0	26.5
369PLP-12M-4G	12	1/4	16	26.5	31.0
369PLP-12M-6G	12	3/8	20	25.0	31.0
369PLP-12M-8G	12	1/2	24	25.0	31.0
369PLP-14M-6G	14	3/8	20	32.5	35.5
369PLP-14M-8G	14	1/2	24	27.0	35.5
369PLP-16M-6G	16	3/8	27	54.5	39
369PLP-16M-8G	16	1/2	27	54.5	39

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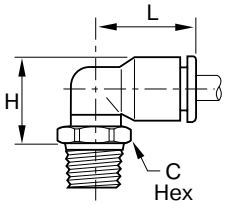


W369PLP Male Elbow - NPT

Part No.	Tube Size (in)	Thread NPT / UNF	C Hex (mm)	L	H
369PLP-2-0	1/8	10-32	8	.57	.52
W369PLP-2-1	1/8	1/16	10	.57	.53
W369PLP-2-2	1/8	1/8	11	.57	.53
W369PLP-2-4	1/8	1/4	14	.57	.55
369PLP-4M-0	5/32 (4mm)	10-32	8	.55	.53
W369PLP-4M-2	5/32 (4mm)	1/8	11	.55	.53
W369PLP-4M-4	5/32 (4mm)	1/4	14	.55	.55
W369PLP-3-2	3/16	1/8	11	.85	.67
369PLP-4-0	1/4	10-32	11	.71	.63
W369PLP-4-2	1/4	1/8	11	.71	.67
W369PLP-4-4	1/4	1/4	14	.71	.63
W369PLP-4-6	1/4	3/8	18	.71	.65
W369PLP-8M-2	5/16 (8mm)	1/8	11	.91	.75
W369PLP-8M-4	5/16 (8mm)	1/4	14	.91	.71
W369PLP-8M-6	5/16 (8mm)	3/8	18	.91	.73
W369PLP-6-2	3/8	1/8	15	1.08	.91
W369PLP-6-4	3/8	1/4	15	1.08	.91
W369PLP-6-6	3/8	3/8	18	1.08	.87
W369PLP-6-8	3/8	1/2	22	1.08	.91
W369PLP-8-4	1/2	1/4	20	1.38	1.22
W369PLP-8-6	1/2	3/8	20	1.38	1.22
W369PLP-8-8	1/2	1/2	24	1.38	1.12

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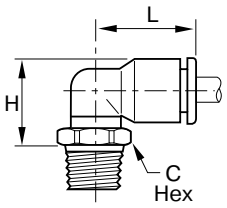




W369PLP Male Elbow - BSPT

Part No.	Tube Size (in)	Thread BSPT	C Hex (mm)	L	H
W369PLP-2-2R	1/8	1/8	10	.57	.53
W369PLP-4M-2R	5/32 (4mm)	1/8	10	.55	.53
W369PLP-4M-4R	5/32 (4mm)	1/4	14	.55	.55
W369PLP-3-2R	3/16	1/8	11	.85	.67
W369PLP-4-2R	1/4	1/8	10	.71	.67
W369PLP-4-4R	1/4	1/4	14	.71	.63
W369PLP-8M-2R	5/16 (8mm)	1/8	10	.91	.75
W369PLP-8M-4R	5/16 (8mm)	1/4	14	.91	.71
W369PLP-8M-6R	5/16 (8mm)	3/8	17	.91	.71
W369PLP-8M-8R	5/16 (8mm)	1/2	21	.91	.77
W369PLP-6-4R	3/8	1/4	15	1.04	.87
W369PLP-6-6R	3/8	3/8	17	1.04	.87
W369PLP-8-4R	1/2	1/4	20	1.38	1.22
W369PLP-8-6R	1/2	3/8	20	1.38	1.22
W369PLP-8-8R	1/2	1/2	24	1.38	1.12



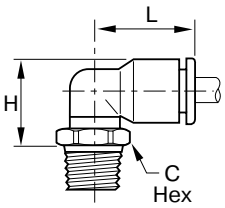


W369PLP Male Elbow - NPT

Part No.	Tube Size (mm)	Thread NPT	C Hex (mm)	H	L
W369PLP-4M-2	4	1/8	11	.53	.55
W369PLP-4M-4	4	1/4	14	.55	.55
W369PLP-6M-2	6	1/8	11	.61	.63
W369PLP-6M-4	6	1/4	14	.63	.63
W369PLP-8M-2	8	1/8	11	.75	.91
W369PLP-8M-4	8	1/4	14	.71	.91
W369PLP-8M-6	8	3/8	18	.73	.91
W369PLP-10M-4	10	1/4	15	.91	1.04
W369PLP-10M-6	10	3/8	18	.87	1.04
W369PLP-10M-8	10	1/2	22	.91	1.04
W369PLP-12M-6	12	3/8	18	.98	1.22
W369PLP-12M-8	12	1/2	22	1.02	1.22

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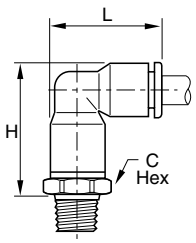


W369PLP Male Elbow - BSPT

Part No.	Tube Size (mm)	Thread BSPT	C Hex (mm)	H	L
W369PLP-4M-2R	4	1/8	10	13.5	14.0
W369PLP-4M-4R	4	1/4	14	14.0	14.0
W369PLP-4M-6R	4	3/8	17	13.5	14.0
W369PLP-6M-2R	6	1/8	10	15.5	16.0
W369PLP-6M-4R	6	1/4	14	16.0	16.0
W369PLP-6M-6R	6	3/8	17	16.0	16.0
W369PLP-6M-8R	6	1/2	21	16.5	16.0
W369PLP-8M-2R	8	1/8	10	19.0	23.0
W369PLP-8M-4R	8	1/4	14	18.0	23.0
W369PLP-8M-6R	8	3/8	17	18.0	23.0
W369PLP-8M-8R	8	1/2	21	19.5	23.0
W369PLP-10M-2R	10	1/8	15	23.0	26.5
W369PLP-10M-4R	10	1/4	15	22.0	26.5
W369PLP-10M-6R	10	3/8	17	22.0	26.5
W369PLP-10M-8R	10	1/2	21	22.0	26.5
W369PLP-12M-4R	12	1/4	15	25.0	31.0
W369PLP-12M-6R	12	3/8	17	25.0	31.0
W369PLP-12M-8R	12	1/2	21	25.0	31.0
W369PLP-14M-6R	14	3/8	20	30.5	35.5
W369PLP-14M-8R	14	1/2	24	28.5	35.5
W369PLP-16M-6R	16	3/8	27	53	39.0
W369PLP-16M-8R	16	1/2	27	53	39.0

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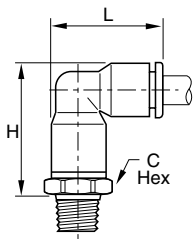


W369PLPX Extended Male Elbow - NPT

Part No.	Tube Size (in)	Thread NPT / UNF	C Hex (mm)	H	L
369PLPX-2-0	1/8	10-32	8	.91	.75
W369PLPX-2-2	1/8	1/8	11	.91	.75
W369PLPX-2-4	1/8	1/4	14	.93	.75
369PLPX-4M-0	5/32 (4mm)	10-32	8	.91	.75
W369PLPX-4M-2	5/32 (4mm)	1/8	11	.91	.75
W369PLPX-4M-4	5/32 (4mm)	1/4	14	.93	.75
369PLPX-4-0	1/4	10-32	11	1.10	.93
369PLPX-4-M7	1/4	M7	9	1.17	.93
W369PLPX-4-2	1/4	1/8	11	1.12	.93
W369PLPX-4-4	1/4	1/4	14	1.08	.93
W369PLPX-4-6	1/4	3/8	17	1.12	.93
W369PLPX-8M-2	5/16 (8mm)	1/8	13	1.32	1.16
W369PLPX-8M-4	5/16 (8mm)	1/4	14	1.28	1.16
W369PLPX-6-2	3/8	1/8	17	1.40	1.34
W369PLPX-6-4	3/8	1/4	17	1.41	1.33
W369PLPX-6-6	3/8	3/8	18	1.45	1.33

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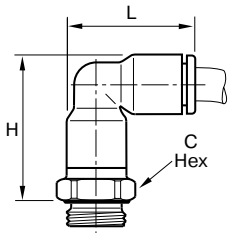


W369PLPX Extended Male Elbow - BSPT

Part No.	Tube Size (mm)	Thread BSPT	C Hex (mm)	H	L
W369PLPX-4M-2R	4	1/8	10	23.0	19.0
W369PLPX-4M-4R	4	1/4	14	23.5	19.0
W369PLPX-6M-2R	6	1/8	10	27.0	22.5
W369PLPX-6M-4R	6	1/4	14	27.5	22.5
W369PLPX-8M-2R	8	1/8	13	34.5	29.5
W369PLPX-8M-4R	8	1/4	14	32.5	29.5
W369PLPX-8M-6R	8	3/8	17	33.0	29.5
W369PLPX-10M-4R	10	1/4	15	39.5	34.5
W369PLPX-10M-6R	10	3/8	17	39.5	34.5
W369PLPX-10M-8R	10	1/2	21	39.5	34.5
W369PLPX-12M-4R	12	1/4	19	45.5	40.5
W369PLPX-12M-6R	12	3/8	19	45.5	40.5
W369PLPX-12M-8R	12	1/2	21	45.5	40.5
W369PLPX-14M-6R	14	3/8	21	51.5	46.5
W369PLPX-14M-8R	14	1/2	21	51.5	46.5

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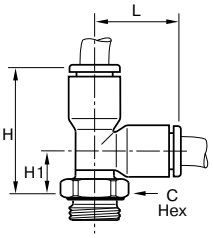


369PLPX Extended Male Elbow - BSPP

Part No.	Tube Size (mm)	BSPP / Metric	C Hex (mm)	H
369PLPX-4M-M5	4	M5X0.8	8	23.0
369PLPX-4M-M7	4	M7X1	10	22.5
369PLPX-4M-2G	4	1/8	13	22.5
369PLPX-4M-4G	4	1/4	16	22.5
369PLPX-6M-M5	6	M5X0.8	10	27.5
369PLPX-6M-M7	6	M7X1	10	26.0
369PLPX-6M-2G	6	1/8	13	27.0
369PLPX-6M-4G	6	1/4	16	27.0
369PLPX-8M-2G	8	1/8	13	36.0
369PLPX-8M-4G	8	1/4	16	33.0
369PLPX-8M-6G	8	3/8	20	33.0
369PLPX-10M-4G	10	1/4	16	40.5
369PLPX-10M-6G	10	3/8	20	40.5
369PLPX-10M-8G	10	1/2	24	40.5
369PLPX-12M-4G	12	1/4	19	44.5
369PLPX-12M-6G	12	3/8	20	42.0
369PLPX-12M-8G	12	1/2	24	42.0
369PLPX-14M-6G	14	3/8	22	51.0
369PLPX-14M-8G	14	1/2	24	48.5

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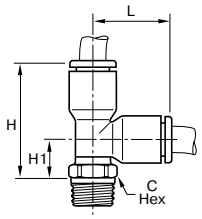


371PLP Male Run Tee - BSPP

Part No.	Tube Size (mm)	BSPP / M5	C Hex (mm)	H	H1	L
371PLP-4M-M5	4	M5X0.8	8	26.0	11.5	14.5
371PLP-4M-2G	4	1/8	13	23.0	8.5	14.5
371PLP-4M-4G	4	1/4	16	23.0	8.5	14.5
371PLP-6M-M5	6	M5X0.8	8	29.5	12.5	17.5
371PLP-6M-2G	6	1/8	13	27.0	10.0	17.5
371PLP-6M-4G	6	1/4	16	27.0	10.0	17.5
371PLP-8M-2G	8	1/8	13	36.5	14.0	23.0
371PLP-8M-4G	8	1/4	16	34.5	12.0	23.0
371PLP-8M-6G	8	3/8	20	34.5	12.0	23.0
371PLP-10M-4G	10	1/4	16	42.0	15.5	26.5
371PLP-10M-6G	10	3/8	20	40.5	14.0	26.5
371PLP-10M-8G	10	1/2	24	40.5	14.0	26.5
371PLP-12M-4G	12	1/4	16	48.0	17.0	31.0
371PLP-12M-6G	12	3/8	20	46.5	15.5	31.0
371PLP-12M-8G	12	1/2	24	46.5	15.5	31.0
371PLP-14M-6G	14	3/8	20	56.5	21.5	35.5
371PLP-14M-8G	14	1/2	24	51.0	16.0	35.5
371PLP-16M-6G	16	3/8	27	38.5	79.5	41
371PLP-16M-8G	16	1/2	27	38.5	79.5	41

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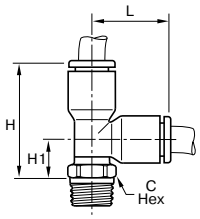


W371PLP Male Run Tee - BSPT

Part No.	Tube Size (mm)	Thread BSPT	C Hex (mm)	H	H1	L
W371PLP-4M-2R	4	1/8	10	23.5	9.0	14.5
W371PLP-4M-4R	4	1/4	14	24.0	9.5	14.5
W371PLP-6M-2R	6	1/8	10	27.5	10.0	17.5
W371PLP-6M-4R	6	1/4	14	28.0	10.5	17.5
W371PLP-8M-2R	8	1/8	10	35.0	12.0	23.0
W371PLP-8M-4R	8	1/4	14	34.0	11.0	23.0
W371PLP-8M-6R	8	3/8	17	34.0	11.0	23.0
W371PLP-10M-4R	10	1/4	15	40.5	14.0	26.5
W371PLP-10M-6R	10	3/8	17	40.5	14.0	26.5
W371PLP-10M-8R	10	1/2	21	40.5	14.0	26.5
W371PLP-12M-4R	12	1/4	15	46.5	15.5	31.0
W371PLP-12M-6R	12	3/8	17	46.5	15.5	31.0
W371PLP-12M-8R	12	1/2	21	46.5	15.5	31.0
W371PLP-14M-8R	14	1/2	24	52.5	17.5	35.5
W371PLP-16M-6R	16	3/8	27	38.5	78	39.5
W371PLP-16M-8R	16	1/2	27	38.5	78	39.5

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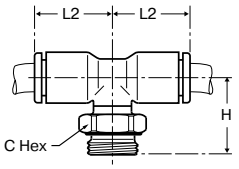


W371PLP Male Run Tee - NPT

Part No.	Tube Size (in)	Thread NPT / UNF	C Hex (mm)	L	H	H1
371PLP-2-0	1/8	10-32	8	.57	.92	.35
W371PLP-2-1	1/8	1/16	10	.57	.93	.35
W371PLP-2-2	1/8	1/8	11	.57	.93	.35
371PLP-4M-0	5/32 (4mm)	10-32	8	.57	1.02	.45
W371PLP-4M-2	5/32 (4mm)	1/8	11	.57	.93	.53
W371PLP-4M-4	5/32 (4mm)	1/4	14	.57	.94	.37
W371PLP-3-2	3/16	1/8	11	.85	1.31	.45
W371PLP-4-2	1/4	1/8	11	.69	1.16	.45
W371PLP-4-4	1/4	1/4	14	.69	1.12	.41
W371PLP-4-6	1/4	3/8	18	.69	1.14	.43
W371PLP-8M-2	5/16 (8mm)	1/8	11	.91	1.38	.49
W371PLP-8M-4	5/16 (8mm)	1/4	14	.91	1.34	.45
W371PLP-8M-6	5/16 (8mm)	3/8	18	.91	1.36	.47
W371PLP-6-2	3/8	1/8	15	1.04	1.63	.60
W371PLP-6-4	3/8	1/4	15	1.04	1.63	.60
W371PLP-6-6	3/8	3/8	18	1.04	1.60	.55
W371PLP-6-8	3/8	1/2	22	1.04	1.63	.59
W371PLP-8-4	1/2	1/4	20	1.38	2.17	.79
W371PLP-8-6	1/2	3/8	20	1.38	2.17	.79
W371PLP-8-8	1/2	1/2	24	1.38	2.07	.79

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



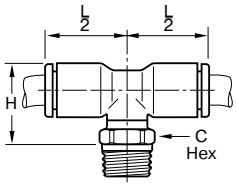


372PLP Male Branch Tee - BSPP

Part No.	Tube Size (mm)	BSPP / M5	C Hex (mm)	H	L2
372PLP-4M-M5	4	M5X0.8	8	17.5	14.0
372PLP-4M-2G	4	1/8	13	15.0	14.0
372PLP-4M-4G	4	1/4	16	15.0	14.0
372PLP-6M-M5	6	M5X0.8	8	19.5	16.0
372PLP-6M-2G	6	1/8	13	17.0	16.0
372PLP-6M-4G	6	1/4	16	17.0	16.0
372PLP-8M-2G	8	1/8	13	23.5	23.0
372PLP-8M-4G	8	1/4	16	21.5	23.0
372PLP-8M-6G	8	3/8	20	21.5	23.0
372PLP-10M-4G	10	1/4	16	26.0	26.5
372PLP-10M-6G	10	3/8	20	24.0	26.5
372PLP-10M-8G	10	1/2	24	24.0	26.5
372PLP-12M-4G	12	1/4	16	29.0	31.0
372PLP-12M-6G	12	3/8	20	27.0	31.0
372PLP-12M-8G	12	1/2	24	27.0	31.0
372PLP-14M-6G	14	3/8	20	32.5	35.5
372PLP-14M-8G	14	1/2	24	27.0	35.5
372PLP-16M-6G	16	3/8	27	54.5	38.5
372PLP-16M-8G	16	1/2	27	54.5	38.5

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



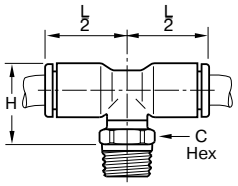


W372PLP Male Branch Tee - BSPT

Part No.	Tube Size (in)	Thread BSPT	C Hex (mm)	L2	H
W372PLP-2-2R	1/8	1/8	10	.55	.61
W372PLP-4M-2R	5/32 (4mm)	1/8	10	.55	.61
W372PLP-4M-4R	5/32 (4mm)	1/4	14	.55	.63
W372PLP-3-2R	3/16	1/8	11	.85	.67
W372PLP-3-4R	3/16	1/4	14	.85	.67
W372PLP-4-2R	1/4	1/8	10	.71	.67
W372PLP-4-4R	1/4	1/4	14	.71	.63
W372PLP-8M-2R	5/16 (8mm)	1/8	10	.91	.87
W372PLP-8M-4R	5/16 (8mm)	1/4	14	.91	.83
W372PLP-8M-6R	5/16 (8mm)	3/8	17	.91	.83
W372PLP-6-4R	3/8	1/4	15	1.04	.95
W372PLP-6-6R	3/8	3/8	17	1.04	.95
W372PLP-8-4R	1/2	1/4	20	1.38	1.24
W372PLP-8-6R	1/2	3/8	20	1.38	1.22

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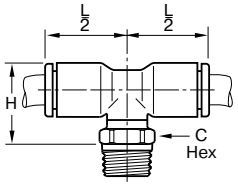




W372PLP Male Branch Tee - BSPT

Part No.	Tube Size (mm)	BSPT	C Hex (mm)	H	L2
W372PLP-4M-2R	4	1/8	10	15.5	14.0
W372PLP-4M-4R	4	1/4	14	16.0	14.0
W372PLP-6M-2R	6	1/8	10	17.5	16.0
W372PLP-6M-4R	6	1/4	14	18.0	16.0
W372PLP-8M-2R	8	1/8	10	22.0	23.0
W372PLP-8M-4R	8	1/4	14	21.0	23.0
W372PLP-8M-6R	8	3/8	17	21.0	23.0
W372PLP-10M-4R	10	1/4	15	24.0	26.5
W372PLP-10M-6R	10	3/8	17	24.0	26.5
W372PLP-10M-8R	10	1/2	21	24.0	26.5
W372PLP-12M-4R	12	1/4	15	27.0	31.0
W372PLP-12M-6R	12	3/8	17	27.0	31.0
W372PLP-12M-8R	12	1/2	21	27.0	31.0
W372PLP-14M-6R	14	3/8	20	30.5	35.5
W372PLP-14M-8R	14	1/2	24	28.5	35.5
W372PLP-16M-6R	16	3/8	27	53.0	38.5
W372PLP-16M-8R	16	1/2	27	53.0	38.5



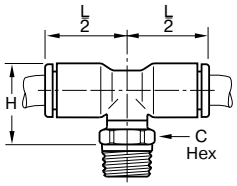


W372PLP Male Branch Tee - NPT

Part No.	Tube Size (mm)	NPT	C Hex (mm)	H	L2
W372PLP-4M-2	4	1/8	11	.61	.55
W372PLP-4M-4	4	1/4	14	.63	.55
W372PLP-6M-2	6	1/8	11	.69	.63
W372PLP-6M-4	6	1/4	14	.71	.63
W372PLP-8M-2	8	1/8	11	.87	.91
W372PLP-8M-4	8	1/4	14	.83	.91
W372PLP-8M-6	8	3/8	18	.85	.91
W372PLP-10M-4	10	1/4	15	.98	1.04
W372PLP-10M-6	10	3/8	18	.95	1.04
W372PLP-10M-8	10	1/2	22	.98	1.04
W372PLP-12M-6	12	3/8	18	1.06	1.22
W372PLP-12M-8	12	1/2	22	.98	1.22

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



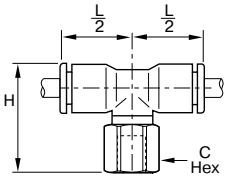


W372PLP Male Branch Tee - NPT

Part No.	Tube Size (in)	Thread NPT / UNF	C Hex (mm)	L2	H
372PLP-2-0	1/8	10-32	8	.57	.61
W372PLP-2-1	1/8	1/16	10	.57	.61
W372PLP-2-2	1/8	1/8	11	.57	.61
W372PLP-2-4	1/8	1/4	14	.57	.63
372PLP-4M-0	5/32 (4mm)	10-32	8	.55	.71
W372PLP-4M-4	5/32 (4mm)	1/4	14	.55	.63
W372PLP-3-2	3/16	1/8	11	.85	.67
W372PLP-4-2	1/4	1/8	11	.71	.67
W372PLP-4-4	1/4	1/4	14	.71	.63
W372PLP-4-6	1/4	3/8	18	.71	.65
W372PLP-5-2	5/16	1/8	11	.91	.87
W372PLP-5-4	5/16	1/4	14	.91	.83
W372PLP-5-6	5/16	3/8	18	.91	.85
W372PLP-6-2	3/8	1/8	15	1.04	.99
W372PLP-6-4	3/8	1/4	15	1.04	.99
W372PLP-6-6	3/8	3/8	18	1.04	.95
W372PLP-6-8	3/8	1/2	22	1.04	.98
W372PLP-8-4	1/2	1/4	20	1.38	1.22
W372PLP-8-6	1/2	3/8	20	1.38	1.22
W372PLP-8-8	1/2	1/2	24	1.38	1.21

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

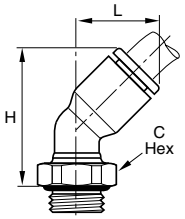




377PLP Female Branch Tee - NPT

Part No.	Tube Size (in)	Thread NPT / UNF	C Hex (mm)	L2	H
377PLP-2-2	1/8	1/8	13	.57	.99
377PLP-4M-2	5/32 (4mm)	1/8	13	.55	.91
377PLP-4M-4	5/32 (4mm)	1/4	16	.55	1.08
377PLP-4-2	1/4	1/8	13	.71	1.02
377PLP-4-4	1/4	1/4	16	.71	1.18
377PLP-8M-2	5/16 (8mm)	1/8	13	.91	1.24
377PLP-8M-4	5/16 (8mm)	1/4	16	.91	1.40
377PLP-6-4	3/8	1/4	16	1.04	1.60
377PLP-8-6	1/2	3/8	22	1.38	1.88

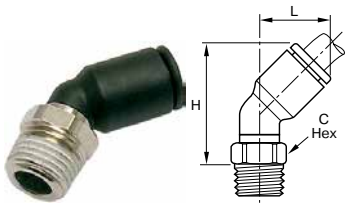




379PLP 45° Male Elbow - BSPP

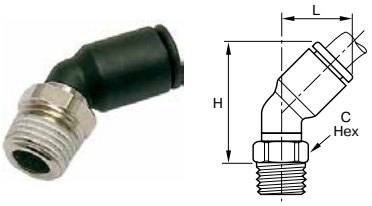
Part No.	Tube Size (mm)	BSPP / M5	C Hex (mm)	H	L
379PLP-4M-M5	4	M5X0.8	8	23.0	13.0
379PLP-4M-2G	4	1/8	13	25.0	13.0
379PLP-6M-M5	6	M5X0.8	8	30.0	14.5
379PLP-6M-2G	6	1/8	13	28.5	14.5
379PLP-6M-4G	6	1/4	16	29.5	14.5
379PLP-8M-2G	8	1/8	13	36.0	19.5
379PLP-8M-4G	8	1/4	16	34.5	19.5
379PLP-8M-6G	8	3/8	20	34.5	19.5
379PLP-10M-4G	10	1/4	16	40.5	23.0
379PLP-10M-6G	10	3/8	20	39.0	23.0
379PLP-10M-8G	10	1/2	24	41.0	23.0
379PLP-12M-4G	12	1/4	16	46.0	26.0
379PLP-12M-6G	12	3/8	20	44.5	26.0
379PLP-12M-8G	12	1/2	24	46.0	26.0

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



W379PLP Male Elbow 45˚- NPT

Part No.	Tube Size (in)	Thread NPT / UNF	C Hex (mm)	H	L
379PLP-2-0	1/8	10-32	8	.91	.49
W379PLP-2-2	1/8	1/8	11	.81	.49
W379PLP-4-2	1/4	1/8	11	.98	.57
W379PLP-4-4	1/4	1/4	14	.98	.57
W379PLP-6-4	3/8	1/4	17	1.36	.91
W379PLP-6-6	3/8	3/8	18	1.36	.91

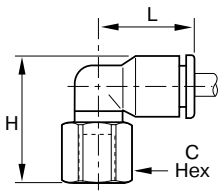


W379PLP 45˚ Male Elbow - BSPT

Part No.	Tube Size (mm)	BSPT	C Hex (mm)	H	L
W379PLP-4M-2R	4	1/8	10	24.5	13.0
W379PLP-6M-2R	6	1/8	10	28.0	14.5
W379PLP-6M-4R	6	1/4	14	30.0	14.5
W379PLP-8M-2R	8	1/8	10	33.5	19.5
W379PLP-8M-4R	8	1/4	14	33.5	19.5
W379PLP-8M-6R	8	3/8	17	33.5	19.5
W379PLP-10M-4R	10	1/4	15	38.5	23.0
W379PLP-10M-6R	10	3/8	17	39.0	23.0
W379PLP-10M-8R	10	1/2	21	40.5	23.0
W379PLP-12M-4R	12	1/4	15	44.0	26.0
W379PLP-12M-6R	12	3/8	17	44.0	26.0
W379PLP-12M-8R	12	1/2	21	46.0	26.0

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

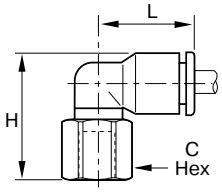




370PLP Female Elbow Swivel - NPT

Part No.	Tube Size (in)	Thread NPT	C Hex (mm)	L	H
370PLP-2-2	1/8	1/8	13	.57	.91
370PLP-4M-2	5/32 (4mm)	1/8	13	.55	.91
370PLP-4M-4	5/32 (4mm)	1/4	16	.55	1.08
370PLP-4-2	1/4	1/8	13	.71	1.02
370PLP-4-4	1/4	1/4	16	.71	1.18
370PLP-8M-2	5/16 (8mm)	1/8	13	.91	1.12
370PLP-8M-4	5/16 (8mm)	1/4	16	.91	1.28
370PLP-6-2	3/8	1/8	16	1.04	1.52
370PLP-6-4	3/8	1/4	16	1.04	1.52
370PLP-8-6	1/2	3/8	22	1.38	1.88



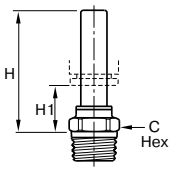


370PLP Female Elbow - BSPP

Part No.	Tube Size (mm)	BSPP	C Hex (mm)	H	L
370PLP-4M-2G	4	1/8	13	23.0	14.0
370PLP-4M-4G	4	1/4	16	27.0	14.0
370PLP-6M-2G	6	1/8	13	25.0	16.0
370PLP-6M-4G	6	1/4	16	29.0	16.0
370PLP-8M-2G	8	1/8	13	28.0	23.0
370PLP-8M-4G	8	1/4	16	32.0	23.0
370PLP-8M-6G	8	3/8	19	33.0	23.0
370PLP-10M-4G	10	1/4	16	34.5	26.5
370PLP-10M-6G	10	3/8	19	35.0	26.5
370PLP-10M-8G	10	1/2	24	41.0	26.5
370PLP-12M-4G	12	1/4	16	38.0	30.5
370PLP-12M-6G	12	3/8	19	38.5	30.5
370PLP-12M-8G	12	1/2	24	43.5	30.5

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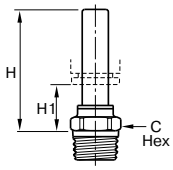




W68PLPSP Male Standpipe - NPT

Part No.	Tube Size (in)	Thread NPT / UNF	C Hex (mm)	H	H1
68PLPSP-4M-0	5/32 (4mm)	10-32	8	1.24	
W68PLPSP-4M-2	5/32 (4mm)	1/8	11	1.02	.57
W68PLPSP-4M-4	5/32 (4mm)	1/4	14	1.04	.59
W68PLPSP-4-2	1/4	1/8	11	1.18	.61
W68PLPSP-4-4	1/4	1/4	14	1.12	.57
W68PLPSP-8M-2	5/16 (8mm)	1/8	11	1.16	.43
W68PLPSP-8M-4	5/16 (8mm)	1/4	14	1.12	.39
W68PLPSP-6-2	3/8	1/8	15	1.47	.81
W68PLPSP-6-4	3/8	1/4	15	1.42	.67
W68PLPSP-6-6	3/8	3/8	17	1.42	.61
W68PLPSP-8-6	1/2	3/8	17	1.44	.37
W68PLPSP-8-8	1/2	1/2	21	1.46	.39



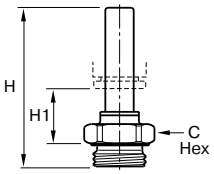


W68PLPSP Male Standpipe - BSPT

Part No.	Tube Size (mm)	BSPT	C Hex (mm)	H	H1
W68PLPSP-4M-2R	4	1/8	10	26.0	14.0
W68PLPSP-4M-4R	4	1/4	14	26.5	14.5
W68PLPSP-6M-2R	6	1/8	10	28.0	14.0
W68PLPSP-6M-4R	6	1/4	14	28.5	14.5
W68PLPSP-8M-2R	8	1/8	10	29.5	11.0
W68PLPSP-8M-4R	8	1/4	14	28.5	10.0
W68PLPSP-10M-4R	10	1/4	15	36.0	15.5
W68PLPSP-10M-6R	10	3/8	17	36.0	15.5
W68PLPSP-10M-8R	10	1/2	21	36.0	15.5
W68PLPSP-12M-6R	12	3/8	17	36.5	12.0
W68PLPSP-12M-8R	12	1/2	21	36.5	12.0

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

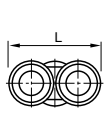


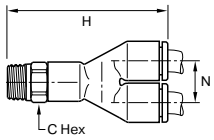


68PLPSP Male Standpipe - BSPP

Part No.	Tube Size (mm)	BSPP	C Hex (mm)	H	H1
68PLPSP-4M-M5	4	M5X0.8	8	31.0	16.0
68PLPSP-4M-2G	4	1/8	13	30.0	13.5
68PLPSP-4M-4G	4	1/4	16	31.0	13.5
68PLPSP-6M-2G	6	1/8	13	32.0	13.5
68PLPSP-6M-4G	6	1/4	16	33.0	13.5
68PLPSP-8M-2G	8	1/8	13	35.5	12.5
68PLPSP-8M-4G	8	1/4	16	34.5	10.5
68PLPSP-8M-6G	8	3/8	20	34.5	10.5
68PLPSP-10M-4G	10	1/4	16	43.5	17.5
68PLPSP-10M-6G	10	3/8	20	41.5	15.5
68PLPSP-10M-8G	10	1/2	24	41.5	15.5
68PLPSP-12M-6G	12	3/8	20	42.0	12.0
68PLPSP-12M-8G	12	1/2	24	43.5	12.0
68PLPSP-14M-6G	14	3/8	20	46.5	14.0
68PLPSP-14M-8G	14	1/2	24	48.0	13.5





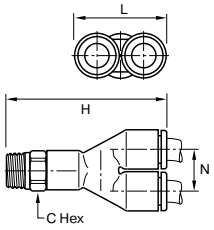


W368PLP Male Y Connector - NPT

Part No.	Tube Size (in)	Thread NPT	C Hex (mm)	H	L	N
W368PLP-4M-2	5/32 (4mm)	1/8	11	1.28	.69	.35
W368PLP-4M-4	5/32 (4mm)	1/4	14	1.30	.69	.35
W368PLP-4-2	1/4	1/8	11	1.61	.87	.45
W368PLP-4-4	1/4	1/4	14	1.56	.87	.45
W368PLP-6-4	3/8	1/4	17	2.24	1.30	.67
W368PLP-6-6	3/8	3/8	18	2.28	1.30	.67

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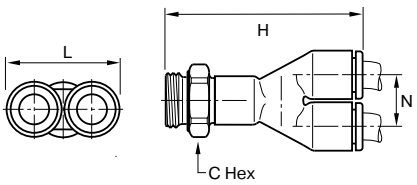




W368PLP Male Y Connector - BSPT

Part No.	Tube Size (mm)	BSPT	C Hex (mm)	H	L	N
W368PLP-4M-2R	4	1/8	10	32.5	17.5	9.0
W368PLP-4M-4R	4	1/4	14	33.0	17.5	9.0
W368PLP-6M-2R	6	1/8	10	39.5	21.5	1.0
W368PLP-6M-4R	6	1/4	14	40.0	21.5	1.0
W368PLP-8M-2R	8	1/8	13	56.5	28.0	14.5
W368PLP-8M-4R	8	1/4	14	55.5	28.0	14.5
W368PLP-8M-6R	8	3/8	16	48.5	28.0	14.5
W368PLP-10M-4R	10	1/4	14	60.0	39.0	20.0
W368PLP-10M-6R	10	3/8	16	60.5	39.0	20.0
W368PLP-10M-8R	10	1/2	24	61.0	39.0	20.0
W368PLP-12M-6R	12	3/8	19	66.0	39.0	20.0
W368PLP-12M-8R	12	1/2	21	66.0	39.0	20.0



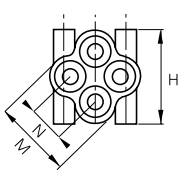


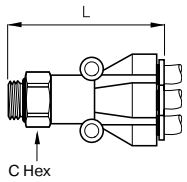
368PLP Male Y Connector - BSPP

Part No.	Tube Size (mm)	BSPP / M5	C Hex (mm)	H	L	N
368PLP-4M-M5	4	M5X0.8	8	32.5	17.5	9.0
368PLP-4M-2G	4	1/8	13	32.0	17.5	9.0
368PLP-4M-4G	4	1/4	16	32.0	17.5	9.0
368PLP-6M-M5	6	M5X0.8	10	39.5	21.5	11.0
368PLP-6M-2G	6	1/8	13	39.0	21.5	11.0
368PLP-6M-4G	6	1/4	16	39.0	21.5	11.0
368PLP-8M-2G	8	1/8	13	56.0	28.0	14.5
368PLP-8M-4G	8	1/4	16	55.0	28.0	14.5
368PLP-8M-6G	8	3/8	19	54.0	28.0	14.5
368PLP-10M-4G	10	1/4	16	63.5	33.0	17.0
368PLP-10M-6G	10	3/8	20	63.5	33.0	17.0
368PLP-10M-8G	10	1/2	20	65.0	33.0	17.0
368PLP-12M-6G	12	3/8	19	68.0	39.0	20.0
368PLP-12M-8G	12	1/2	24	70.0	39.0	20.0

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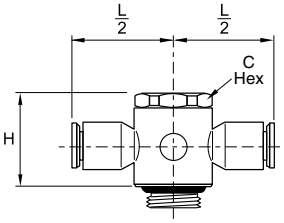




W368PLPD Double Y Male Connector - BSPT

Part No.	Tube Size (mm)	BSPT	C Hex (mm)	H	L	M	N	Mounting Hole Dia
W368PLPD-4M-2R	4	1/8	13	25.5	41.5	21.0	10.0	3.7
W368PLPD-4M-4R	4	1/4	16	25.5	43.5	21.0	10.0	3.7
W368PLPD-6M-2R	6	1/8	19	31.5	54.5	26.5	12.0	3.7
W368PLPD-6M-4R	6	1/4	19	31.5	57.5	26.5	12.0	3.7

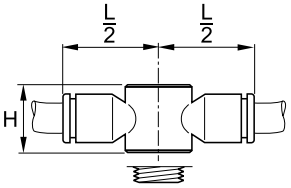




32PLPDJ Double Banjo - BSPP, M5

Part No.	Tube Size (mm)	BSPP / M5	C Hex (mm)	H	L2
32PLPDJ-4M-M5	4	M5X0.8		13.0	16.0
32PLPDJ-6M-2G	6	1/8	13	17.0	20.0
32PLPDJ-6M-4G	6	1/4	17	21.0	26.5
32PLPDJ-8M-4G	8	1/4	17	21.0	27.0
32PLPDJ-8M-6G	8	3/8	20	24.5	30.5



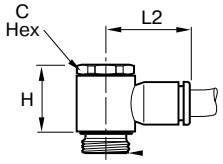


32PLPDJB Double Banjo Bodies

Part No.	Tube Size (mm)	BSPP / M5	H	L2
32PLPDJB-6M-2G	6	1/8	14.4	20.0
32PLPDJB-6M-4G	6	1/4	18.0	26.0
32PLPDJB-8M-4G	8	1/4	18.0	27.0

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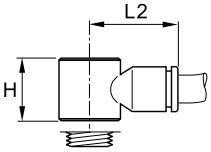


369PLPBJ Banjo - BSPP

Part No.	Tube Size (mm)	BSPP / Metric	C Hex (mm)	H	L2
369PLPBJ-3M-M3*	3	M3X0.5		13.0	16.0
369PLPBJ-4M-M5*	4	M5X0.8		13.0	16.0
369PLPBJ-4M-2G	4	1/8	13	17.0	18.5
369PLPBJ-6M-M5*	6	M5X0.8		13.0	18.5
369PLPBJ-6M-2G	6	1/8	13	17.0	20.0
369PLPBJ-6M-4G	6	1/4	17	21.0	22.0
369PLPBJ-8M-2G	8	1/8	13	16.5	25.0
369PLPBJ-8M-4G	8	1/4	17	21.0	27.0
369PLPBJ-8M-6G	8	3/8	20	24.5	29.0
369PLPBJ-10M-4G	10	1/4	17	21.0	29.0
369PLPBJ-10M-6G	10	3/8	20	24.5	31.0
369PLPBJ-10M-8G	10	1/2	25	27.5	36.5
369PLPBJ-12M-6G	12	3/8	20	24.5	34.5
369PLPBJ-12M-8G	12	1/2	25	27.5	36.5

*With screwdriver slot



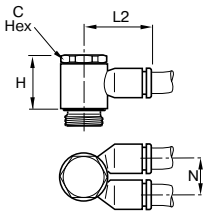


369PLPBJB Banjo Bodies

Part No.	Tube Size (mm)	BSPP / M5	H	L2
369PLPBJB-4M-M5	4	M5X0.8	13.0	16.0
369PLPBJB-4M-2G	4	1/8	14.5	18.5
369PLPBJB-6M-M5	6	M5X0.8	13.0	18.5
369PLPBJB-6M-2G	6	1/8	14.5	20.0
369PLPBJB-6M-4G	6	1/4	18.0	22.0
369PLPBJB-8M-2G	8	1/8	14.5	25.0
369PLPBJB-8M-4G	8	1/4	18.0	27.0
369PLPBJB-8M-6G	8	3/8	21.5	29.0
369PLPBJB-10M-4G	10	1/4	18.0	29.0
369PLPBJB-10M-6G	10	3/8	21.5	31.0
369PLPBJB-12M-6G	12	3/8	21.5	34.5

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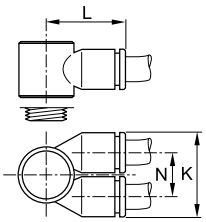




369PLPTJ Twin Banjo - BSPP, M5

Part No.	Tube Size (mm)	BSPP / M5	C Hex (mm)	H	L2	N
369PLPTJ-4M-M5	4	M5X0.8		13.0	16.0	9.0
369PLPTJ-4M-2G	4	1/8	13	16.5	18.5	11.5
369PLPTJ-6M-2G	6	1/8	13	16.5	18.5	11.5
369PLPTJ-6M-4G	6	1/4	17	21.0	27.0	14.5
369PLPTJ-8M-4G	8	1/4	17	21.0	27.0	14.5
369PLPTJ-8M-6G	8	3/8	20	24.5	31.0	17.0
369PLPTJ-10M-6G	10	3/8	20	24.5	31.0	17.0



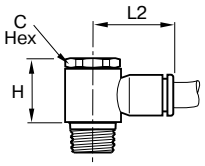


369PLPTJB Twin Banjo Bodies

Part No.	Tube Size (mm)	BSPP / M5	K	L	N
369PLPTJB-4M-4G	4	1/4	28.0	25.0	14.5
369PLPTJB-6M-2G	6	1/8	22.5	20.5	12.0
369PLPTJB-6M-4G	6	1/4	28.0	25.0	14.5
369PLPTJB-6M-6G	6	3/8	33.0	28.5	17.0
369PLPTJB-8M-4G	8	1/4	28.0	26.0	14.5
369PLPTJB-8M-6G	8	3/8	33.0	29.5	17.0

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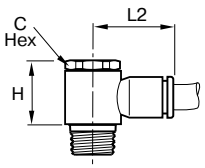




W369PLPBJ Banjo - NPT

Part No.	Tube Size (in)	Thread NPT / UNF	C Hex (mm)	H	L2
369PLPBJ-2-0	1/8	10-32		.79	.65
369PLPBJ-4M-0	5/32 (4mm)	10-32		.79	.65
W369PLPBJ-4M-2	5/32 (4mm)	1/8	13	.73	.73
369PLPBJ-4-0	1/4	10-32		.79	.73
W369PLPBJ-4-2	1/4	1/8	13	.73	.83
W369PLPBJ-4-4	1/4	1/4	17	.89	.91
W369PLPBJ-4-6	1/4	3/8	21	1.04	1.12
W369PLPBJ-6-4	3/8	1/4	17	.89	1.12
W369PLPBJ-6-6	3/8	3/8	21	1.04	1.20



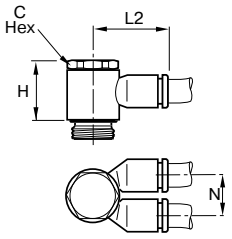


W369PLPBJ Banjo - BSPT

Part No.	Tube Size (mm)	BSPT	C Hex (mm)	H	L2
W369PLPBJ-6M-2R	6	1/8	13	18.5	20.0
W369PLPBJ-6M-4R	6	1/4	17	22.5	22.0
W369PLPBJ-8M-2R	8	1/8	13	18.5	25.0
W369PLPBJ-8M-4R	8	1/4	17	22.5	27.0
W369PLPBJ-10M-4R	10	1/4	17	22.5	29.0
W369PLPBJ-10M-6R	10	3/8	21	26.5	31.0
W369PLPBJ-12M-4R	12	1/4	21	26.5	34.5
W369PLPBJ-12M-6R	12	3/8	21	26.5	34.5

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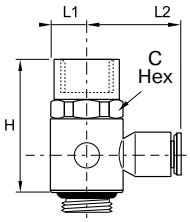




W369PLPTJ Twin Banjo - NPT

Part No.	Tube Size (in)	Thread NPT / UNF	C Hex (mm)	H	L2
369PLPTJ-4M-0	5/32 (4mm)	10-32		.63	.61
W369PLPTJ-4M-2	5/32 (4mm)	1/8	13	.73	.73
W369PLPTJ-4-2	1/4	1/8	13	.73	.73
W369PLPTJ-4-4	1/4	1/4	17	.89	1.04
W369PLPTJ-6-4	3/8	1/4	21	1.04	1.22
W369PLPTJ-6-6	3/8	3/8	21	1.04	1.22

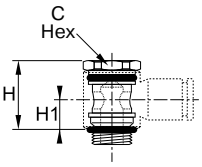




376PLPBJ Banjo with Female Bolt

Part No.	Tube Size (mm)	BSPP / M5	C Hex (mm)	H	L1	L2
376PLPBJ-4M-2G	4	1/8	13	25.5	7.0	18.5
376PLPBJ-6M-4G	6	1/4	17	33.0	9.0	22.0
376PLPBJ-8M-6G	8	3/8	20	37.5	11	29.0



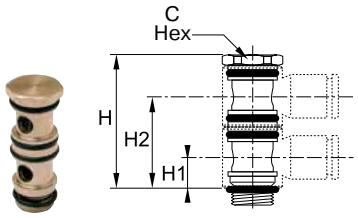


68BJB Single Banjo Bolt

Part No.	BSPP / M5	C Hex (mm)	H	H1
68BJB-M5*	M5X0.8		17.0	7.5
68BJB-2G	1/8	13	17.0	7.5
68BJB-4G	1/4	17	21.0	9.5
68BJB-6G	3/8	20	24.5	11.0

*With screwdriver slot

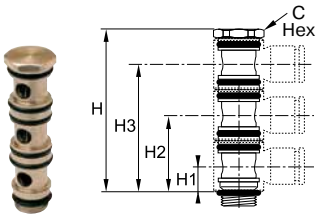
WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



68BJBD Double Banjo Bolt

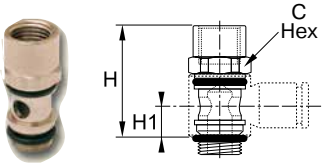
Part No.	BSPP / M5	C Hex (mm)	H	H1	H2
68BJBD-M5*	M5X0.8		24.5	7.5	18.5
68BJBD-2G	1/8	13	31.0	7.5	22.0
68BJBD-4G	1/4	17	39.0	9.5	27.5
68BJBD-6G	3/8	20	46.0	11.0	32.5

*With screwdriver slot



68BJBT Triple Banjo Bolt

Part No.	BSPP	C Hex (mm)	H	H1	H2	H3
68BJBT-2G	1/8	13	45.5	7.5	22.0	36.0
68BJBT-4G	1/4	17	54.0	9.5	27.5	45.5
68BJBT-6G	3/8	20	67.5	11.0	32.5	54.0

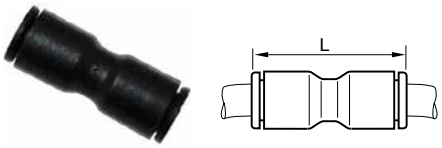


66BJB Female Threaded Banjo Bolt

Part No.	1 BSPP / M5	2 BSPP / M5	C Hex (mm)	H	H1
66BJB-2G	1/8	1/8	13	24.5	7.5
66BJB-4G	1/4	1/4	17	33.0	9.5
66BJB-6G	3/8	3/8	20	37.5	11.0
66BJB-8G	1/2	1/2	25	42.0	11.5

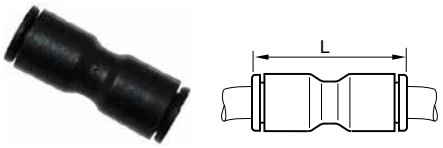
*With screwdriver slot

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



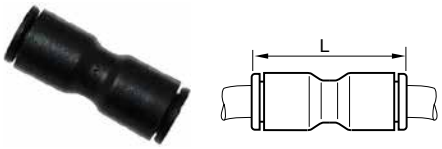
32PLP Equal Union (Fractional Inch)

Part No.	Tube Size (in)	L
32PLP-2	1/8	.97
32PLP-3	3/16	1.44
32PLP-4	1/4	1.16
32PLP-6	3/8	1.65
32PLP-8	1/2	2.17



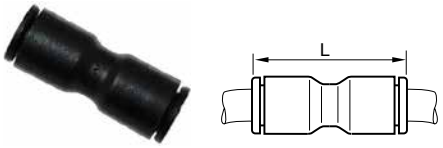
32PLP Unequal Union (Fractional Inch)

Part No.	1 Tube Size (in)	2 Tube Size (in)	L
32PLP-4M-2	5/32 (4mm)	1/8	0.96
32PLP-4M-4	5/32 (4mm)	1/4	1.16
32PLP-4-2	1/4	1/8	1.32
32PLP-4-8M	1/4	5/16 (8mm)	1.44
32PLP-6-4	3/8	1/4	1.61
32PLP-6-8	3/8	1/2	2.17



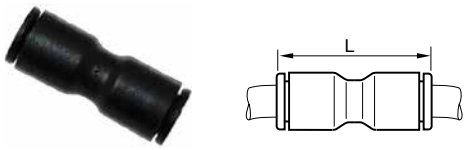
32PLP Equal Union (Metric Tube)

Part No.	Tube Size (mm)	L
32PLP-3M	3	25.0
32PLP-4M	4	25.0
32PLP-6M	6	28.5
32PLP-8M	8	38.0
32PLP-10M	10	42.0
32PLP-12M	12	50.5
32PLP-14M	14	56.0
32PLP-16M	16	60.5



32PLP Unequal Union (Metric Tube)

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	L
32PLP-3M-4M	3	4	25.0
32PLP-6M-4M	6	4	28.0
32PLP-8M-4M	8	4	28.0
32PLP-8M-6M	8	6	38.0
32PLP-10M-6M	10	6	42.0
32PLP-10M-8M	10	8	42.0
32PLP-12M-8M	12	8	50.5
32PLP-12M-10M	12	10	50.5
32PLP-12M-14M	12	14	56.0
32PLP-12M-16M	16	12	61.0

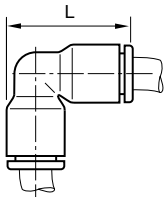


32PLP Converter (Fractional Inch to Metric Tube)

Part No.	Tube Size (in)	Tube Size (mm)	L
32PLP-6M-4	1/4	6	1.18
32PLP-10M-6	3/8	10	1.99
32PLP-12M-8	1/2	12	2.25

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

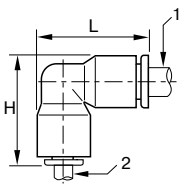




365PLP Union Elbow

Part No.	Tube Size (in)	L
365PLP-2	1/8	.71
365PLP-3	3/16	1.07
365PLP-4	1/4	.93
365PLP-6	3/8	1.33
365PLP-8	1/2	1.38

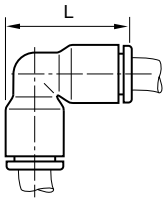




365PLP Unequal Union Elbow

Part No.	1 Tube Size (in)	2 Tube Size (in)	L	H
365PLP-2-4	1/8	1/4	.93	.93
365PLP-4M-4	5/32 (4mm)	1/4	.93	.93
365PLP-6-4	3/8	1/4	1.33	1.30
365PLP-6-8	3/8	1/2	1.81	1.81

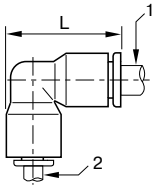




365PLP Union Elbow

Part No.	Tube Size (mm)	L
365PLP-4M	4	19.0
365PLP-6M	6	22.5
365PLP-8M	8	29.5
365PLP-10M	10	34.5
365PLP-12M	12	40.5
365PLP-14M	14	46.5
365PLP-16M	16	52.0

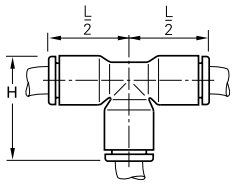




365PLP Unequal Union Elbow

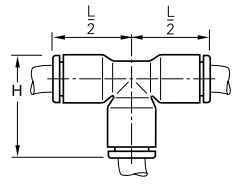
Part No.	1 Tube Size (mm)	2 Tube Size (mm)	L
365PLP-4M-6M	4	6	22.5
365PLP-6M-8M	6	8	29.5
365PLP-8M-10M	8	10	34.5
365PLP-10M-12M	10	12	40.5

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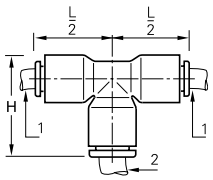
364PLP Union Tee

Part No.	Tube Size (in)	L2	H
364PLP-2	1/8	.57	.75
364PLP-3	3/16	.85	1.07
364PLP-4	1/4	.71	.92
364PLP-6	3/8	1.02	1.34
364PLP-8	1/2	1.38	1.81

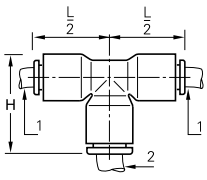
364PLP Union Tee

Part No.	Tube Size (mm)	H	L2
364PLP-3M	3	19.0	14.5
364PLP-4M	4	19.0	14.5
364PLP-6M	6	23.5	18.0
364PLP-8M	8	29.5	23.0
364PLP-10M	10	34.5	26.5
364PLP-12M	12	40.5	31.0
364PLP-14M	14	46.0	35.5
364PLP-16M	16	52.0	39.0

364PLP Unequal Union Tee

Part No.	1 Tube Size (in)	2 Tube Size (in)	L2	H
364PLP-2-4	1/8	1/4	.71	.93
364PLP-4M-4	5/32 (4mm)	1/4	.71	.93
364PLP-4-2	1/4	1/8	.73	.93
364PLP-4-4M	1/4	5/32 (4mm)	.73	.93
364PLP-4-6	1/4	3/8	.96	1.32
364PLP-6-4	3/8	1/4	1.00	1.28
364PLP-6-8	3/8	1/2	1.38	1.81
364PLP-8-4	1/2	1/4	1.38	1.81
364PLP-8-6	1/2	3/8	1.38	1.81

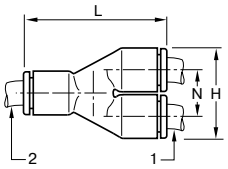



364PLP Unequal Union Tee

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	L2
364PLP-4M-6M	4	6	22.5	17.5
364PLP-6M-4M	6	4	22.5	17.5
364PLP-6M-8M	6	8	29.5	23.0
364PLP-8M-6M	8	6	29.5	23.0
364PLP-8M-10M	8	10	34.5	26.5
364PLP-10M-12M	10	12	34.5	26.5
364PLP-10M-8M	10	8	40.5	31.0
364PLP-12M-10M	12	10	40.5	31.0
364PLP-14M-8M	14	8	46.0	35.5
364PLP-16M-12M	16	12	39.0	

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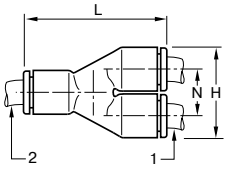




362PLP Union Y

Part No.	1 Tube Size (in)	2 Tube Size (in)	L	H	N
362PLP-2	1/8	1/8	1.12	.69	.35
362PLP-2-4	1/8	1/4	1.42	.87	.45
362PLP-4M-4	5/32 (4mm)	1/4	1.42	.87	.45
362PLP-4	1/4	1/4	1.42	.87	.45
362PLP-4-6	1/4	3/8	2.02	1.30	.67
362PLP-6	3/8	3/8	2.09	1.30	.67
362PLP-8	1/2	1/2	2.64	1.77	.91



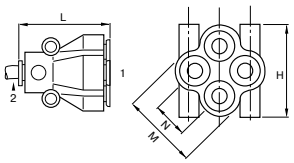


362PLP Union Y

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	L	N
362PLP-4M	4	4	17.5	28.5	9.0
362PLP-6M	6	6	21.5	35.0	11.0
362PLP-8M	8	8	28.0	45.0	14.5
362PLP-10M	10	10	33.0	53.0	17.0
362PLP-12M	12	12	39.0	57.0	20.0
362PLP-4M-6M	4	6	17.5	33.0	9.0
362PLP-6M-8M	6	8	22.5	41.0	11.5
362PLP-8M-10M	8	10	28.0	47.0	14.5
362PLP-10M-12M	10	12	33.0	57.0	17.0

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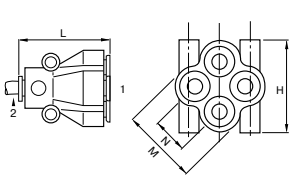




362PLPD Double Y Connector

Part No.	1 Tube Size (in)	2 Tube Size (in)	H	L	M	N	Mounting Hole Dia.
362PLPD-4M-4	5/32 (4mm)	1/4	1.00	1.18	.83	.39	.15

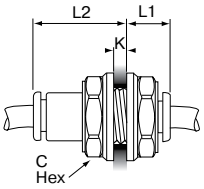




362PLPD Double Y Connector

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	L	M	N	Mounting Hole Dia
362PLPD-4M	4	4	25.5	30.5	21.0	10.0	3.7
362PLPD-6M	6	6	31.5	37.5	26.5	12.0	3.7
362PLPD-4M-6M	4	6	25.5	30.5	21.0	10.0	3.7
362PLPD-6M-8M	6	8	31.5	38.0	26.5	12.0	3.7



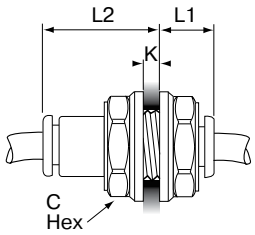


32PLPBH Bulkhead Union

Part No.	Tube Size (in)	C Hex (mm)	K Max	L1	L2	Bulkhead Thread	Bulkhead Hole Dia.
32PLPBH-2	1/8	13	.22	.37	.61	M10 X 1	12MM
32PLPBH-4	1/4	16	.35	.37	.81	M15 X 1	16MM
32PLPBH-6	3/8	22	.57	.51	1.18	M18 X 1.5	24MM
32PLPBH-8	1/2	29	.81	.67	1.61	M25 X 1.5	26MM

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

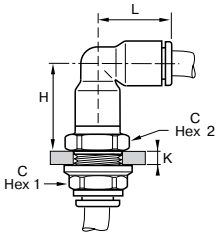




32PLPBH Bulkhead Union

Part No.	Tube Size (mm)	C Hex (mm)	K Max	L1	L2	Bulkhead Thread	Bulkhead Hole Dia.
32PLPBH-4M	4	13	5.5	15.0	10.0	M12 X 1	12MM
32PLPBH-6M	6	15	8.5	18.0	10.5	M14 X 1	14MM
32PLPBH-8M	8	18	14.5	25.0	13.5	M16 X 1	16MM
32PLPBH-10M	10	22	14.5	27.5	15.5	M22 X 1.5	22MM
32PLPBH-12M	12	26	18.5	33.0	18.0	M24 X 1.5	24MM
32PLPBH-14M	14	29	20.5	37.5	20.5	M26 X 1.5	26MM



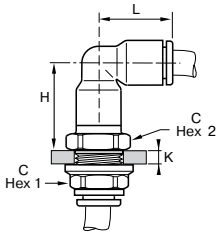


365PLPBH Equal Bulkhead Elbow

Part No.	Tube Size (in)	C1 Hex	C2 Hex	K Max	H	L	Bulkhead Thread	Bulkhead Hole Dia.
365PLPBH-2	1/8	13	13	.28	.71	.57	M10 X 1	10MM
365PLPBH-4M	5/32 (4mm)		13	.26	.83	.67	M12 X 1	12MM
365PLPBH-4	1/4	18	17	.32	.87	.71	M15 X 1	15MM
365PLPBH-8M	5/16 (8mm)		18	.31	1.22	.94	M16 X 1	16MM
365PLPBH-6	3/8	22	22	.33	1.08	1.00	M18 X 1.5	18MM
365PLPBH-8	1/2	29	27	.41	1.54	1.38	M25 X 1.5	25MM

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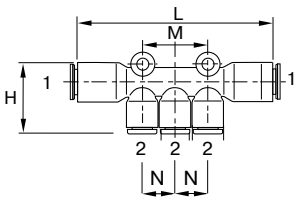




365PLPBH Equal Bulkhead Elbow

Part No.	Tube Size (mm)	C1 Hex	C2 Hex	K Max	H	L	Bulkhead Thread	Bulkhead Hole Dia.
365PLPBH-4M	4	13	13	6.5	21.0	17.0	M12 X 1	12MM
365PLPBH-6M	6	15	15	7.0	24.5	19.5	M14 X 1	14MM
365PLPBH-8M	8	18	18	8.0	31.0	24.0	M16 X 1	16MM
365PLPBH-10M	10	22	22	8.5	36.0	28.0	M22 X 1.5	22MM
365PLPBH-12M	12	26	26	8.5	42.0	33.0	M24 X 1.5	24MM



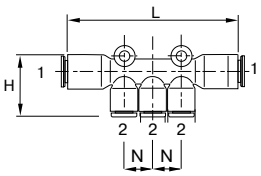


24PLP Multiple Tee

Part No.	1 Tube Size (in)	2 Tube Size (in)	H	L	M	N	Mtg. Hole Dia.
24PLP-4-4M	1/4	5/32 (4mm)	0.97	2.81	.90	.45	.17
24PLP-4-4	1/4	1/4	1.22	3.14	1.21	.61	.17
24PLP-6-4	3/8	1/4	1.34	3.21	1.22	.61	.17

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

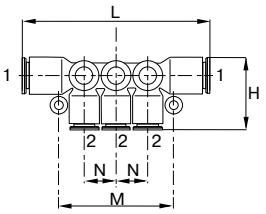




24PLP Multiple Tee

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	L	N	Mounting Hole Dia.
24PLP-6M-4M	6	4	24.5	74	11.5	4.2
24PLP-8M-4M	8	4	24.5	74	11.5	4.2
24PLP-8M-6M	8	6	24.5	74	11.5	4.2
24PLP-10M-6M	10	6	36.0	81	15.5	4.2
24PLP-10M-8M	10	8	36.0	81	15.5	4.2

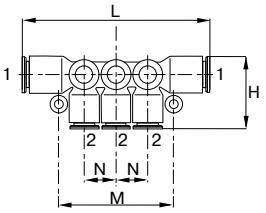




24PLPD Double Multiple Tee

Part No.	1 Tube Size (in)	2 Tube Size (in)	H	L	M	N	Mounting Hole Dia.
24PLPD-4-4M	1/4	5/32 (4mm)	.73	2.84	1.69	.45	.17
24PLPD-4-4	1/4	1/4	.73	2.84	1.69	.45	.17
24PLPD-6-4	3/8	1/4	.91	3.31	2.05	.57	.17



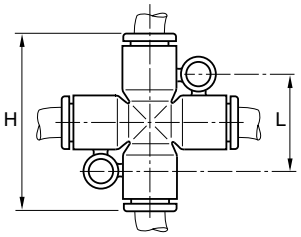


24PLPD Double Multiple Tee

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	L	M	N	Mounting Hole Dia.
24PLPD-6M-4M	6	4	18.5	72.0	43.0	11.5	4.2
24PLPD-8M-4M	8	4	18.5	73.0	43.0	11.5	4.2
24PLPD-8M-6M	8	6	18.5	73.0	43.0	11.5	4.2
24PLPD-10M-6M	10	6	23.0	84.0	52.0	14.5	4.2
24PLPD-10M-8M	10	8	23.5	84.0	52.0	14.5	4.2

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

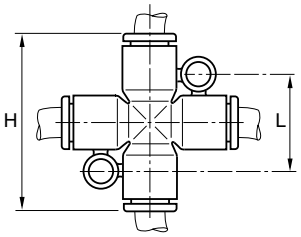




347PLP Equal Cross

Part No.	Tube Size (in)	H	L	Mounting Hole Dia.
347PLP-4	1/4	1.40	.79	.17

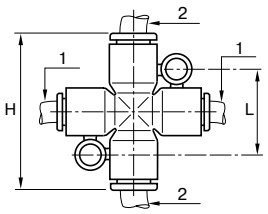




347PLP Equal Cross

Part No.	Tube Size (mm)	H	L	Mounting Hole Dia.
347PLP-4M	4	36	20.0	4.2
347PLP-6M	6	36	20.0	4.2
347PLP-8M	8	46	22.5	4.2





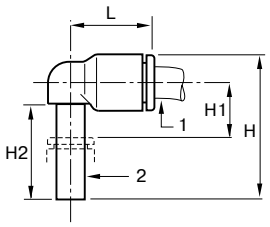
347PLP Unequal Cross

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	L	Mounting Hole Dia.
347PLP-4M-6M	4	6	36	20.0	4.2
347PLP-6M-4M*	6	4	36	20.0	4.2
347PLP-6M-8M	6	8	46	22.5	4.2
347PLP-8M-6M*	8	6	46	22.5	4.2

*This model provides 3 outlines of "TUBE1" and 1 outlet of "TUBE 2".

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

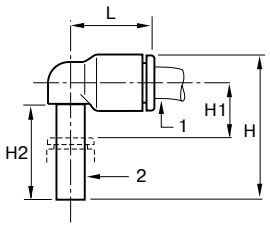




369PLPSP Plug-In Elbow

Part No.	1 Tube Size (in)	2 Tube Size (in)	H	H1	H2	L
369PLPSP-2	1/8	1/8	.92	.31	.64	.57
369PLPSP-4M-4	5/32 (4mm)	1/4	1.08	.30	.71	.71
369PLPSP-4	1/4	1/4	1.20	.43	.83	.73
369PLPSP-4-6	1/4	3/8	1.52	.35	.96	.98
369PLPSP-6	3/8	3/8	1.52	.35	.96	1.02
369PLPSP-8	1/2	1/2	2.00	.51	1.12	1.38



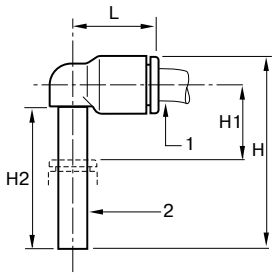


369PLPSP Plug-In Elbow

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	H1	H2	L
369PLPSP-4M	4	4	23.0	6.0	15.5	14.0
369PLPSP-6M	6	6	26.5	7.0	17.0	16.0
369PLPSP-8M	8	8	33.5	8.0	21.5	23.0
369PLPSP-10M	10	10	39.0	9.5	24.5	23.5
369PLPSP-12M	12	12	44.5	10.0	27.5	31.0
369PLPSP-4M-6M	4	6	26.5	7.0	17.0	16.0
369PLPSP-6M-4M	6	4	24.5	7.0	15.5	16.0
369PLPSP-6M-8M	6	8	33.5	8.0	21.5	22.0
369PLPSP-8M-10M	8	10	39.0	8.5	24.5	26.5
369PLPSP-10M-12M	10	12	44.5	10.0	27.5	31.0

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

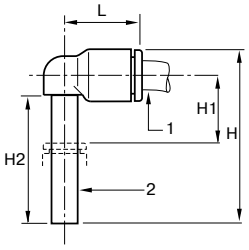




369PLPSPX Extended Plug-In Elbow

Part No.	1 Tube Size (in)	2 Tube Size (in)	H	H1	H2	L
369PLPSPX-2	1/8	1/8	1.26	.65	.98	.57
369PLPSPX-4	1/4	1/4	1.56	.77	1.18	.71
369PLPSPX-6	3/8	3/8	2.19	1.02	1.63	1.02



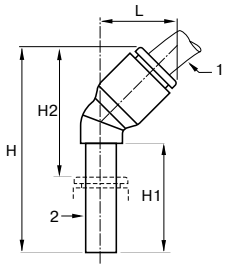


369PLPSPX Extended Plug-In Elbow

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	H1	H2	L
369PLPSPX-4M	4	4	32.5	15.5	25.0	14.0
369PLPSPX-6M	6	6	38.5	19.0	29.0	16.0
369PLPSPX-8M	8	8	49.0	23.5	37.0	23.0
369PLPSPX-10M	10	10	56.0	26.5	41.5	26.5
369PLPSPX-12M	12	12	62.5	28.0	45.5	31.0
369PLPSPX-4M-6M	4	6	38.5	19.0	29.0	16.0
369PLPSPX-6M-8M	6	8	49.0	23.5	37.0	23.0
369PLPSPX-8M-10M	8	10	56.0	26.5	41.5	26.5
369PLPSPX-10M-12M	10	12	62.5	28.0	45.5	31.0

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

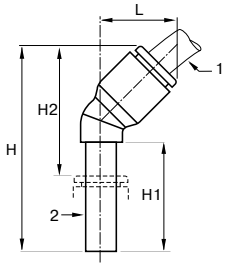




379PLPSP 45˚ Plug-In Elbow

Part No.	1 Tube Size (in)	2 Tube Size (in)	H	H1	H2	L
379PLPSP-2	1/8	1/8	1.14	.59	.69	.47
379PLPSP-4	1/4	1/4	1.44	.71	.87	.57
379PLPSP-6	3/8	3/8	2.00	.96	1.16	.91



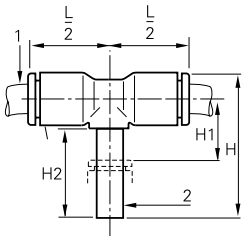


379PLPSP 45˚ Plug-In Elbow

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	H1	H2	L
379PLPSP-4M	4	4	33.5	19.0	21.0	13.0
379PLPSP-6M	6	6	39.0	21.0	25.0	14.5
379PLPSP-8M	8	8	44.0	21.5	25.5	19.5
379PLPSP-10M	10	10	53.0	27.0	32.5	23.0
379PLPSP-12M	12	12	58.5	27.5	34.0	26.5

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

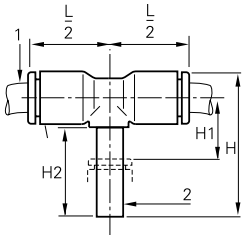




372PLPSP Plug-In Branch Tee

Part No.	1 Tube Size (in)	2 Tube Size (in)	H	H1	H2	L2
372PLPSP-2	1/8	1/8	.95	.26	.59	.57
372PLPSP-4	1/4	1/4	.98	.43	.77	.73
372PLPSP-6	3/8	3/8	1.61	.35	.96	.98
372PLPSP-8	1/2	1/2	2.01	.51	1.12	1.38



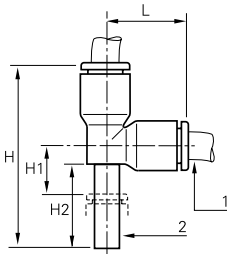


372PLPSP Plug-In Branch Tee

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	H1	H2	L2
372PLPSP-4M	4	4	23.0	6.0	15.5	14.5
372PLPSP-6M	6	6	26.5	7.0	17.0	16.0
372PLPSP-8M	8	8	33.5	8.0	21.5	23.0
372PLPSP-10M	10	10	39.0	9.5	24.5	26.5
372PLPSP-12M	12	12	44.5	10.0	27.5	31.0
372PLPSP-4M-6M	4	6	26.5	7.0	17.0	16.0
372PLPSP-6M-8M	6	8	33.5	8.0	21.5	23.0
372PLPSP-8M-10M	8	10	39.0	9.5	24.5	26.5
372PLPSP-10M-12M	10	12	44.5	10.0	27.5	31.0

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

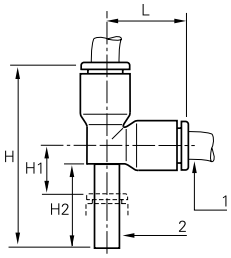




371PLPSP Plug-In Run Tee

Part No.	1 Tube Size (in)	2 Tube Size (in)	H	H1	H2	L
371PLPSP-4	1/4	1/4	1.69	.43	.83	.73
371PLPSP-6	3/8	3/8	2.23	.33	.96	1.00
371PLPSP-8	1/2	1/2	2.86	.51	1.12	1.38



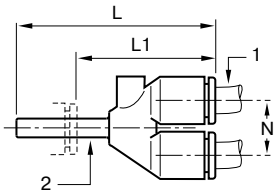


371PLPSP Plug-In Run Tee

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	H1	H2	L
371PLPSP-4M	4	4	33.0	6.0	15.5	14.5
371PLPSP-6M	6	6	38.5	7.0	17.0	17.5
371PLPSP-8M	8	8	49.0	8.0	21.5	23.0
371PLPSP-10M	10	10	57.0	10.5	24.5	26.5
371PLPSP-12M	12	12	65.5	10.5	27.5	31.0
371PLPSP-4M-6M	4	6	10.5	7.0	17.0	17.5
371PLPSP-6M-8M	6	8	13.5	8.0	21.5	23.0
371PLPSP-8M-10M	8	10	16.0	10.5	24.5	26.5
371PLPSP-10M-12M	10	12	19.0	10.5	27.5	31.0

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

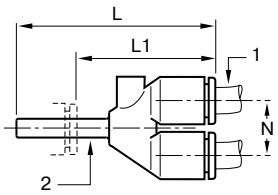




362PLPSP Plug-In Y

Part No.	1 Tube Size (in)	2 Tube Size (in)	L	L1	N
362PLPSP-2	1/8	1/8	1.36	1.00	.35
362PLPSP-4	1/4	1/4	1.60	1.02	.45
362PLPSP-6	3/8	3/8	2.23	1.42	.67



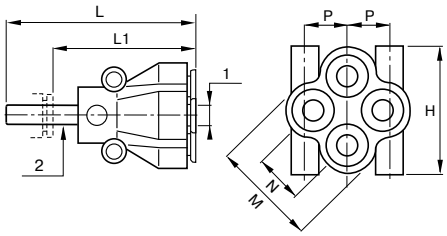


362PLPSP Plug-In Y

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	L	L1	N
362PLPSP-4M	4	4	34.0	21.5	9.0
362PLPSP-6M	6	6	39.5	25.5	11.0
362PLPSP-8M	8	8	50.5	32.0	14.5
362PLPSP-10M	10	10	57.5	36.0	17.0
362PLPSP-12M	12	12	66.0	41.0	20.0
362PLPSP-4M-6M	4	6	35.5	21.5	9.0
362PLPSP-6M-8M	6	8	44.0	25.5	11.0
362PLPSP-8M-10M	8	10	53.5	32.0	14.5
362PLPSP10M-12M	10	12	60.0	35.0	17.0

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



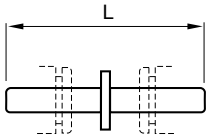


362PLPDSP Plug-In Multiple Y

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	H	L	L1	M	N
362PLPDSP-4M-6M	4	6	25.5	45.0	31.0	21.0	10.0
362PLPDSP-4M-8M	4	8	25.5	49.5	31.0	21.0	10.0
362PLPDSP-6M-8M	6	8	31.5	59.5	41.0	26.5	12.0

*Aluminum tail piece

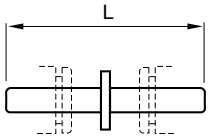




63PLP Double Male Union

Part No.	Tube Size (in)	L
63PLP-4	1/4	1.52
63PLP-6	3/8	2.03



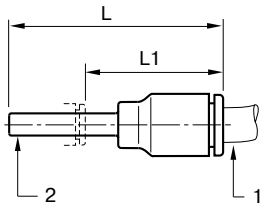


63PLP Double Male Union

Part No.	Tube Size (mm)	L
63PLP-4M	4	34 1/2
63PLP-6M	6	38 1/2
63PLP-8M	8	41
63PLP-10M	10	51 1/2
63PLP-12M	12	60
63PLP-14M	14	69 1/2

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

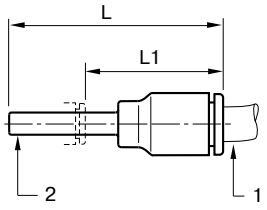




37PLP Tube Reducer

Part No.	1 Tube Size (in)	2 Tube Size (in)	L	L1
37PLP-2-4M	1/8	5/32 (4M)	1.79	1.32
37PLP-2-3	1/8	3/16	1.79	1.14
37PLP-2-4	1/8	1/4	1.79	1.22
37PLP-4M-3	5/32 (4mm)	3/16	1.48	.83
37PLP-4M-4	5/32 (4mm)	1/4	1.48	.91
37PLP-4M-6	5/32 (4mm)	3/8	1.61	.81
37PLP-3-8M	3/16	5/16 (8M)	1.79	1.06
37PLP-3-4	3/16	1/4	1.79	1.22
37PLP-4-8M	1/4	5/16 (8M)	1.61	.89
37PLP-4-6	1/4	3/8	1.61	.81
37PLP-4-8	1/4	1/2	1.97	.98
37PLP-8M-6	5/16 (8mm)	3/8	1.93	1.12
37PLP-8M-8	5/16 (8mm)	1/2	2.01	1.02
37PLP-6-8	3/8	1/2	2.01	1.04



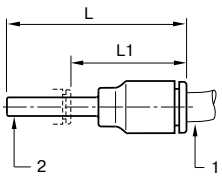


37PLP Tube Reducer

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	L	L1
37PLP-4M-6M	4	6	37.5	23.5
37PLP-4M-8M	4	8	37.5	19.0
37PLP-6M-8M	6	8	36.0	20.5
37PLP-4M-10M	4	10	44.0	22.5
37PLP-6M-10M	6	10	38.0	17.5
37PLP-8M-10M	8	10	49.0	28.5
37PLP-10M-12M	10	12	56.5	33.5
37PLP-6M-12M	6	12	46.0	23.0
37PLP-8M-12M	8	12	49.0	24.5
37PLP-10M-14M	10	14	58.5	33.5
37PLP-12M-14M	12	14	58.5	33.5
37PLP-6M-14M	6	14	48.0	23.0
37PLP-8M-14M	8	14	48.0	23.0

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

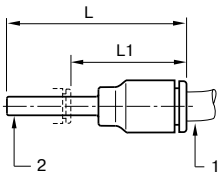




32PLPSP Tube Expander

Part No.	1 Tube Size (in)	2 Tube Size (in)	L	L1
32PLPSP-4-2	1/4	1/8	1.61	1.16
32PLPSP-4-6M	1/4	6M	1.75	1.02
32PLPSP-4-4M	1/4	5/32 (4mm)	1.61	1.14
32PLPSP-4-3	1/4	3/16	1.61	1.00
32PLPSP-6-4	3/8	1/4	1.58	1.00

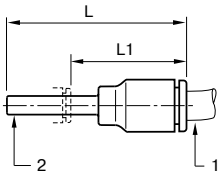




32PLPSP Tube Expander

Part No.	1 Tube Size (mm)	2 Tube Size (mm)	L	L1
32PLPSP-6M-4M	6	4	35.0	23.0
32PLPSP-8M-6M	8	6	45.0	31.5
32PLPSP-10M-8M	10	8	42.5	21.0
32PLPSP-12M-10M	12	10	49.0	24.5

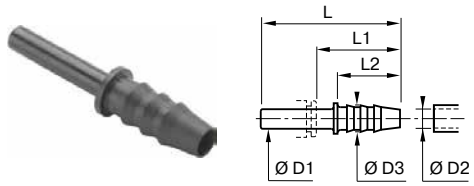




32PLPSP Tube Converter

Part No.	1 Tube Size (mm)	2 Tube Size (in)	L	L1
32PLPSP-4M-2	4M	1/8	1.61	1.16
32PLPSP-8M-4	8M	1/4	1.58	1.00

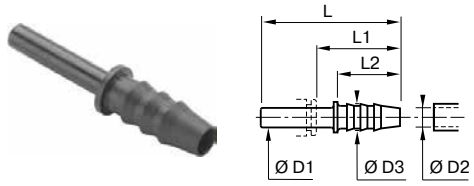
WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



322PLPSP Barbed Connector

Part No.	OD 1	OD 2	OD 3	L	L1	L2
322PLPSP-4M-2	5/32 (4mm)	.120	.20	1.46	.98	.67
322PLPSP-8M-4	5/16 (8mm)	.250	.34	1.55	.83	.67
322PLPSP-8M-8M	5/16 (8mm)	.320	.39	1.75	1.02	.87
322PLPSP-6-8M	3/8	.320	.39	1.97	1.16	.87
322PLPSP-8-6*	1/2	.375	.57	2.28	1.34	.87

*Nickel-plated brass. Dimensions for OD2 are I.D. of the tube.

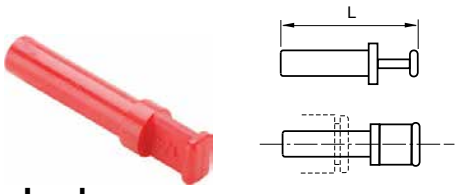


322PLPSP Barbed Connector

Part No.	OD 1	OD 2	OD 3	L	L1	L2
322PLPSP-4M-3M	4	3.2	5.0	37.0	25.0	17.0
322PLPSP-4M-5M	4	5.0	7.0	37.0	25.0	17.0
322PLPSP-6M-5M	6	5.0	7.0	39.0	25.0	17.0
322PLPSP-8M-6M	8	6.3	8.5	39.5	21.0	17.0
322PLPSP-8M-8M	8	8.0	10.0	44.5	26.0	22.0
322PLPSP-10M-6M	10	6.3	8.0	45.0	24.5	17.0
322PLPSP-10M-8M	10	8.0	10.0	50.0	29.5	22.0
322PLPSP-12M-8M	12	8.0	10.0	50.0	26.0	22.0
322PLPSP-12M-10M	12	10.0	12.0	48.5	25.5	22.5
322PLPSP-12M-12M	12	12.5	14.5	57.0	34.0	22.5
322PLPSP-14M-12M	14	12.5	14.5	59.5	34.5	22.5

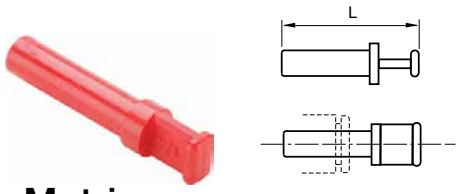
*Nickel-plated brass. Dimensions for OD2 are I.D. of the tube.

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



639PLP Plug Inch

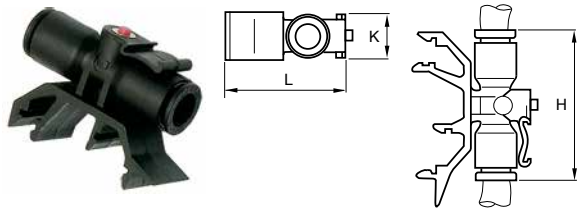
Part No.	Tube Size	L
639PLP-2	1/8	1.30
639PLP-3	3/16	1.36
639PLP-4	1/4	1.44
639PLP-6	3/8	1.67
639PLP-8	1/2	1.91



639PLP Plug Metric

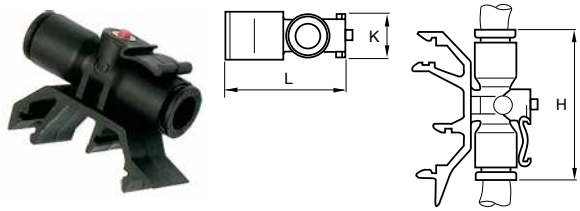
Part No.	Tube Size	L
639PLP-3M	3	25
639PLP-4M	4	30
639PLP-6M	6	33
639PLP-8M	8	33
639PLP-10M	10	42
639PLP-12M	12	45
639PLP-14M	14	49
639PLP-16M*	16	57

* Nickel Plated Brass



32PLPRC Connector for 2 Tubes

Part No.	Tube Size (in)	H	K	L
32PLPRC-4	1/4	1.44	.47	1.18

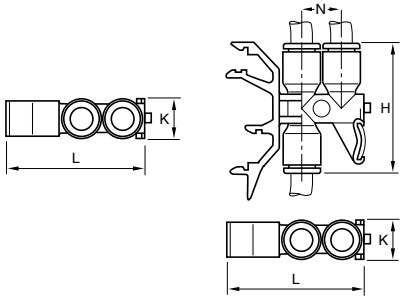


32PLPRC Connector for 2 Tubes

Part No.	Tube Size (mm)	H	K	L
32PLPRC-4M	4	36.5	11.0	39.5
32PLPRC-6M	6	36.5	11.0	39.5
32PLPRC-8M	8	46.0	13.0	44.5

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

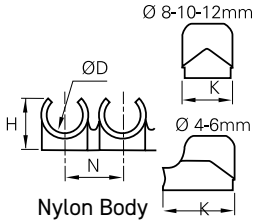




32PLPDRC Connector for 3 Tubes

Part No.	Tube Size (mm)	H	K	L	N
32PLPDRC-4M	4	36.5	11.0	39.5	
32PLPDRC-6M	6	36.5	11.0	39.5	
32PLPDRC-8M	8	46.0	13.0	14.5	





Clip Strips for Tubing and Fittings

Part No.	D Tube	LF3000 to be clipped	H (mm)	K (mm)	N (mm)	No. per strip
CLIP 04 00	5/32, 4mm	–	9	13.5	10.5	8
CLIP 06 00	1/4, 3/16, 6mm	–	10.5	13	10.5	8
CLIP 08 00	5/16, 8mm	5/32, 4mm	12.5	10.5	12	7
CLIP 10 00	3/8, 10mm	1/4, 6mm	14	12	15	6
CLIP 12 00	1/2, 12mm		16.5	14	16.5	5
CLIP 14 00	14mm	5/16, 8mm	18	16	20.5	4

Clip strips come complete with screws of .512 inches in length.

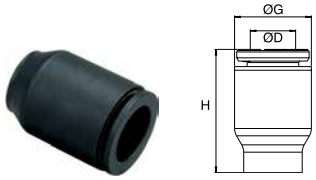
WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Nylon Body

3151 End Caps

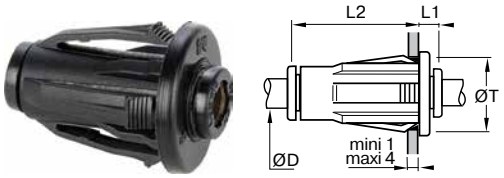
Part No.	D (in)	G (mm)	H (mm)
3151 53 00	1/8	.33	.55
3151 04 00	5/32	.33	.55
3151 56 00	1/4	.41	.64
3151 08 00	5/16	.53	.86
3151 60 00	3/8	.53	.86



Nylon Body

3151 End Caps

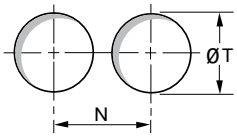
Part No.	D (mm)	G (mm)	H (mm)
3151 04 00	4	8.5	14.7
3151 06 00	6	10.5	16.9
3151 08 00	8	13.5	21.9
3151 10 00	10	16	22.2
3151 12 00	12	19	27.7



32PLPBHP Plug-in Bulkhead Union

Part No.	Tube Size (in)	L1	L2	ØT
32PLPBHP-4	1/4	.26	1.240	.75
32PLPBHP-8M	5/16 (8mm)	.30	1.280	.87
32PLPBHP-6	3/8	.30	1.630	1.12

Minimum distance between fittings.
Diameter of fixing hole.



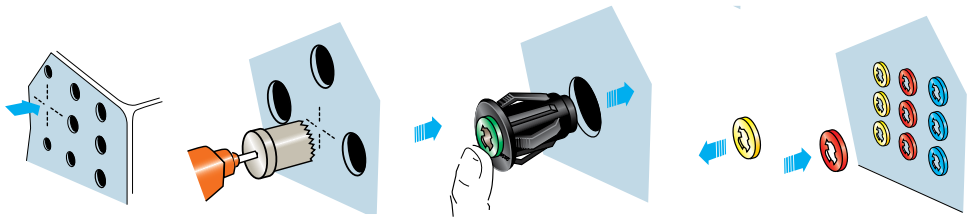
Fixing Hole

D		5/32	1/4	5/16	3/8	1/2
T	inches	5/8”	3/4”	7/8”	1 1/8”	1 1/4”
	mm	15.87	19.05	22.22	28.57	31.75
N	in	.89	1.00	1.08	1.34	1.50

Tolerance T: +0.3 -0.1

Installation

1. Mark out the fixing hole
2. Make hole in panel
3. Simply push the fitting into place
4. To complete the installation
5. To identify circuits simply remove the black release button and replace with colored one



WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

AQRT - Quick Release Tool

Makes disconnection of tube adapters and tubing a breeze.





3110 - 3330 Caps Manual Release Button - Inch

Tube O.D.	White Part No.	Black Part No.	Green Part No.	Red Part No.	Blue Part No.	Yellow Part No.
1/8	3110 53 00	-	3110 53 02	3110 53 03	3110 53 04	3110 53 05
5/32	3110 04 00	3330 04 01	3110 04 02	3110 04 03	3110 04 04	3110 04 05
3/16	3330 55 00	3330 55 01	3330 55 02	3330 55 03	3330 55 04	3330 55 05
1/4	3110 56 00	3330 56 01	3110 56 02	3110 56 03	3110 56 04	3110 56 05
5/16	3110 08 00	-	3110 08 02	3110 08 03	3110 08 04	3110 08 05
3/8	3110 60 00	-	-	-	3110 60 04	3110 60 05
1/2	3110 62 00	3330 62 01	3110 62 02	3110 62 03	3110 62 04	3110 62 05

3110 - 3330 Caps Manual Release Button - Metric

Tube (mm)	White Part No.	Black Part No.	Green Part No.	Red Part No.	Blue Part No.	Yellow Part No.
4	3110 04 00	3330 04 01	3110 04 02	3110 04 03	3110 04 04	3110 04 05
6	3110 06 00	3330 06 01	3110 06 02	3110 06 03	3110 06 04	3110 06 05
8	3110 08 00	-	3110 08 02	3110 08 03	3110 08 04	3110 08 05
10	3110 10 00	-	3110 10 02	3110 10 03	3110 10 04	3110 10 05
12	3110 12 00	-	3110 12 02	3110 12 03	3110 12 04	3110 12 05
14	3110 14 00	-	3110 14 02	3110 14 03	3110 14 04	3110 14 05

In all sizes of the LF3000 fittings, except 3/16, the push button is an integral part of the design which makes it non-removable, and comes standard in black. For identification of the circuits, colored caps (p/n 3110) fit over the black push button.

On the 3/16 sizes, the buttons are removable and can be replaced with a button of another color (p/n 3330).

Six colors are available which allow color coding of the fitting, in association with tubes of the same color.

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

OSCILLATING ELBOWS

Parker's oscillating fittings are designed to satisfy the requirements of industrial automation and robotics. The oscillating fitting features low-friction washers enabling the fitting to rotate in conjunction with The stroke of the cylinder piston.

Product Features:

- Glass reinforced nylon 6.6 body
- Nylon collar
- Stainless Steel gripping ring
- Nitrile D seal
- Nitrile o-ring
- Nickel-plated brass threads

Markets:

- Robotics
- Pneumatics
- Textile
- Packaging
- Semi-conductors

Applications:

- Air
- Cutting Fluids
- Inert Gases

Specifications:

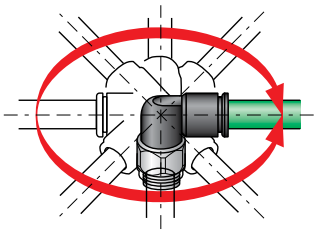
Pressure Range	Up to 290 PSI (19.9 bar) depending on tubing
Temperature Range	-4° to +175° F (-20° to +79.4° C)

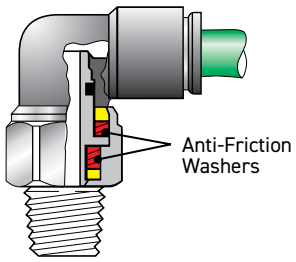
Compatible Tubing:

- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer

Assembly Instructions

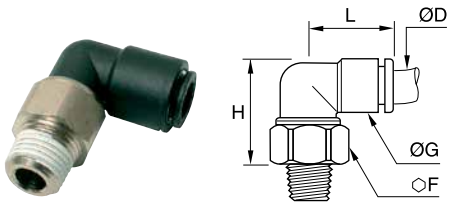
1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.





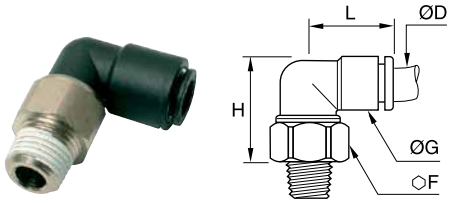
O.D. Tube (in and mm)	5/32 & 4	1/4 & 6	8	10	12
"Maximum rotation speed in radian/second"	190	160	120	90	80

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



W369PLPO Oscillating Compact Elbow - NPT

Part No.	Tube Size (in)	NPT	F	G	H	L
W369PLPO-4M-2	5/32(4mm)	1/8	12	.43	.85	.69
W369PLPO-4-2	1/4	1/8	14	.55	1.04	.81
W369PLPO-4-4	1/4	1/4	14	.55	1.04	.81

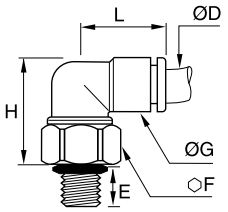


W369PLPO Oscillating Compact Elbow - BSPT

Part No.	Tube Size (mm)	BSPT	F	G	H	L
W369PLPO-4M-2R	4	1/8	12	11.0	22.0	17.5
W369PLPO-6M-2R	6	1/8	14	14.0	26.5	20.5
W369PLPO-6M-4R	6	1/4	14	14.0	23.5	20.5
W369PLPO-8M-2R	8	1/8	17	16.0	32.0	23.5
W369PLPO-8M-4R	8	1/4	17	16.0	29.0	23.5
W369PLPO-8M-6R	8	3/8	17	16.0	25.0	23.5
W369PLPO-10M-4R	10	1/4	19	19.5	37.5	29.0
W369PLPO-10M-6R	10	3/8	19	19.5	33.5	29.0
W369PLPO-12M-4R	12	1/4	21	22.0	44.5	33.5
W369PLPO-12M-6R	12	3/8	21	22.0	41.0	33.5

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov





369PLPO Oscillating Compact Elbow - BSPP, M5

Part No.	Tube Size (mm)	M5/BSPP	E	F	G	H	L
369PLPO-4M-M5	4	M5X0.8	3.0	12	11.0	24.5	17.5
369PLPO-4M-2G	4	1/8	5.0	13	11.0	23.0	17.5
369PLPO-6M-M5	6	M5X0.8	3.0	12	14.0	27.5	20.5
369PLPO-6M-2G	6	1/8	5.0	14	14.0	27.0	20.5
369PLPO-6M-4G	6	1/4	5.5	16	14.0	25.5	20.5
369PLPO-8M-2G	8	1/8	5.0	17	16.0	33.5	23.5
369PLPO-8M-4G	8	1/4	5.5	17	16.0	31.0	23.5
369PLPO-8M-6G	8	3/8	5.5	20	16.0	29.5	23.5
369PLPO-10M-4G	10	1/4	5.5	19	19.5	50.0	29.0
369PLPO-10M-6G	10	3/8	5.5	20	19.5	37.0	29.0
369PLPO-12M-4G	12	1/4	5.5	21	22.0	46.5	33.5
369PLPO-12M-6G	12	3/8	5.5	21	22.0	45.5	33.5

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

PRESTOLOK PLM
Metal Push-to-Connect Fittings

To meet your technical and environment requirements, Parker's Prestolok PLM fittings offers the robustness, reliability and resistance to industrial fluids for the most demanding environments.

Product Features:

- High phosphorous, FDA-compliant, chemical resistant, nickel-plated collet and body
- FKM seal
- Chemical, corrosion, and abrasion resistance
- NPT, BSPT, BSPP, and metric threads
- Silicone Free

Markets:

- Industrial
- Chemical
- Life Science
- Automation
- Food Processing

Compatible Media:

- Food Fluids
- Harsh Detergents
- Cleaning In Cold/Hot Water
- Steam
- Oils
- Compressed Air
- Inert Gases

Specifications:

Pressure Range	Up to 435 psi (30 bar) 290 psi (19.9 bar) for 169PLM
Temperature Range	-13° to +302° F (-25° to +150° C)
Vacuum Rating	28" Hg

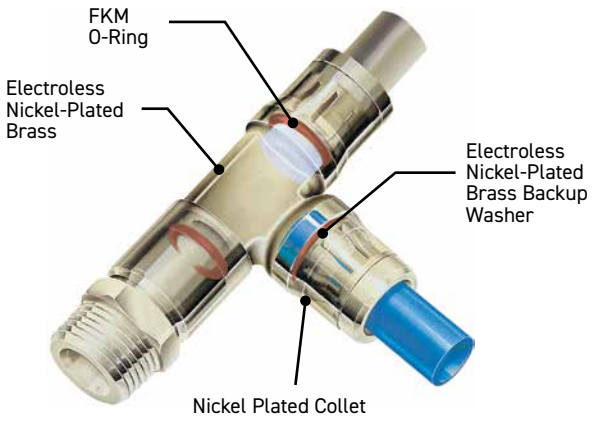
Note: Maximum pressure and temperature range depend on the type of tubing used.

Compatible Tubing:

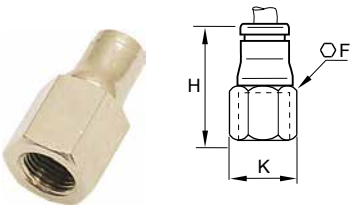
- Polyethylene
- Polyurethane 95 Durometer Shore A
- FEP
- Nylon

Assembly Instructions

1. Cut tubing squarely maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

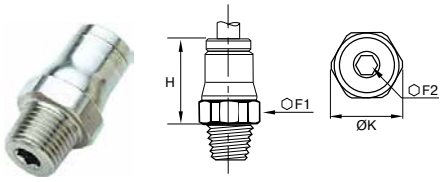


WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



66PLM Female Connector Metric Tube to BSPP or M5

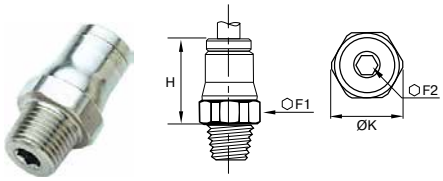
Part No.	Tube Size (mm)	BSPP/M5	F (mm)	H (mm)	K (mm)
66PLM-4M-M5	4	M5X0.8	10	22.00	11.00
66PLM-4M-2G	4	1/8	14	25.00	15.00
66PLM-4M-4G	4	1/4	17	29.00	18.50
66PLM-6M-2G	6	1/8	14	27.50	15.00
66PLM-6M-4G	6	1/4	17	31.50	18.50
66PLM8M-2G	8	1/8	15	28.50	16.00
66PLM-8M-4G	8	1/4	17	32.50	18.50
66PLM-10M-6G	10	3/8	22	38.00	24.00
66PLM-12M-6G	12	3/8	22	39.00	24.00
66PLM-12M-8G	12	1/2	24	43.50	26.00



68PLM Male Connector Inch Tube to NPT/UNF

ParT no.	Tube Size (in)	NPT/UNF	F1 (mm)	F2 (mm)	H (in)	K (in)
68PLM-4M-0	5/32(4MM)	10-32	10	2.5	.61	.43
68PLM-4M-2	5/32(4MM)	1/8	11	3.0	.59	.47
68PLM-4-0	1/4	10-32	13	2.5	.75	.55
68PLM-4-2	1/4	1/8	13	4.0	.67	.55
68PLM-4-4	1/4	1/4	14	4.0	.67	.59
68PLM-4-6	1/4	3/8	18	5.0	.67	.77
68PLM-6-2	3/8	1/8	18	4.0	.97	.77
68PLM-6-4	3/8	1/4	18	7.0	.95	.77
68PLM-6-6	3/8	3/8	18	8.0	.91	.77
68PLM-6-8	3/8	1/2	22	8.0	.95	.94

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

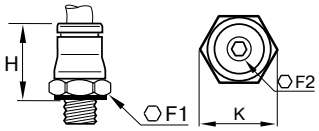


68PLM Male Connector Metric Tube to BSPT

ParT no.	Tube Size (mm)	BSPT	F1 (mm)	F2 (mm)	H (mm)	K (mm)
68PLM-4M-2R	4	1/8	10	3	15.00	11.00
68PLM-4M-4R	4	1/4	14	3	15.00	15.00
68PLM-6M-2R	6	1/8	13	4	17.00	14.00
68PLM-6M-4R	6	1/4	14	4	17.00	15.00
68PLM-8M-2R	8	1/8	15	5	19.00	16.00
68PLM-8M-4R	8	1/4	15	6	18.00	16.00
68PLM-8M-6R	8	3/8	17	6	18.50	18.50
68PLM-10M-4R	10	1/4	18	7	23.00	19.50
68PLM-10M-6R	10	3/8	18	8	22.50	19.50
68PLM-10M-8R	10	1/2	22	8	22.50	24.00
68PLM-12M-4R	12	1/4	20	7	25.50	22.00
68PLM-12M-6R	12	3/8	20	9	24.00	22.00
68PLM-12M-8R	12	1/2	22	10	23.00	24.00
68PLM-14M-6R	14	3/8	22	9	27.00	24.00
68PLM-14M-8R	14	1/2	24	11	26.00	26.00

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

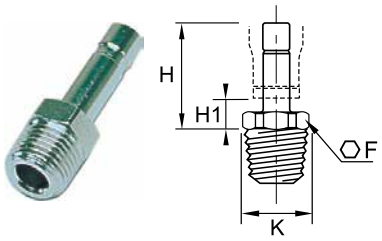




68PLM Male Connector Tube to UNF, BSPP or Metric

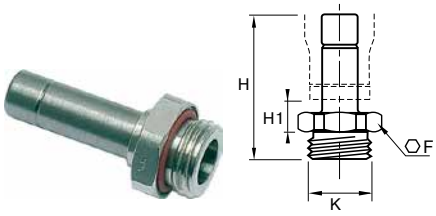
Part No.	Tube Size (mm)	BSPP/Metric	F1 (mm)	F2 (mm)	H (mm)	K (mm)
68PLM-4M-M5	4	M5X0.8	10	2.50	15.50	11.00
68PLM-4M-M6	4	M6X1	13	3.00	14.50	14.00
68PLM-4M-2G	4	1/8	10	3.00	16.00	11.00
68PLM-4M-4G	4	1/4	16	3.00	14.50	17.50
68PLM-4M-M8	4	M8X1	11	3.00	14.50	12.00
68PLM-6M-M5	6	M5X0.8	13	2.50	19.00	14.00
68PLM-6M-2G	6	1/8	13	4.00	17.50	14.00
68PLM-6M-M10	6	M10X1	13	4.00	17.50	14.00
68PLM-6M-4G	6	1/4	16	4.00	17.00	17.50
68PLM-8M-2G	8	1/8	15	5.00	20.00	16.00
68PLM-8M-4G	8	1/4	16	6.00	18.00	17.50
68PLM-8M-6G	8	3/8	20	6.00	19.00	22.00
68PLM-10M-4G	10	1/4	18	7.00	25.00	19.50
68PLM-10M-6G	10	3/8	20	8.00	22.50	22.00
68PLM-10M-8G	10	1/2	24	8.00	22.50	26.00
68PLM-12M-4G	12	1/4	20	7.00	27.00	22.00
68PLM-12M-6G	12	3/8	20	9.00	26.00	22.00
68PLM-12M-8G	12	1/2	24	10.00	23.50	26.00
68PLM-14M-6G	14	3/8	22	9.00	28.00	24.00
68PLM-14M-8G	14	1/2	24	11.00	26.50	26.00

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



68PLMSP Male Stud Standpipe Metric Tube to BSPT

ParT no.	Tube Size (mm)	BSPT	F (mm)	H (mm)	H1 (mm)	K (mm)
68PLMSP-4M-2R	4	1/8	10	21.00	7.00	11.00
68PLMSP-6M-2R	6	1/8	10	23.50	6.50	11.00
68PLMSP-6M-4R	6	1/4	10	23.50	6.50	15.00
68PLMSP-8M-2R	8	1/8	10	24.00	6.50	11.00
68PLMSP-8M-4R	8	1/4	14	24.00	6.50	15.00
68PLMSP-10M-4R	10	1/4	14	22.00	6.50	15.00
68PLMSP-10M-6R	10	3/8	17	30.00	7.50	18.50
68PLMSP-12M-6R	12	3/8	17	31.00	7.50	18.50
68PLMSP-12M-8R	12	1/2	22	38.00	7.50	24.00

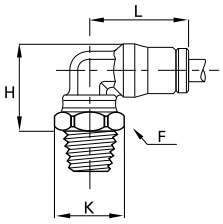


68PLMSP Male Standpipe Metric Tube to BSPP or M5

Part No.	Tube Size (mm)	BSPP/M5	F (mm)	H (mm)	H1 (mm)	K (mm)
68PLMSP-4M-M5	4	M5X0.8	13	25.50	7.00	14.00
68PLMSP-4M-2G	4	1/8	16	26.50	7.00	17.50
68PLMSP-4M-4G	4	1/4	8	25.00	7.50	8.70
68PLMSP-6M-2G	6	1/8	13	28.00	6.50	14.00
68PLMSP-6M-4G	6	1/4	16	29.00	6.50	17.50
68PLMSP-8M-2G	8	1/8	13	28.50	6.50	14.00
68PLMSP-8M-4G	8	1/4	16	29.50	6.50	17.50
68PLMSP-8M-6G	8	3/8	20	30.50	7.50	22.00
68PLMSP-10M-4G	10	1/4	16	34.50	6.50	17.50
68PLMSP-10M-6G	10	3/8	20	35.50	7.50	22.00
68PLMSP-10M-8G	10	1/2	24	37.00	7.50	26.00
68PLMSP-12M-6G	12	3/8	20	36.50	7.50	22.00
68PLMSP-12M-8G	12	1/2	24	38.00	7.50	26.00
68PLMSP-14M-8G	14	1/2	24	40.00	8.00	26.00

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

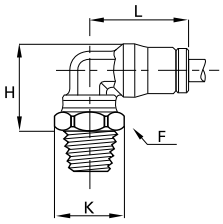




169PLM Male Elbow Inch Tube to NPT, UNF

Part No.	Tube Size (in)	NPT/UNF	F (mm)	H (in)	K (in)	L (in)
169PLM-4M-2	5/32(4MM)	1/8	11	.59	.47	.71
169PLM-4M-4	5/32(4MM)	1/4	14	.67	.60	.71
169PLM-4-2	1/4	1/8	11	.69	.47	.87
169PLM-4-4	1/4	1/4	14	.75	.60	.87
169PLM-4-6	1/4	3/8	18	.75	.77	.87
169PLM-6-4	3/8	1/4	15	.93	.63	1.14
169PLM-6-6	3/8	3/8	18	1.02	.77	1.14
169PLM-8-6	1/2	3/8	18	1.14	.77	1.22
169PLM-8-8	1/2	1/2	22	1.14	.94	1.22



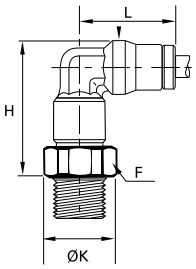


169PLM Male Elbow Metric Tube to BSPT

Part No.	Tube Size (mm)	BSPT	F (mm)	H (mm)	K (mm)	L (mm)
169PLM-4M-2R	4	1/8	11	15.00	12.00	18.00
169PLM-4M-4R	4	1/4	14	17.00	15.00	18.00
169PLM-6M-2R	6	1/8	11	17.50	12.00	21.50
169PLM-6M-4R	6	1/4	14	19.00	15.00	21.50
169PLM-8M-2R	8	1/8	11	19.50	12.00	23.50
169PLM-8M-4R	8	1/4	14	21.00	15.00	23.50
169PLM-8M-6R	8	3/8	17	21.00	18.50	23.50
169PLM-10M-4R	10	1/4	15	23.50	16.00	29.00
169PLM-10M-6R	10	3/8	17	25.50	18.50	29.00
169PLM-12M-4R	12	1/4	15	26.00	16.00	31.00
169PLM-12M-6R	12	3/8	17	28.50	18.50	31.00
169PLM-12M-8R	12	1/2	21	28.50	23.00	31.00
169PLM-14M-6R	14	3/8	19	29.00	21.00	34.00
169PLM-14M-8R	14	1/2	24	30.00	26.00	34.00

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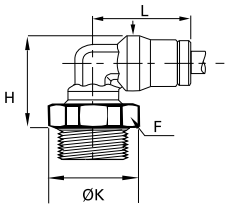




169PLMX Extended Male Elbow Metric Tube to BSPT

Part No.	Tube Size (mm)	BSPT	F (mm)	H (mm)	K (mm)	L (mm)
169PLMX-4M-2R	4	1/8	10	24.50	11.00	18.00
169PLMX-6M-2R	6	1/8	13	29.50	14.00	21.50
169PLMX-6M-4R	6	1/4	14	30.50	15.00	21.50
169PLMX-8M-2R	8	1/8	14	32.50	15.00	23.50
169PLMX-8M-4R	8	1/4	14	34.00	15.00	23.50
169PLMX-10M-4R	10	1/4	18	39.00	19.50	29.00



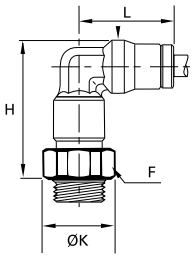


169PLM Male Elbow Tube to BSPP, Metric

Part No.	Tube Size (mm)	BSPP/Metric	F (mm)	H (mm)	K (mm)	L (mm)
169PLM-4M-M5	4	M5X0.8	10	18.00	11.00	18.00
169PLM-4M-2G	4	1/8	13	17.00	14.00	18.00
169PLM-4M-M6	4	M6X1	10	18.00	11.00	18.00
169PLM-4M-4G	4	1/4	16	17.50	17.50	18.00
169PLM-4M-M8	4	M8X1	11	18.00	12.00	18.00
169PLM-6M-M5	6	M5X0.8	10	20	14	22
169PLM-6M-2G	6	1/8	13	19.00	14.00	21.50
169PLM-6M-M10	6	M10X1	13	19.00	14.00	21.50
169PLM-6M-4G	6	1/4	16	19.50	17.50	21.50
169PLM-8M-2G	8	1/8	13	20.50	14.00	23.50
169PLM-8M-4G	8	1/4	16	21.50	17.50	23.50
169PLM-8M-6G	8	3/8	20	21.50	22.00	23.50
169PLM-10M-4G	10	1/4	16	27.00	17.50	29.00
169PLM-10M-6G	10	3/8	20	25.50	22.00	29.00
169PLM-12M-4G	12	1/4	16	29.50	17.50	31.00
169PLM-12M-6G	12	3/8	20	28.50	22.00	31.00
169PLM-12M-8G	12	1/2	24	28.50	26.00	31.00
169PLM-14M-6G	14	3/8	20	29.00	22.00	34.00
169PLM-14M-8G	14	1/2	24	29.50	26.00	34.00

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

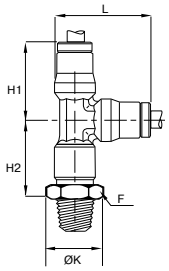




169PLMX Extended Male Elbow Metric Tube to BSPP or M5

Part No.	Tube Size (mm)	BSPP/M5	F (mm)	H (mm)	K (mm)	L (mm)
169PLMX-4M-M5	4	M5X0.8	10	27.50	11.00	18.00
169PLMX-4M-2G	4	1/8	13	25.50	14.00	18.00
169PLMX-6M-2G	6	1/8	13	31.00	14.00	18.00
169PLMX-6M-4G	6	1/4	16	30.50	17.50	21.50
169PLMX-8M-2G	8	1/8	14	33.50	15.00	23.50
169PLMX-8M-4G	8	1/4	16	34.00	17.50	23.50
169PLMX-10M-4G	10	1/4	18	42.00	19.50	29.00
169PLMX-10M-6G	10	3/8	20	41.00	22.00	29.00
169PLMX-12M-4G	12	1/4	20	47.00	22.00	31.00
169PLMX-12M-6G	12	3/8	20	46.00	22.00	31.00
169PLMX-14M-8G	14	1/2	24	49.00	26.00	34.00





171PLM Male Run Tee Inch Tube to Tube to NPT, UNF

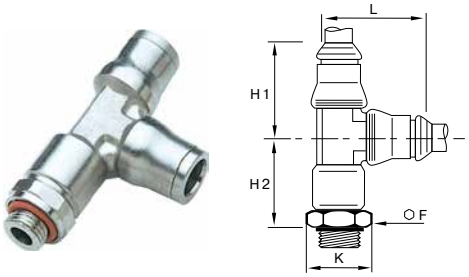
ParT NO.	Tube Size (in)	NPT/UNF	F (mm)	H1 (in)	H2 (in)	K (in)	L (in)
171PLM-4M-2	5/32(4MM)	1/8	11	.71	.77	.47	.91
171PLM-6-8	3/8	1/2	22	1.14	1.28	.94	1.48
171PLM-8-6	1/2	3/8	22	1.22	1.46	.94	1.61

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



171PLM Male Run Tee Metric Tube to Tube to BSPT

ParT no.	Tube Size (mm)	BSPT	F (mm)	H1 (mm)	H2 (mm)	K (mm)	L (mm)
171PLM-4M-2R	4	1/8	10	18.00	19.50	11.00	23.00
171PLM-6M-2R	6	1/8	13	21.50	23.50	14.00	28.00
171PLM-6M-4R	6	1/4	14	21.50	24.50	15.00	28.00
171PLM-8M-2R	8	1/8	14	23.50	25.00	15.00	31.00
171PLM-8M-4R	8	1/4	14	23.50	26.50	15.00	31.00
171PLM-10M-4R	10	1/4	18	29.00	30.50	19.50	37.50
171PLM-10M-6R	10	3/8	18	29.00	32.50	19.50	37.50
171PLM-12M-6R	12	3/8	21	31.00	36.50	23.00	40.50
171PLM-14M-8R	14	1/2	22	34.00	40.00	24.00	45.00

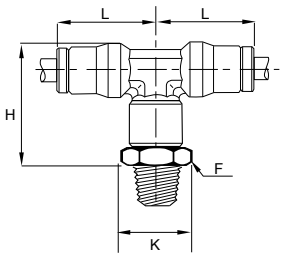


171PLM Male Run Tee Tube to Tube to BSPP or M5

Part No.	Tube Size (mm)	BSPP/M5	F (mm)	H1 (mm)	H2 (mm)	K (mm)	L (mm)
171PLM-4M-M5	4	M5X0.8	10	18.00	22.50	11.00	23.00
171PLM-6M-2G	6	1/8	13	21.50	25.00	14.00	28.00
171PLM-6M-4G	6	1/4	16	21.50	24.50	17.50	28.00
171PLM-8M-2G	8	1/8	14	23.50	26.50	15.00	31.00
171PLM-8M-4G	8	1/4	16	23.50	26.50	17.50	31.00
171PLM-10M-4G	10	1/4	18	29.00	33.00	19.50	37.50
171PLM-12M-6G	12	3/8	21	31.00	36.50	23.00	40.50
171PLM-14M-8G	14	1/2	24	34.00	38.50	26.00	45.00

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

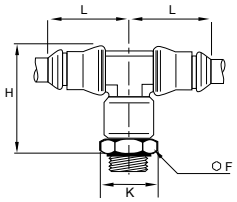




172PLM Male Branch Tee Metric Tube to BSPT

ParT NO.	Tube Size (mm)	BSPT	F (mm)	H (mm)	K (mm)	L (mm)
172PLM-4M-2R	4	1/8	10	24.50	11.00	18.00
172PLM-6M-2R	6	1/8	13	29.50	14.00	21.50
172PLM-6M-4R	6	1/4	14	30.50	15.00	21.50
172PLM-8M-2R	8	1/8	14	32.50	15.00	23.50
172PLM-8M-4R	8	1/4	14	34.00	15.00	23.50
172PLM-10M-4R	10	1/4	18	39.00	19.50	29.00
172PLM-10M-6R	10	3/8	18	41.00	19.50	29.00
172PLM-12M-6R	12	3/8	21	46.50	23.00	31.00
172PLM-14M-8R	14	1/2	22	50.50	24.00	34.00



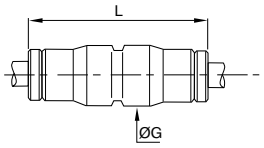


172PLM Male Branch Tee Tube to BSPP or M5

Part No.	Tube Size (mm)	BSPP/M5	F (mm)	H (mm)	K (mm)	L (mm)
172PLM-4M-M5	4	M5X0.8	10	27.50	11.00	18.00
172PLM-4M-2G	4	1/8	13	25.50	14.00	18.00
172PLM-6M-2G	6	1/8	13	31.00	14.00	21.50
172PLM-6M-4G	6	1/4	16	30.50	17.50	21.50
172PLM-8M-2G	8	1/8	14	33.50	15.00	23.50
172PLM-8M-4G	8	1/4	16	34.00	17.50	23.50
172PLM-10M-4G	10	1/4	18	42.00	19.50	29.00
172PLM-12M-6G	12	3/8	21	46.00	23.00	31.00
172PLM-14M-8G	14	1/2	24	49.00	26.00	34.00

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

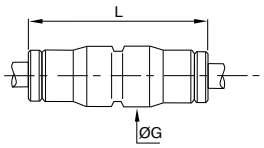




62PLM Straight Union Inch Tube to Tube

Part No.	Tube Size (in)	G (in)	L (in)
62PLM-4	1/4	.49	1.44
62PLM-8	1/2	.79	1.89

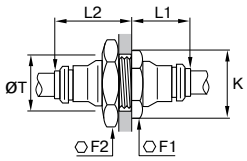




62PLM Straight Union Metric Tube to Tube

Part No.	Tube Size (mm)	G (mm)	L (mm)
62PLM-4M	4MM(5/32)	10.00	30.50
62PLM-6M	6	12.00	36.50
62PLM-8M	8MM(5/16)	15.00	37.50
62PLM-10M	10	17.50	47.50
62PLM-12M	12	19.50	50.00
62PLM-14M	14	21.50	52.50



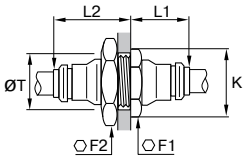


62PLMBH Bulkhead Connector Inch Tube to Tube

Part No.	Tube Size (in)	F1 (mm)	F2 (mm)	K (in)	L1 (in)	L2 (in)	T (in)
62PLMBH-6	3/8	22	27	.95	.87	1.10	.85

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

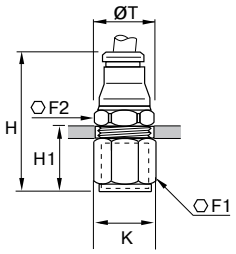




62PLMBH Bulkhead Connector Metric Tube to Tube

Part No.	Tube Size (mm)	F1 (mm)	F2 (mm)	K (mm)	L1 (mm)	L2 (mm)	T (mm)
62PLMBH-4M	4MM(5/32)	13	14	14.00	14.00	20.00	12.50
62PLMBH-6M	6	16	17	17.50	17.00	22.00	15.00
62PLMBH-8M	8MM(5/16)	18	19	19.50	18.50	23.50	17.00
62PLMBH-10M	10	22	27	24.00	21.50	26.50	21.00
62PLMBH-12M	12	24	24	26.00	23.00	27.00	23.00
62PLMBH-14M	14	27	27	29.50	25.50	29.50	25.00



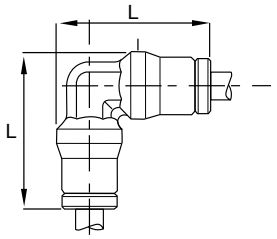


66PLMBH Female Bulkhead Connector Metric Tube to BSPP

Part No.	Tube Size (mm)	BSPP	F1 (mm)	F2 (mm)	H (mm)	H1 (mm)	K (mm)	T (mm)
66PLMBH-4M-2G	4	1/8	14	14	30.50	11.00	15.00	13
66PLMBH-6M-2G	6	1/8	17	17	32.50	11.00	18.50	15
66PLMBH-6M-4G	6	1/4	17	17	37.00	15.00	18.50	15
66PLMBH-8M-2G	8	1/8	19	19	34.00	10.50	21.00	17
66PLMBH-8M-4G	8	1/4	19	19	38.00	14.50	21.00	17
66PLMBH-10M-6G	10	3/8	22	27	42.50	16.00	24.00	21
66PLMBH-12M-6G	12	3/8	24	24	43.00	16.00	26.00	23
66PLMBH-12M-8G	12	1/2	27	24	48.50	21.50	29.50	23

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

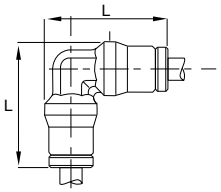




165PLM Union Elbow Inch Tube

Part No.	Tube Size (in)	L (in)
165PLM-4	1/4	1.12

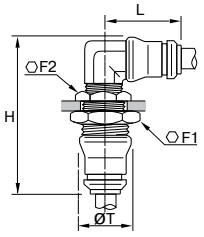




165PLM Union Elbow Metric Tube

Part No.	Tube Size (mm)	L (mm)
165PLM-4M	4MM(5/32)	23.00
165PLM-6M	6	28.00
165PLM-8M	8MM(5/16)	31.00
165PLM-10M	10	37.50
165PLM-12M	12	40.50
165PLM-14M	14	45.00



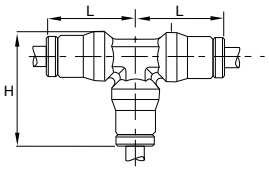


165PLMBH Bulkhead Elbow Metric Tube

Part No.	Tube Size (mm)	F1 (mm)	F2 (mm)	H (mm)	L (mm)	T (mm)
165PLMBH-4M	4	13	14	35.00	18.00	12.50
165PLMBH-6M	6	16	17	40.50	21.50	15.00
165PLMBH-8M	8	18	19	44.00	23.50	17.00
165PLMBH-10M	10	22	27	51.00	29.00	21.00
165PLMBH-12M	12	24	24	55.00	31.00	23.00
165PLMBH-14M	14	27	27	59.00	34.00	25.00

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

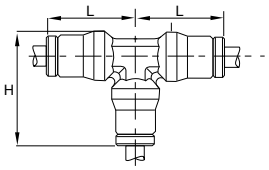




164PLM Union Tee Inch Tube

Part No.	Tube Size (in)	H (in)	L (in)
164PLM-6	3/8	1.48	1.14

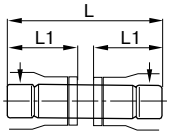




164PLM Union Tee Metric Tube

Part No.	Tube Size (mm)	H (mm)	L (mm)
164PLM-4M	4MM(5/32)	23.00	18.00
164PLM-6M	6	28.00	21.50
164PLM-8M	8MM(5/16)	31.00	23.50
164PLM-10M	10	37.50	29.00
164PLM-12M	12	40.50	31.00
164PLM-14M	14	45.00	34.00

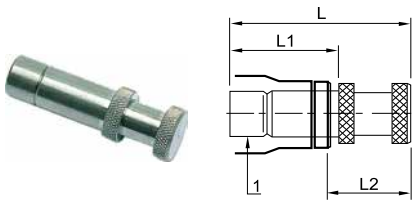




63PLM Double Male Union Metric

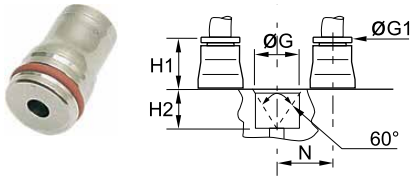
Part No.	Tube Size (mm)	L (mm)	L1 (mm)
63PLM-4M	4	31.00	14.00
63PLM-6M	6	36.50	17.00
63PLM-8M	8	37.50	17.50
63PLM-10M	10	47.50	22.50
63PLM-12M	12	49.50	23.50
63PLM-14M	14	53.00	25.00

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



639PLM Plug Metric

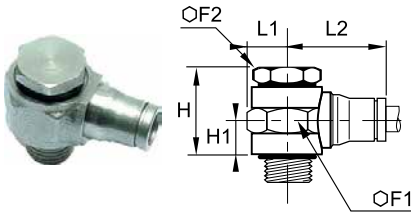
Part No.	Tube 1 Size (mm)	L (mm)	L1 (mm)	L2 (mm)
639PLM-4M	4	25.50	17.00	11.50
639PLM-6M	6	30.50	19.50	13.50
639PLM-8M	8	33.00	20.00	16.00
639PLM-10M	10	40.00	25.00	18.00
639PLM-12M	12	43.00	26.00	20.00
639PLM-14M	14	47.00	28.00	22.50



PLMC Cartridge

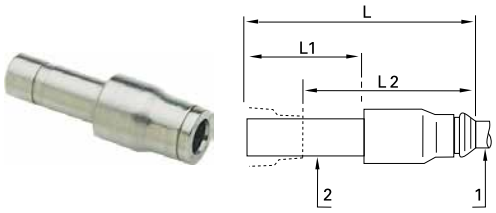
Part No.	Tube Size (mm)	G + .1 - 0	H1 (mm)	H2 (mm)	N (mm)
PLMC-4M	4	10.00	9.00	8.50	11.00
PLMC-6M	6	12.00	11.00	8.50	13.50
PLMC-8M	8	15.00	12.50	8.50	16.00
PLMC-10M	10	17.50	14.50	10.50	20.00
PLMC-12M	12	19.50	15.00	10.50	22.50
PLMC-14M	14	21.50	16.50	12.00	25.00

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



169PLMBJ Single Banjo Metric Tube to BSPP or M5

Part No.	Tube Size (mm)	BSPP/M5	F1 (mm)	F2 (mm)	H (mm)	H1 (mm)	L1 (mm)	L2 (mm)
169PLMBJ-4M-M5	4	M5X0.8	10	8	14.50	6.50	6.00	18.50
169PLMBJ-4M-2G	4	G1/8	17	14	23.00	9.50	10.00	20.50
169PLMBJ-6M-M5	6	M5X0.8	10	8	15.00	7.00	6.00	22.50
169PLMBJ-6M-2G	6	G1/8	17	14	23.00	9.50	10.00	23.50
169PLMBJ-6M-4G	6	G1/4	22	17	22.00	9.00	13.00	25.50
169PLMBJ-8M-2G	8	G1/8	17	14	23.00	9.50	10.00	26.00
169PLMBJ-8M-4G	8	G1/4	22	17	22.00	9.00	13.00	27.50
169PLMBJ-10M-6G	10	G3/8	22	22	33.00	14.00	13.00	32.00

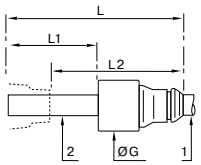


67PLM Plug-In Reducer Metric

Part No.	Tube 1 Size (mm)	Tube 2 Size (mm)	L (mm)	L1 (mm)	L2 (mm)
67PLM-4M-6M	4	6	34.50	19.00	17.50
67PLM-4M-8M	4	8	35.50	20.00	18.00
67PLM-6M-8M	6	8	37.00	20.00	19.50
67PLM-6M-10M	6	10	43.50	25.00	21.00
67PLM-8M-10M	8	10	44.00	25.00	21.50
67PLM-8M-12M	8	12	45.00	26.00	21.50
67PLM-10M-12M	10	12	50.00	26.00	26.50
67PLM-12M-14M	12	14	53.00	28.00	28.50

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

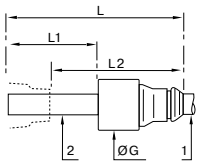




62PLMSP Plug-In Expander Metric

Part No.	Tube 1 Size (mm)	Tube 2 Size (mm)	G (mm)	L (mm)	L1 (mm)	L2 (mm)
62PLMSP-6M-4M	6	4	17	42	22	28

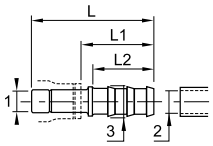




62PLMSP Plug-In Metric/Inch Adapter

Part No.	Tube 1 Size (mm)	Tube 2 Size (in)	G (mm)	L (mm)	L1 (mm)	L2 (mm)
62PLMSP-6M-4	6	1/4	12.50	38.00	19.00	20.50
62PLPSP-10M-6	10	3/8	17.00	49.50	25.00	27.00
62PLPSP-12M-8	12	1/2	20.00	51.00	26.00	27.50





122PLMSP Plug-In Barbed Connector Metric

Part No.	Tube 1 Size (mm)	Tube 2 Size (mm)	Tube 3 Size (mm)	L (mm)	L1 (mm)	L2 (mm)
122PLMSP-4M-3M	4	3.20	5.00	40.50	27.00	22.50
122PLMSP-4M-5M	4	5.00	7.00	40.50	27.00	22.50
122PLMSP-6M-5M	6	5.00	7.00	43.00	27.00	22.50
122PLMSP-8M-6M	8	6.30	8.30	42.00	25.00	22.50
122PLMSP-8M-8M	8	8.00	10.00	44.00	27.00	22.50
122PLMSP-10M-6M	10	6.30	8.30	47.50	25.50	22.50
122PLMSP-10M-8M	10	8.00	10.00	47.50	25.50	22.50
122PLMSP-12M-8M	12	8.00	10.00	48.50	25.50	22.50
122PLMSP-12M10M	12	10.00	12.00	48.50	25.50	22.50
122PLMSP-12M12M	12	12.50	14.50	57.00	34.00	29.50
122PLMSP-14M12M	14	12.50	14.50	57.50	33.00	29.50
122PLMSP-14M14M	14	14.00	16.00	59.50	35.00	29.50

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

PRESTOLOK PLS
Stainless Steel Push-to-Connect Fittings

Parker's Prestolok PLS fittings are ideal for conveying corrosive fluids in aggressive environments. Prestolok PLS fittings provide corrosion resistance and a hygienic external design.

Product Features:

- Stainless steel 316L collet
- Stainless steel 316L body
- FKM seal
- Stainless steel 316L backup washer
- Chemical, corrosion, and abrasion resistance
- Hygienic design reduces retention zones for
- Easy cleaning
- NPT, BSPT, BSPP, and metric threads
- Silicone Free

Markets:

- Petrochemical
- Life Science
- Pulp and Paper
- Food Processing
- Wash Down

Compatible Media:

- Food Fluids
- Chemicals
- Cleaning Agents
- Compressed Air
- Inert Gases

Specifications:

Pressure Range	Up to 435 psi (30 bar) 290 psi (19.9 bar) for 169PLS
Temperature Range	-13° to +302° F (-25° to +150° C)
Vacuum Rating	28" Hg

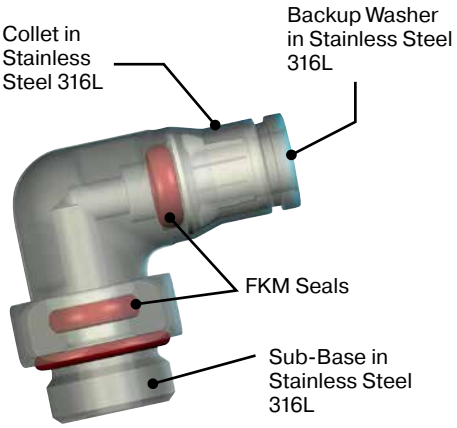
Note: Maximum pressure and temperature range depend on the type of tubing used.

Compatible Tubing:

- Semi-rigid nylon
- Polyethylene
- Polyurethane 95 Durometer Shore A
- Stainless Steel (grooved)
- Copper (grooved)
- FEP

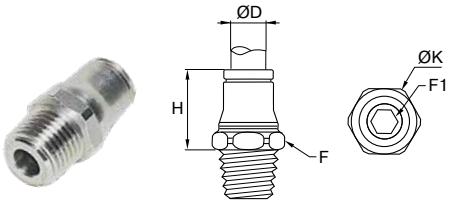
Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.



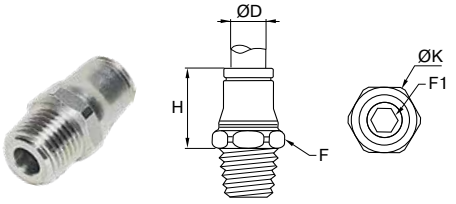
FDA

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



68PLS Male Connector - Inch Tube to NPT,UNF

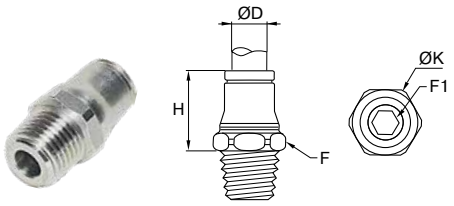
Part No.	Tube Size (in)	NPT / UNF	F (mm)	F1 (mm)	H (in)	K (in)
68PLS-4M-0	5/32(4mm)	10-32	10	2.5	.59	.43
68PLS-4-2	1/4	1/8	13	4	.75	.55
68PLS-4-4	1/4	1/4	14	4	.69	.59
68PLS-6-4	3/8	1/4	19	6	.98	.83
68PLS-6-6	3/8	3/8	19	7	.94	.83
68PLS-8-4	1/2	1/4	22	7	1.02	.94
68PLS-8-6	1/2	3/8	22	8	.98	.94
68PLS-8-8	1/2	1/2	22	10	.98	.94



68PLS Male Connector - Metric Tube to NPT

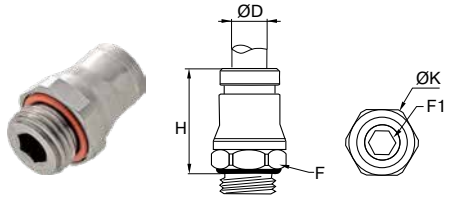
Part No.	Tube Size (mm)	NPT	F (mm)	F1 (mm)	H (mm)	K (mm)
68PLS-4M-2	4mm (5/32)	1/8	11	3	14.50	12.00
68PLS-6M-2	6	1/8	13	4	18.00	14.00
68PLS-6M-4	6	1/4	14	4	16.50	15.00
68PLS-8M-2	8mm (5/16)	1/8	15	5	19.00	16.50
68PLS-8M-4	8mm (5/16)	1/4	15	6	18.00	16.50
68PLS-10M-4	10	1/4	19	6	24.00	21.00
68PLS-10M-6	10	3/8	19	7	22.50	21.00
68PLS-12M-4	12	1/4	22	7	25.00	24.00
68PLS-12M-6	12	3/8	22	8	24.00	24.00
68PLS-12M-8	12	1/2	22	10	23.00	24.00

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



68PLS Male Connector - Metric Tube to BSPT

Part No.	Tube Size (mm)	BSPT	F (mm)	F1 (mm)	H (mm)	K (mm)
68PLS-4M-2R	4	1/8	10	3	14.50	11.00
68PLS-4M-4R	4	1/4	14	3	14.50	15.00
68PLS-6M-2R	6	1/8	13	4	18.00	14.00
68PLS-6M-4R	6	1/4	14	4	16.50	15.00
68PLS-8M-2R	8	1/8	15	5	20.50	16.50
68PLS-8M-4R	8	1/4	15	5	19.00	16.50
68PLS-8M-6R	8	3/8	17	6	19.00	18.50
68PLS-10M-4R	10	1/4	19	6	24.00	21.00
68PLS-10M-6R	10	3/8	19	7	22.50	21.00
68PLS-12M-4R	12	1/4	22	7	25.00	24.00
68PLS-12M-6R	12	3/8	22	8	24.00	24.00
68PLS-12M-8R	12	1/2	22	10	23.00	24.00

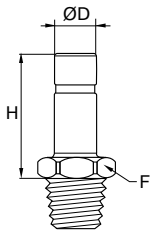


68PLS Male Connector - Metric Tube to BSPP, M5

Part No.	Tube Size (mm)	BSPP / M5	F (mm)	F1 (mm)	H (mm)	K (mm)
68PLS-4M-M5	4	M5X0.8	10	2.5	16.00	11.00
68PLS-4M-2G	4	1/8	13	3	15.00	14.00
68PLS-6M-M5	6	M5X0.8	13	2.5	20.50	14.00
68PLS-6M-2G	6	1/8	13	4	18.00	14.00
68PLS-6M-4G	6	1/4	17	4	18.00	18.50
68PLS-8M-2G	8	1/8	15	5	19.00	16.50
68PLS-8M-4G	8	1/4	17	5	20.50	18.50
68PLS-8M-6G	8	3/8	21	6	20.00	23.00
68PLS-10M-4G	10	1/4	18	7	25.00	19.50
68PLS-10M-6G	10	3/8	21	7	25.00	23.00
68PLS-12M-4G	12	1/4	21	7	27.00	23.00
68PLS-12M-6G	12	3/8	21	9	26.50	23.00

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

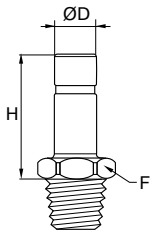




68PLSSP Male Standpipe - Inch Tube to NPT

Part No.	Tube Size (in)	NPT	F (in)	H (in)
68PLSSP-4-2	1/4	1/8	0.39	1.02
68PLSSP-4-4	1/4	1/4	0.55	1.06
68PLSSP-6-6	3/8	3/8	0.75	1.26
68PLSSP-8-6	1/2	3/8	0.75	1.46



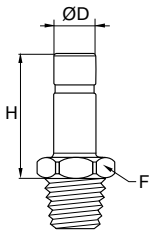


68PLSSP Male Standpipe - Metric Tube to NPT

Part No.	Tube Size (mm)	NPT	F (mm)	H (mm)
68PLSSP-4M-2	4mm (5/32)	1/8	11	21
68PLSSP-6M-2	6	1/8	11	23
68PLSSP-6M-4	6	1/4	14	24
68PLSSP-8M-4	8mm (5/16)	1/4	14	25
68PLSSP-10M-6	10	3/8	17	30

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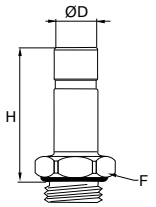




68PLSSP Male Standpipe - Metric Tube to BSPT

Part No.	Tube Size (mm)	BSPT	F (mm)	H (mm)
68PLSSP-4M-2R	4	1/8	10	21
68PLSSP-6M-2R	6	1/8	10	23
68PLSSP-6M-4R	6	1/4	14	24
68PLSSP-8M-2R	8	1/8	10	24
68PLSSP-8M-4R	8	1/4	14	25
68PLSSP-10M-4R	10	1/4	14	30
68PLSSP-10M-6R	10	3/8	17	30
68PLSSP-12M-4R	12	1/4	14	31
68PLSSP-12M-6R	12	3/8	17	31
68PLSSP-12M-8R	12	1/2	22	32



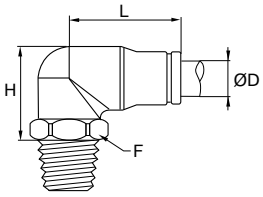


68PLSSP Male Standpipe - Metric Tube to BSPP, M5

Part No.	Tube Size (mm)	BSPP / M5	F (mm)	H (mm)
68PLSSP-4M-M5	4	M5X0.8	7	23.50
68PLSSP-4M-2G	4	1/8	13	22.00
68PLSSP-6M-2G	6	1/8	13	24.00
68PLSSP-6M-4G	6	1/4	17	24.00
68PLSSP-8M-2G	8	1/8	13	25.00
68PLSSP-8M-4G	8	1/4	17	27.00
68PLSSP-10M-4G	10	1/4	17	32.00
68PLSSP-10M-6G	10	3/8	21	27.00
68PLSSP-12M-4G	12	1/4	17	33.00

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



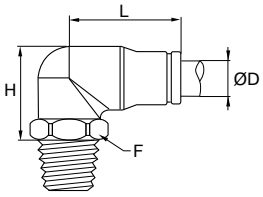


169PLS Male Elbow - Inch Tube to NPT, UNF

Part No.	Tube Size (in)	NPT / UNF	F (mm)	H (in)	L (in)
169PLS-4M-0	5/32(4MM)	10-32	10	.98	.77
169PLS-4-2	1/4	1/8	13	.85	.91
169PLS-4-4	1/4	1/4	14	.85	.91
169PLS-6-4	3/8	1/4	17	1.12	1.20
169PLS-6-6	3/8	3/8	19	1.12	1.20
169PLS-8-6	1/2	3/8	22	1.34	1.30
169PLS-8-8	1/2	1/2	22	1.34	1.30

Body swivels for positioning purposes





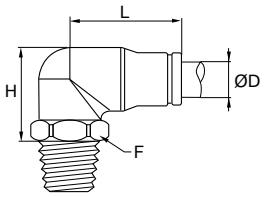
169PLS Male Elbow - Metric Tube to NPT

Part No.	Tube Size (mm)	NPT	F (mm)	H (mm)	L (mm)
169PLS-6M-2	6	1/8	13	20.00	22.50
169PLS-6M-4	6	1/4	14	20.00	22.50
169PLS-8M-2	8MM(5/16)	1/8	13	25.00	24.00
169PLS-8M-4	8MM(5/16)	1/4	14	24.00	24.00
169PLS-10M-4	10	1/4	17	27.50	27.50
169PLS-10M-6	10	3/8	19	28.50	26.50
169PLS-12M-4	12	1/4	22	31.50	32.50
169PLS-12M-6	12	3/8	22	32.50	32.50
169PLS-12M-8	12	1/2	22	27.50	32.50

Body swivels for positioning purposes

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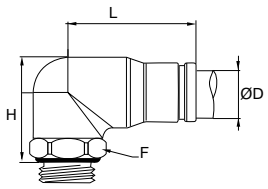


169PLS Male Elbow - Metric Tube to BSPT

Part No.	Tube Size (mm)	BSPT	F (mm)	H (mm)	L (mm)
169PLS-4M-2R	4	1/8	13	18.00	19.00
169PLS-4M-4R	4	1/4	14	18.00	19.00
169PLS-6M-2R	6	1/8	13	20.00	24.00
169PLS-6M-4R	6	1/4	14	20.00	23.00
169PLS-8M-2R	8	1/8	13	24.50	32.00
169PLS-8M-4R	8	1/4	14	23.50	24.00
169PLS-8M-6R	8	3/8	19	23.00	25.00
169PLS-10M-4R	10	1/4	17	27.00	31.00
169PLS-10M-6R	10	3/8	19	26.00	31.00
169PLS-12M-4R	12	1/4	22	31.50	33.00
169PLS-12M-6R	12	3/8	22	32.50	33.00
169PLS-12M-8R	12	1/2	22	27.50	33.00

Body swivels for positioning purposes





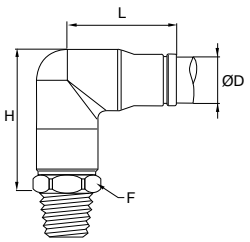
169PLS Male Elbow - Metric Tube to BSPP

Part No.	Tube Size (mm)	BSPP	F (mm)	H (mm)	L (mm)
169PLS-4M-2G	4	1/8	10	22	19
169PLS-4M-4G	4	1/4	17	20	19
169PLS-6M-2G	6	1/8	13	24	24
169PLS-6M-4G	6	1/4	17	22	24
169PLS-8M-2G	8	1/8	13	25	25
169PLS-8M-4G	8	1/4	17	25	25
169PLS-8M-6G	8	3/8	21	23	25
169PLS-10M-4G	10	1/4	18	29	31
169PLS-10M-6G	10	3/8	21	27	31
169PLS-12M-4G	12	1/4	17	33	33
169PLS-12M-6G	12	3/8	21	33	33
169PLS-12M-8G	12	1/2	24	30	33

Body swivels for positioning purposes

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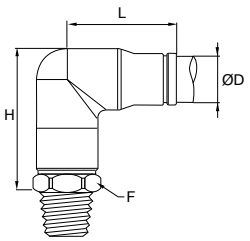


169PLSX Extended Male Elbow - Metric Tube to NPT

Part No.	Tube Size (mm)	NPT	F (mm)	H (mm)	L (mm)
169PLSX-6M-2	6	1/8	13	29	22.5
169PLSX-6M-4	6	1/4	14	29	22.5
169PLSX-8M-2	8	1/8	14	34	24
169PLSX-8M-4	8	1/4	14	34	24
169PLSX-10M-4	10	1/4	19	39.5	30
169PLSX-10M-6	10	3/8	19	39.5	30

Body swivels for positioning purposes





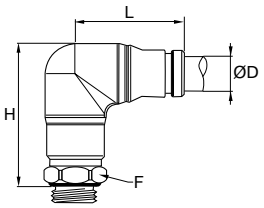
169PLSX Extended Male Elbow - Metric Tube to BSPT

Part No.	Tube Size (mm)	BSPT	F (mm)	H (mm)	L (mm)
169PLSX-4M-2R	4	1/8	10	25	19.00
169PLSX-6M-2R	6	1/8	13	30	24.00
169PLSX-6M-4R	6	1/4	14	30	24.00
169PLSX-8M-2R	8	1/8	14	34	24.90
169PLSX-8M-4R	8	1/4	14	34	24.90
169PLSX-10M-4R	10	1/4	19	39	31.00
169PLSX-10M-6R	10	3/8	19	39	31.00

Body swivels for positioning purposes

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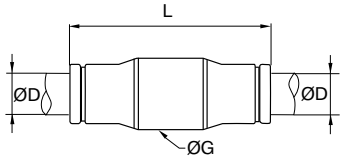


169PLSX Extended Male Elbow - Metric Tube to BSPP, M5

Part No.	Tube Size (mm)	BSPP / M5	F (mm)	H (mm)	L (mm)
169PLSX-4M-M5	4	M5X0.8	10	27.00	19
169PLSX-4M-2G	4	1/8	13	27.00	19
169PLSX-4M-4G	4	1/4	17	27.00	19
169PLSX-6M-M5	6	M5X0.8	13	33.00	24
169PLSX-6M-2G	6	1/8	13	33.00	24
169PLSX-6M-4G	6	1/4	17	32.00	24
169PLSX-8M-2G	8	1/8	14	35.00	25
169PLSX-8M-4G	8	1/4	17	35.00	25
169PLSX-8M-6G	8	3/8	21	34.50	25
169PLSX-10M-4G	10	1/4	18	43.00	31
169PLSX-10M-6G	10	3/8	21	42.00	31

Body swivels for positioning purposes

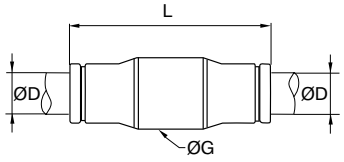




62PLS Union - Inch Tube

Part No.	Tube Size (in)	G (in)	H (in)
62PLS-4	1/4	.47	1.38
62PLS-6	3/8	.69	1.81
62PLS-8	1/2	.79	1.89



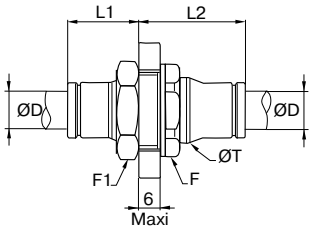


62PLS Union - Metric Tube

Part No.	Tube Size (mm)	G (mm)	H (mm)
62PLS-4M	4MM(5/32)	10.00	30.00
62PLS-6M	6	12.00	37.00
62PLS-8M	8MM(5/16)	15.00	38.00
62PLS-10M	10	17.00	49.00
62PLS-12M	12	19.50	49.50

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

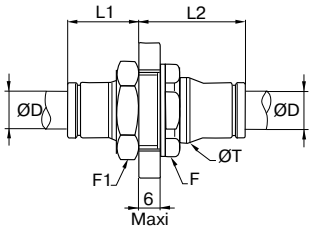




62PLSBH Bulkhead Union - Inch Tube

Part No.	Tube Size (in)	F (mm)	F1 (mm)	L1 (mm)	L2 (mm)	T (in)
62PLSBH-3	3/16	17	13	.59	.83	.49
62PLSBH-4	1/4	19	17	.67	.89	.59
62PLSBH-6	3/8	27	22	.87	1.08	.82

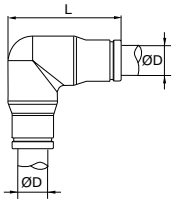




62PLSBH Bulkhead Union - Metric Tube

Part No.	Tube Size (mm)	F (mm)	F1 (mm)	L1 (mm)	L2 (mm)	T (mm)
62PLSBH-4M	4mm (5/32)	14	13	15	18	13
62PLSBH-6M	6	17	17	19	21	15
62PLSBH-8M	8mm (5/16)	19	19	20	22	17
62PLSBH-10M	10	22	22	24	26	21
62PLSBH-12M	12	24	24	25	26	23



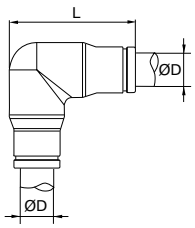


165PLS Union Elbow - Inch Tube

Part No.	Tube Size (in)	L (in)
165PLS-4	1/4	1.14
165PLS-6	3/8	1.56
165PLS-8	1/2	1.61

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

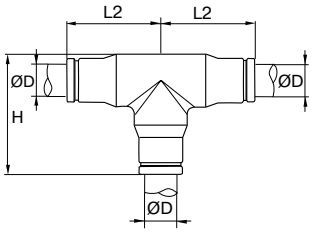




165PLS Union Elbow - Metric Tube

Part No.	Tube Size (mm)	L (mm)
165PLS-4M	4mm (5/32)	24.00
165PLS-6M	6	30.00
165PLS-8M	8mm (5/16)	32.20
165PLS-10M	10	39.00
165PLS-12M	12	43.00

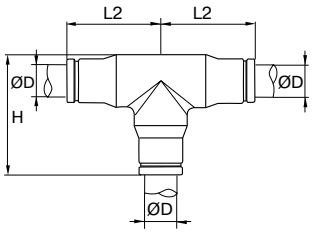




164PLS Union Tee - Inch Tube

Part No.	Tube Size (in)	H (in)	L2 (in)
164PLS-4	1/4	1.06	.83
164PLS-6	3/8	1.48	1.12
164PLS-8	1/2	1.61	1.22



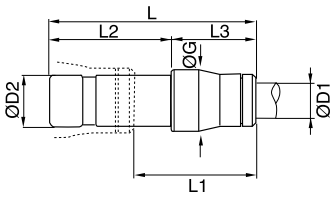


164PLS Union Tee - Metric Tube

Part No.	Tube Size (mm)	H (mm)	L2 (mm)
164PLS-4M	4MM(5/32)	24	19
164PLS-6M	6	30	24
164PLS-8M	8MM(5/16)	32	25
164PLS-10M	10	39	31
164PLS-12M	12	43	33

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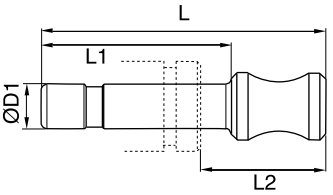




67PLS Tube Reducer - Metric

Part No.	Tube 1 Size (mm)	Tube 2 Size (mm)	G (mm)	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)
67PLS-4M-6M	4	6	10	35	19.0	19	16
67PLS-4M-8M	4	8	10	34	17.0	20	14
67PLS-6M-8M	6	8	12	42	24.0	23	19
67PLS-6M-10M	6	10	12	42	19.0	25	17
67PLS-8M-10M	8	10	15	45	22.5	25	19
67PLS-8M-12M	8	12	15	43	20.0	26	17
67PLS-10M-12M	10	12	17	51	23.0	26	25

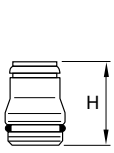


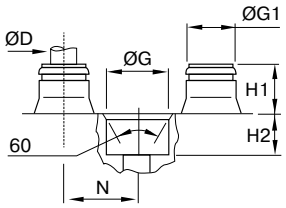


639PLS Plug - Metric

Part No.	Tube 1 Size (mm)	L (mm)	L1 (mm)	L2 (mm)
639PLS-4M	4	25.40	17.00	11.10
639PLS-6M	6	30.40	19.50	13.50
639PLS-8M	8	33.00	20.00	14.40
639PLS-10M	10	40.00	25.00	17.00
639PLS-12M	12	43.00	26.00	18.70







PLSC Cartridge - Metric

Part No.	Tube Size (mm)	G + .1 - 0 (mm)	G1 (mm)	H (mm)	H1 (mm)	H2 (mm)	N (mm)
PLSC-4M	4	9.80	8	18.00	9.50	8.50	11.00
PLSC-6M	6	12.10	10	20.00	11.50	8.50	13.50
PLSC-8M	8	14.80	13	22.00	13.50	8.50	16.00
PLSC-10M	10	17.50	15	25.50	15.00	10.50	20.00

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Notes



PNEUMATIC: INTEGRATED FITTINGS

Flow Controls, Check Valves, Slide Valves, Quick Exhaust Valve, Blocking Valves, Manually Operated Valves, Threshold Sensor Fittings, Mini Ball Valves

Parker



COMPACT FLOW CONTROL VALVES

Parker's compact flow controls ensure excellent performance of flow and are perfectly suited for reduced spaces due to their small size.

Product Features:

- Glass reinforced nylon 6.6 body
- Stainless steel gripping ring
- Nickel-plated brass adjustment screw
- Nickel-plated brass locking nut
- Nickel-plated brass threads
- Nitrile D seal
- NPT
- BSPT
- BSPP
- Metric threads

Markets:

- Factory/Process Automation
- Life Science
- Food Processing
- Water And Beverage
- Petrochemical

Applications:

- Packaging
- Filling
- Dispensing
- Bottling
- Pneumatic Circuits

Specifications:

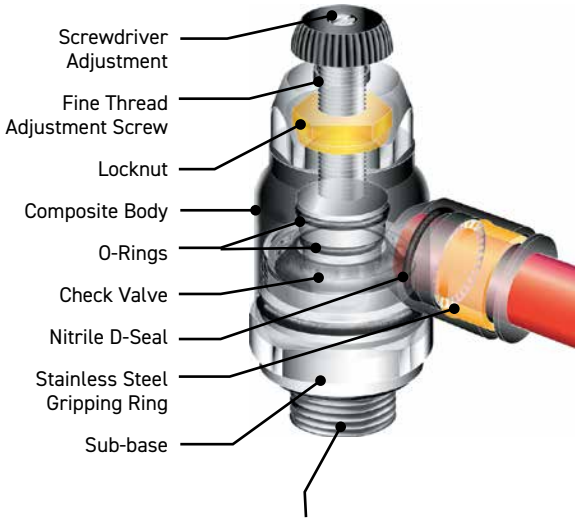
Pressure Range	15 to 145 psi (1.0 to 9.9 bar)
Temperature Range	+32° to +158° F (0 to +70° C)

Compatible Tubing:

- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer

Assembly Instructions

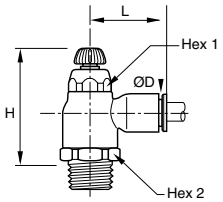
1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.



Sealing O-Ring on BSPP and pre-applied white Thread Sealant on NPT & BSPT

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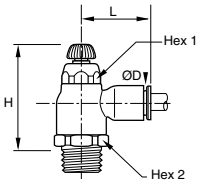




FCC731 Compact Meter Out

Part No.	Tube Size (in)	NPT	Hex 1	Hex 2	H Open	H Closed	L
FCC731-4M-2	5/32 (4mm)	1/8	.63	.39	1.67	1.44	.85
FCC731-4M-4	5/32 (4mm)	1/4	.63	.39	1.67	1.44	.85
FCC731-4-2	1/4	1/8	.63	.39	1.67	1.44	.85
FCC731-4-4	1/4	1/4	.63	.39	1.67	1.44	.85
FCC731-6-4	3/8	1/4	.91	.67	2.03	1.71	1.22
FCC731-6-6	3/8	3/8	.91	.67	2.03	1.71	1.22
FCC731-6-8	3/8	1/2	.67	.91	2.03	1.71	1.22
FCC731-8-8	1/2	1/2	.67	.91	2.03	1.71	1.22



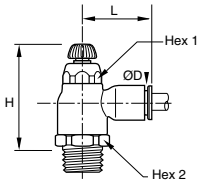


FCC731 Compact Meter Out - BSPT

Part No.	Tube Size (mm)	BSPT	Hex 1	Hex 2	H Closed	H Open	L
FCC731-6M-2R	6	1/8	16	10	36.5	42.5	22.0
FCC731-8M-2R	8	1/8	19	14	40.0	45.0	27.0
FCC731-8M-4R	8	1/4	19	14	40.0	45.0	27.0
FCC731-10M-4R	10	1/4	23	17	43.5	51.5	31.5
FCC731-10M-6R	10	3/8	23	17	43.5	51.5	31.5
FCC731-10M-8R	10	1/2	23	17	43.5	51.5	31.5
FCC731-12M-4R	12	1/4	23	17	43.5	51.5	35.0
FCC731-12M-6R	12	3/8	23	17	43.5	51.5	35.0
FCC731-12M-8R	12	1/2	23	17	43.5	51.5	35.0

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

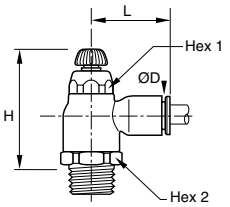




FCC731 Compact Meter Out - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	Hex 2	H Closed	H Open	L
FCC731-4M-2G	4	1/8	10	16	38.0	44.0	22.0
FCC731-6M-2G	6	1/8	10	16	38.0	44.0	22.0
FCC731-6M-4G	6	1/4	10	16	36.5	42.5	22.0
FCC731-8M-2G	8	1/8	14	19	41.5	48.0	28.0
FCC731-8M-4G	8	1/4	14	19	41.5	48.0	28.0
FCC731-8M-6G	8	3/8	14	19	41.5	48.0	28.0
FCC731-10M-4G	10	1/4	17	23	45.5	53.5	31.5
FCC731-10M-6G	10	3/8	17	23	45.5	54.0	31.5
FCC731-12M-6G	12	3/8	17	23	45.5	54.0	35.0
FCC731-12M-8G	12	1/2	17	24	45.5	54.0	35.0

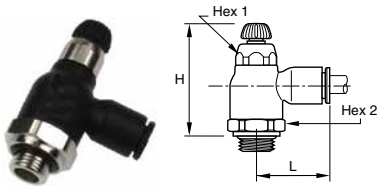




FCCI731 Compact Meter In Flow Control

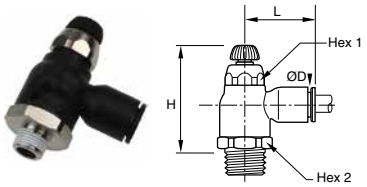
Part No.	Tube Size (in)	NPT	Hex 1	Hex 2	H Open	H Closed	L
FCCI731-4M-2	5/32 (4mm)	1/8	.63	.39	1.67	1.44	.85
FCCI731-4M-4	5/32 (4mm)	1/4	.63	.39	1.67	1.44	.85
FCCI731-4-2	1/4	1/8	.63	.39	1.67	1.44	.85
FCCI731-4-4	1/4	1/4	.63	.39	1.67	1.44	.85

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



FCCI731 Compact Meter In Flow Control - BSPP

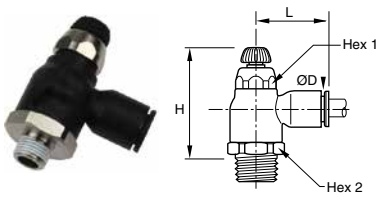
Part No.	Tube Size (mm)	BSPP	Hex 1	Hex 2	H Closed	H Open	L
FCCI731-4M-2G	4	1/8	10	16	38.0	44.0	22.0
FCCI731-6M-2G	6	1/8	10	16	38.0	44.0	22.0
FCCI731-6M-4G	6	1/4	10	16	36.5	42.5	22.0
FCCI731-8M-2G	8	1/8	14	19	41.5	48.0	28.0
FCCI731-8M-4G	8	1/4	14	19	41.5	48.0	28.0
FCCI731-8M-6G	8	3/8	14	19	41.5	48.0	28.0
FCCI731-10M-4G	10	1/4	17	23	45.5	53.5	31.5
FCCI731-10M-6G	10	3/8	17	23	45.5	54.0	31.5
FCCI731-12M-8G	12	1/2	17	24	45.5	54.0	35.0



FCCB731 Compact Bi-Directional Flow Control

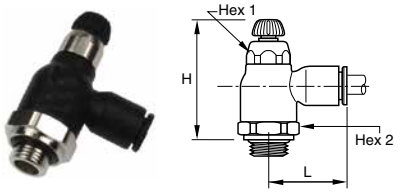
Part No.	Tube Size (in)	NPT	Hex 1	Hex 2	H Open	H Closed	L
FCCB731-4M-2	5/32 (4mm)	1/8	.63	.39	1.67	1.44	.85
FCCB731-4-2	1/4	1/8	.63	.39	1.67	1.44	.85
FCCB731-4-4	1/4	1/4	.63	.39	1.67	1.44	.85

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



FCCB731 Compact Bi-Directional Flow Control - BSPT

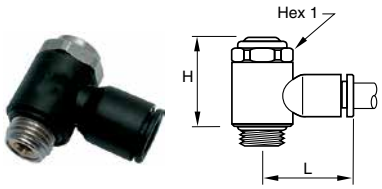
Part No.	Tube Size (mm)	BSPT	Hex 1	Hex 2	H Closed	H Open	L
FCCB731-4M-2R	4	1/8	16	10	36.5	42.5	22.0
FCCB731-6M-2R	6	1/8	16	10	36.5	42.5	22.0
FCCB731-6M-4R	6	1/4	16	10	36.5	42.5	22.0
FCCB731-8M-2R	8	1/8	19	14	40.0	45.0	27.0
FCCB731-8M-4R	8	1/4	19	14	40.0	45.0	27.0
FCCB731-8M-6R	8	3/8	19	14	40.0	45.0	27.0



FCCB731 Compact Bi-Directional Flow Control - BSPP

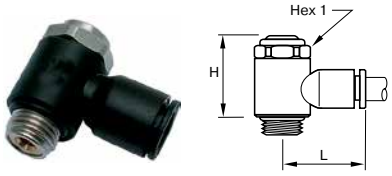
Part No.	Tube Size (mm)	BSPP	Hex 1	Hex 2	H Closed	H Open	L
FCCB731-4M-2G	4	1/8	10	16	38.0	44.0	22.0
FCCB731-6M-2G	6	1/8	10	16	38.0	44.0	22.0
FCCB731-6M-4G	6	1/4	10	16	36.5	42.5	22.0
FCCB731-8M-2G	8	1/8	14	19	41.5	48.0	28.0
FCCB731-8M-4G	8	1/4	14	19	41.5	48.0	28.0
FCCB731-8M-6G	8	3/8	14	19	41.5	48.0	28.0

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



FCKC731 Knobless Compact Flow Control - BSPP

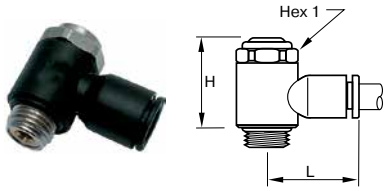
Part No.	Tube Size (mm)	BSPP / M5	Hex 1	H	L
FCKC731-4M-M5	4	M5X0.8	8.0	17.5	17.0
FCKC731-4M-2G	4	1/8	13.0	25.0	19.0
FCKC731-6M-M5	6	M5X0.8	8.0	17.5	19.0
FCKC731-6M-2G	6	1/8	13.0	25.0	21.0
FCKC731-6M-4G	6	1/4	17.0	26.5	22.0
FCKC731-8M-2G	8	1/8	13.0	25.0	26.0
FCKC731-8M-4G	8	1/4	17.0	26.5	27.0
FCKC731-8M-6G	8	3/8	20.0	37.5	29.0
FCKC731-10M-4G	10	1/4	17.0	26.5	29.0
FCKC731-10M-6G	10	3/8	20.0	37.5	31.0
FCKC731-10M-8G	10	1/2	23.0	43.0	37.0
FCKC731-12M-6G	12	3/8	20.0	37.5	6.8
FCKC731-12M-8G	12	1/2	23.0	43.0	37.0



FCKCI731 Knobless Compact Meter In Flow Control-BSPP

Part No.	Tube Size (mm)	BSPP / M5	Hex 1	H	L
FCKCI731-4M-M5	4	M5X0.8	8.0	17.5	17.0
FCKCI731-4M-2G	4	1/8	13.0	25.0	19.0
FCKCI731-6M-M5	6	M5X0.8	8.0	17.5	19.0
FCKCI731-6M-2G	6	1/8	13.0	25.0	21.0
FCKCI731-6M-4G	6	1/4	17.0	26.5	22.0
FCKCI731-8M-2G	8	1/8	13.0	25.0	26.0
FCKCI731-8M-4G	8	1/4	17.0	26.5	27.0
FCKCI731-8M-6G	8	3/8	20.0	37.5	29.0
FCKCI731-10M-4G	10	1/4	17.0	26.5	29.0
FCKCI731-10M-6G	10	3/8	20.0	37.5	31.0

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



FCKCB731 Knobless Bi-directional Flow Control - BSPP

Part No.	Tube Size (mm)	BSPP / M5	Hex 1	H	L
FCKCB731-4M-M5	4	M5X0.8	8	17.5	17.0
FCKCB731-4M-2G	4	1/8	13	25.0	19.0
FCKCB731-6M-M5	6	M5X0.8	8	17.5	19.0
FCKCB731-6M-2G	6	1/8	13	25.0	21.0
FCKCB731-6M-4G	6	1/4	17	26.5	22.0
FCKCB731-8M-2G	8	1/8	13	25.0	26.0
FCKCB731-8M-4G	8	1/4	17	26.5	27.0
FCKCB731-8M-6G	8	3/8	20	37.5	29.0

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



MINIATURE FLOW CONTROLS

Parker's miniature flow controls ensure excellent performance of flow and are perfectly suited for reduced spaces due to their small size.

Product Features:

- Glass reinforced nylon 6.6 body
- Stainless steel gripping ring
- Nickel-plated brass adjustment screw
- Nickel-plated brass locking nut
- Nickel-plated brass threads
- Nitrile D seal
- NPT, BSPT, BSPP, Metric threads

Markets:

- Factory/Process Automation
- Life Science
- Food Processing
- Water And Beverage
- Petrochemical

Applications:

- Packaging
- Filling
- Dispensing
- Bottling
- Pneumatic Circuits

Specifications:

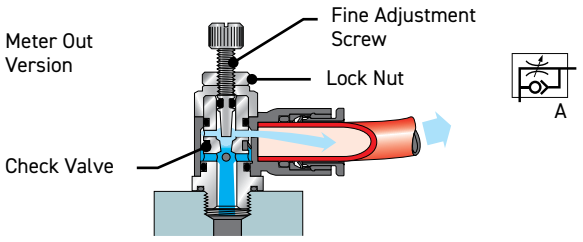
Pressure Range	15 to 145 psi (1.0 to 9.9 bar)
Temperature Range	+32° to +158° F (0 to +70° C)

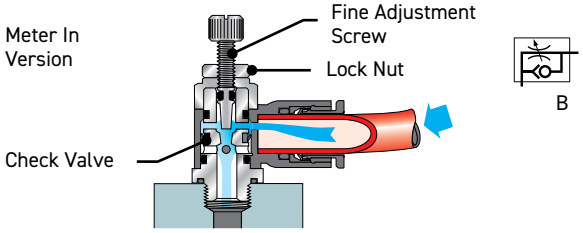
Compatible Tubing:

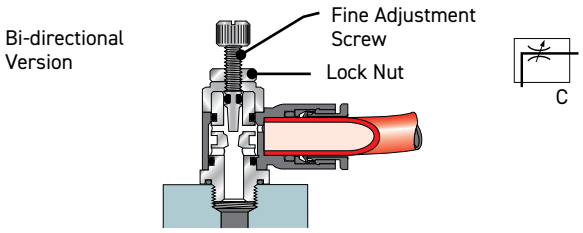
- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer

Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

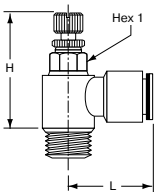






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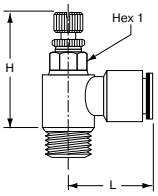




FCM731 Miniature Meter Out Flow Control – NPT /UNF

Part No.	Tube Size (in)	Thd NPT / UNF	Hex 1 (mm)	H Open	H Closed	L
FCM731-2-0	1/8	10-32	6	1.14	.91	.67
FCM731-2-2	1/8	1/8	7	1.41	1.26	.69
FCM731-4M-0	5/32	10-32	6	1.02	.93	.67
FCM731-4M-2	5/32	1/8	7	1.16	1.06	.71
FCM731-4-0	1/4	10-32	6	1.02	.93	.73
FCM731-4-2	1/4	1/8	7	1.16	1.06	.75
FCM731-4-4	1/4	1/4	8	1.28	1.18	.77





FCMI731 Miniature Meter In Flow Control – NPT /UNF

Part No.	Tube Size (in)	Thread NPT / UNF	Hex 1 (mm)	H Open	H Closed	L
FCMI731-2-0	1/8	10-32	6	1.14	.91	.67
FCMI731-4M-0	5/32	10-32	6	1.02	.93	.67
FCMI731-4M-2	5/32	1/8	7	1.16	1.06	.71
FCMI731-4-0	1/4	10-32	6	1.02	.93	.73
FCMI731-4-2	1/4	1/8	7	1.16	1.06	.75
FCMI731-4-4	1/4	1/4	8	1.28	1.18	.77

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



FCM731 Miniature Meter Out Flow Control - BSPT

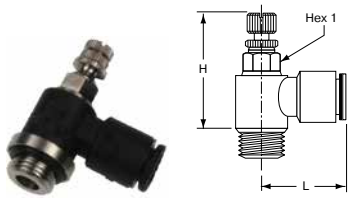
Part No.	Tube Size (mm)	BSPT	Hex 1	H Closed	H Open	L
FCM731-4M-2R	4	1/8	7	25.0	27.5	18.0
FCM731-6M-2R	6	1/8	7	25.0	27.5	18.5
FCM731-6M-4R	6	1/4	8	27.5	30.0	19.0
FCM731-6M-6R	6	3/8	17	31.5	34.0	19.0
FCM731-8M-2R	8	1/8	13	28.5	33.0	26.0
FCM731-8M-4R	8	1/4	16	31.0	35.0	27.5
FCM731-8M-6R	8	3/8	20	36.0	42.0	29.0



FCMI731 Miniature Meter In Flow Control - BSPT

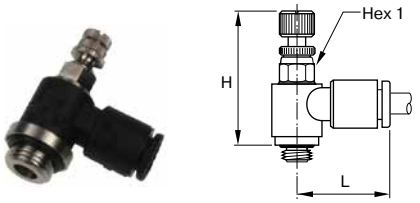
Part No.	Tube Size (mm)	BSPT	Hex 1	H Closed	H Open	L
FCMI731-4M-2R	4	1/8	7	25.0	27.5	18.0
FCMI731-6M-2R	6	1/8	7	25.0	27.5	18.5
FCMI731-6M-4R	6	1/4	8	27.5	30.0	19.0
FCMI731-8M-2R	8	1/8	13	28.5	33.0	26.0
FCMI731-8M-4R	8	1/4	16	31.0	35.0	27.5

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



FCM731 Miniature Meter Out Flow Control - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	H Closed	H Open	L
FCM731-3M-M3	3	M3X0.5	6	23.5	26.0	17.0
FCM731-3M-M5	3	M5X0.8	6	23.5	26.0	17.0
FCM731-4M-M3	4	M3X0.5	6	23.5	26.0	16.5
FCM731-4M-M5	4	M5X0.8	6	23.5	26.0	17.0
FCM731-4M-2G	4	1/8	7	27.0	29.5	18.0
FCM731-6M-M5	6	M5X0.8	6	23.5	26.0	18.0
FCM731-6M-2G	6	1/8	7	27.0	29.5	18.5
FCM731-6M-4G	6	1/4	8	30.0	32.5	19.0
FCM731-8M-2G	8	1/8	13	26.5	31.0	26.0
FCM731-8M-4G	8	1/4	16	29.0	34.0	27.5
FCM731-8M-6G	8	3/8	20	36.0	42.0	29.0

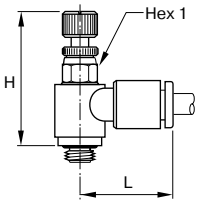


FCMI731 Miniature Meter In Flow Control - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	H Closed	H Open	L
FCMI731-3M-M3	3	M3X0.5	6	23.5	26.0	17.0
FCMI731-3M-M5	3	M5X0.8	6	23.5	26.0	17.0
FCMI731-4M-M5	4	M5X0.8	6	23.5	26.0	17.0
FCMI731-4M-2G	4	1/8	7	27.0	29.5	18.0
FCMI731-6M-M5	6	M5X0.8	6	23.5	26.0	18.0
FCMI731-6M-2G	6	1/8	7	27.0	29.5	18.5
FCMI731-6M-4G	6	1/4	8	30.0	32.5	19.0
FCMI731-8M-2G	8	1/8	13	26.5	31.0	26.0
FCMI731-8M-4G	8	1/4	16	29.0	34.0	27.5
FCMI731-8M-6G	8	3/8	20	36.0	42.0	29.0

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

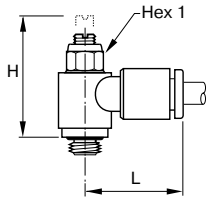




FCMB731 Miniature Bi-directional Flow Control - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	H Closed	H Open	L
FCMB731-4M-M5	4	M5X0.8	6	23.5	26.0	16.5
FCMB731-4M-2G	4	1/8	7	27.0	29.5	17.0
FCMB731-6M-M5	6	M5X0.8	6	23.5	26.0	18.0
FCMB731-6M-2G	6	1/8	7	27.0	29.5	18.0
FCMB731-6M-4G	6	1/4	8	30.0	32.5	18.5





FCMK731 Knobless Mini Meter Out Flow Control

Part No.	Tube Size (in)	NPT	Hex 1 (mm)	H Open	H Closed	L
FCMK731-2-0	1/8	10-32	6	.79	.65	.65
FCMK731-2-2	1/8	1/8	6	.85	.71	.71
FCMK731-4-0	5/32	10-32	6	.79	.65	.65
FCMK731-4-2	5/32	1/8	6	.85	.71	.71
FCMK731-4-0	1/4	10-32	6	.79	.65	.65
FCMK731-4-2	1/4	1/8	6	.85	.71	.73
FCMK731-4-4	1/4	1/4	6	.97	.83	.73

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



SWIVEL OUTLET FLOW CONTROLS

Parker's swivel outlet flow controls are designed to allow a vertical or angled tube exit where access is restricted.

Product Features:

- Glass reinforced nylon 6.6 body
- Stainless steel gripping ring
- Nickel-plated brass adjustment screw
- Nickel-plated brass locking nut
- Nickel-plated brass threads
- Nitrile D seal
- NPT, BSPT, BSPP, Metric threads

Markets:

- Factory/Process Automation
- Life Science
- Food Processing
- Water And Beverage
- Petrochemical

Applications:

- Packaging
- Filling
- Dispensing
- Bottling
- Pneumatic Circuits

Specifications:

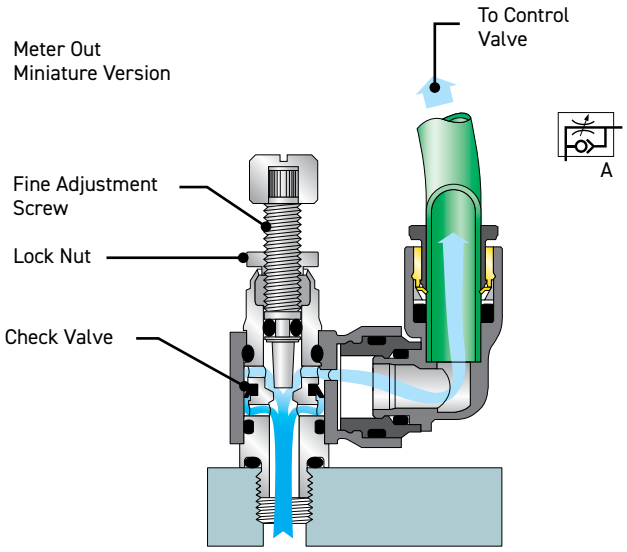
Pressure Range	15 to 145 psi (1.0 to 9.9 bar)
Temperature Range	+32° to +158° F (0 to +70° C)

Compatible Tubing:

- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer

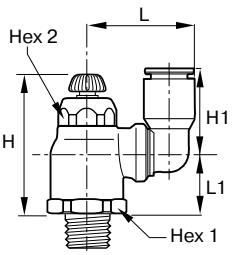
Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.



WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

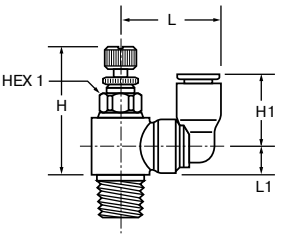




FCCS731 Compact Swivel Outlet Meter Out Flow Control

Part No.	Tube Size (in)	NPT	Hex 1 (mm)	Hex 2 (mm)	H Closed	H Open	H1	L	L1
FCCS731-4-2	1/4	1/8	19	10	1.87	2.09	.63	.93	.65
FCCS731-4-4	1/4	1/4	19	14	1.79	1.99	.73	1.00	.89
FCCS731-6-4	3/8	1/4	23	17	1.93	2.20	1.04	1.34	.97
FCCS731-6-6	3/8	3/8	23	17	1.93	2.20	1.04	1.34	.97

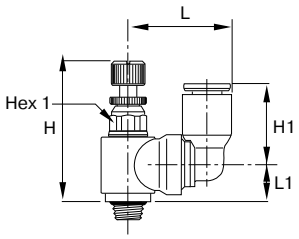




FCMS731 Mini Swivel Outlet Meter Out Flow Control

Part No.	Tube Size (in)	NPT	Hex 1 (mm)	H Closed	H Open	H1	L	L1
FCMS731-4M-0	5/32 (4MM)	10-32	6	.96	1.08	.55	0.73	0.26
FCMS731-4M-2	5/32 (4MM)	1/8	8	1.08	1.20	.55	0.73	0.33



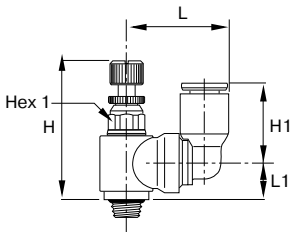


FCMS731 Miniature Swivel Outlet Meter Out - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	H Closed	H Open	H1	L	L1
FCMS731-4M-M5	4	M5X0.8	6	24.5	27.5	14.5	19.5	6.5
FCMS731-4M-2G	4	1/8	7	27.5	31.0	14.5	20.0	8.5
FCMS731-6M-M5	6	M5X0.8	6	24.5	27.5	16.0	21.5	6.5
FCMS731-6M-2G	6	1/8	7	27.5	31.0	16.0	22.0	8.5

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

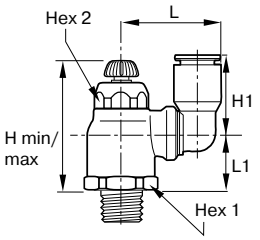




FCMSI731 Miniature Swivel Outlet Meter In - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	H Closed	H Open	H1	L	L1
FCMSI731-4M-M5	4	M5X0.8	6	24.5	27.5	14.5	19.5	6.5
FCMSI731-6M-M5	6	M5X0.8	6	24.5	27.5	16.0	21.5	6.5
FCMSI731-6M-2G	6	1/8	7	27.5	31.0	16.0	22.0	8.5





FCCS731 Compact Swivel Outlet - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	Hex 2	H Closed	H Open	H1	L	L1
FCCS731-6M-2G	6	1/8	16	10	38.0	44.0	16.0	23.5	18.0
FCCS731-6M-4G	6	1/4	16	10	36.5	42.5	16.0	23.5	16.5
FCCS731-8M-2G	8	1/8	19	14	41.5	48.0	23.0	28.0	19.0
FCCS731-8M-4G	8	1/4	19	14	41.5	48.0	23.0	28.0	19.5
FCCS731-8M-6G	8	3/8	19	14	41.5	48.0	23.0	28.0	17.5
FCCS731-10M-4G	10	1/4	23	17	45.5	53.5	26.5	35.0	21.0
FCCS731-10M-6G	10	3/8	23	17	45.5	54.0	26.5	35.0	21.5
FCCS731-12M-6G	12	3/8	23	17	45.5	54.0	31.0	38.0	21.5
FCCS731-12M-8G	12	1/2	23	17	45.5	54.0	31.0	38.0	21.0

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PLUG-IN FLOW CONTROLS



Parker's Plug-in flow controls can be directly mounted into existing fittings and allow very compact installations. They are particularly suited for mounting in manifolds using cartridges.

Product Features:

- Glass reinforced nylon 6.6 body
- Stainless steel gripping ring
- Nickel-plated brass adjustment screw
- Nickel-plated brass locking nut
- Nickel-plated tailpiece
- Nitrile D seal

Markets:

- Factory/Process Automation
- Life Science
- Food Processing
- Water And Beverage
- Petrochemical

Applications:

- Packaging
- Filling
- Dispensing
- Bottling
- Pneumatic Circuits

Specifications:

Pressure Range	15 to 145 psi (1.0 to 9.9 bar)
Temperature Range	+32° to +158° F (0 to +70° C)

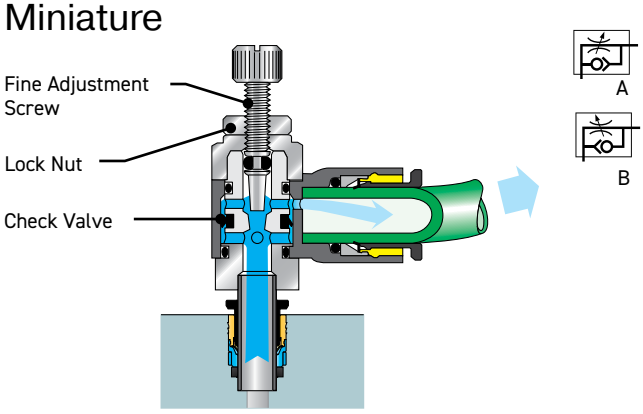
Compatible Tubing:

- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer

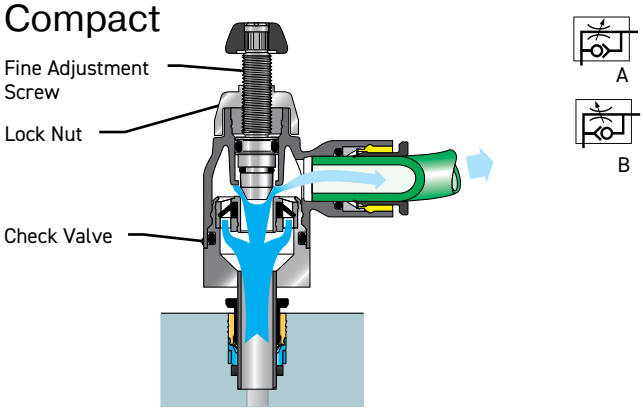
Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

Miniature

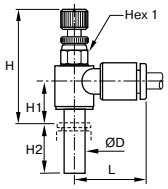


Compact



WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

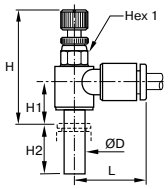




FCMSP731 Plug-In Mini Meter Out Flow Control

Part No.	Tube Size (in)	Hex 1 (mm)	H Open	H Closed	H1	H2	L
FCMSP731-2	1/8	6	1.04	.94	.12	.59	0.67
FCMSP731-4	1/4	7	1.18	1.08	.12	.73	0.73

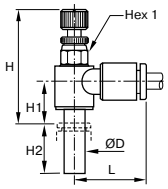




FCMSPI731 Plug-In Mini Meter In Flow Control

Part No.	Tube Size (in)	Hex 1 (mm)	H Open	H Closed	H1	H2	L
FCMSPI731-2	1/8	6	1.04	.94	.12	0.59	0.67
FCMSPI731-4	1/4	7	1.18	1.08	.12	0.73	0.73



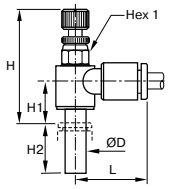


FCMSP731 - Plug-In Miniature Meter Out Flow Control

Part No.	Tube Size (mm)	Hex 1	H Closed	H Open	H1	H2	L
FCMSP731-4M (5/32)	4	6	25.5	28.0	9.5	15.5	17.0
FCMSP731-6M	6	7	27.5	29.0	10.5	17.0	18.5

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

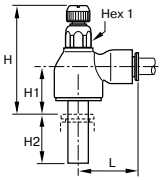




FCMSPI731 Plug-In Mini Meter In Flow Control

Part No.	Tube Size (mm)	Hex 1	H Closed	H Open	H1	H2	L
FCMSPI731-4M (5/32)	4	6	25.5	28.0	9.5	15.5	17.0
FCMSPI731-6M	6	7	27.5	29.0	10.5	17.0	18.5

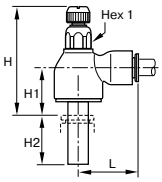




FCCSP731 Plug-In Compact Meter Out Flow Control

Part No.	Tube Size (mm)	Hex 1	H Closed	H Open	H1	H2	L
FCCSP731-6M	6	10	35.0	41.0	14.0	17.0	22.0
FCCSP731-8M	8	14	39.5	46.5	16.0	21.5	28.0
FCCSP731-12M	12	17	43.0	51.0	17.0	27.0	31.5





FCCSPI731 Plug-In Compact Meter-In Flow Control

Part No.	Tube Size (mm)	Hex 1	H Closed	H Open	H1	H2	L
FCCSPI731-6M	6	10	35.0	41.0	14.0	17.0	22.0
FCCSPI731-8M	8	14	39.5	46.5	16.0	21.5	28.0
FCCSPI731-12M	12	17	43.0	51.0	17.0	27.0	31.5

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



IN-LINE FLOW CONTROLS

Parker's In-Line flow controls are unidirectional. An arrow on the body indicates the direction of controlled flow. They can be used individually or stacked together using joining clips.

Product Features:

- Glass reinforced nylon 6.6 body
- Stainless steel gripping ring
- Nickel-plated brass adjustment screw
- Nickel-plated brass locking nut
- Nickel-plated threads
- Nitrile D seal
- Panel mountable

Markets:

- Factory/Process Automation
- Life Science
- Food Processing
- Water And Beverage
- Petrochemical

Applications:

- Packaging
- Filling
- Dispensing
- Bottling
- Pneumatic Circuits

Specifications:

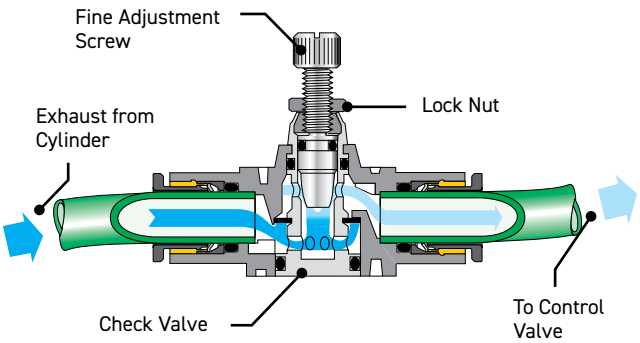
Pressure Range	15 to 145 psi (1.0 to 9.9 bar)
Temperature Range	+32˚ to +158˚ F (0 to +70˚ C)

Compatible Tubing:

- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer

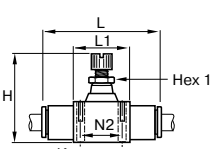
Assembly Instructions

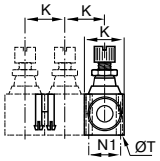
1. Cut tubing squarely – maximum of 15˚ angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.



WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



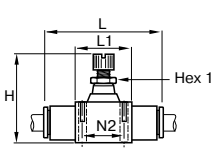


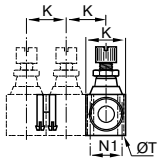


FC832 In-Line Flow Control

Part No.	Tube Size (in)	Hex 1 (mm)	H Closed	H Open	K	L	L1	N1	N2	T
FC832-4	1/4	8	1.54	1.74	.66	2.00	.90	.43	.66	.12
FC832-6	3/8	14	2.03	2.38	.94	2.87	1.29	.62	1.01	1.60
FC832-8	1/2	14	2.24	2.63	1.09	3.35	1.37	.78	1.07	.16



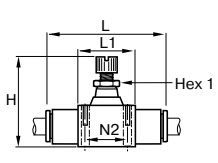


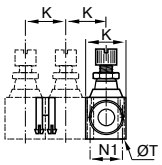


FCB832 In-Line Bi-directional Flow Control

Part No.	Tube Size (in)	Hex 1 (mm)	H Closed	H Open	K	L	L1	N1	N2	T
FCB832-4	1/4	8	1.54	1.74	.66	2.00	.90	.43	.66	.12



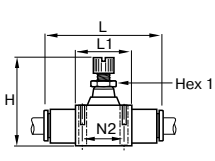


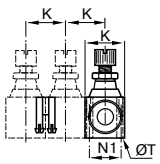


FC832 In-Line Flow Control

Part No.	Tube Size (mm)	Hex 1	H Closed	H Open	K	L	L1	N1	N2	T
FC832-4M	4	5	29.5	33.5	12	15	12	8	11	2.2
FC832-6M	6	8	40.5	44.5	17.0	51.0	23.0	11.0	17.0	3.2
FC832-8M (5/16)	8	11	44.0	50.0	18.5	60.5	26.0	12.5	20.0	3.2
FC832-10M	10	14	52.0	61.0	24.0	76.0	33.0	16.0	26.0	4.2
FC832-12M	12	14	57.5	67.5	28.0	86.0	35.0	20.0	27.5	4.2





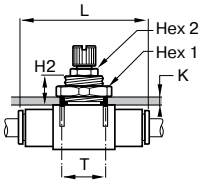


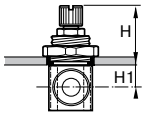
FCB832 In-Line Bi-directional Flow Control

Part No.	Tube Size (mm)	Hex 1	H Closed	H Open	K	L	L1	N1	N2	T
FCB832-4M (5/32)	4	5	29.5	33.5	12.0	36.0	15.0	8.0	11.0	2.2
FCB832-6M	6	8	40.0	44.5	17.0	51.0	23.0	11.0	17.0	3.2
FCB832-8M (5/16)	8	11	44.0	50.0	18.5	60.5	26.0	12.5	20.0	3.2

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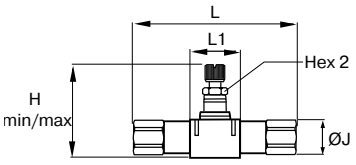


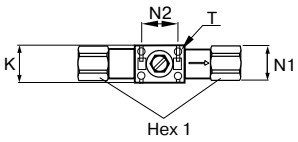


FCPM832 In-Line Panel Mountable Flow Control

Part No.	Tube Size (mm)	Hex 1	Hex 2	H Closed	H Open	K	L	H1	H2	T
FCPM832-4M	4	14		21.5	25.5	6.0	36.0	6.5	11.0	10.5
FCPM832-6M	6	19		27.5	32.5	7.0	51.0	7.5	13.5	16.5
FCPM832-8M	8	24	11	28.5	34.5	7.0	60.5	9.0	13.5	18.5
FCPM832-10M	10	30	14	29.5	38.5	7.0	76.0	11.5	13.5	24.5
FCPM832-12M	12	32	14	32.0	42.0	8.0	86.0	12.5	15.5	27.5



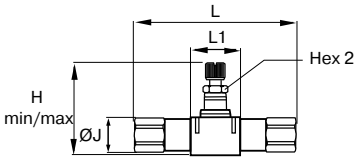


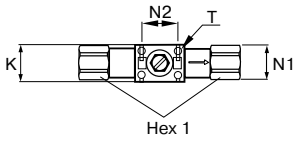


FC836 Threaded In-Line Flow Control

Part No.	NPT	Hex 1 (mm)	Hex 2 (mm)	H Closed	H Open	K	L	L1	N1	N2	T
FC836-2	1/8	13	8.00	1.56	1.75	.67	2.70	.91	.43	.67	.12
FC836-4	1/4	16	11.00	1.73	1.97	.73	3.27	1.02	.49	.79	.12
FC836-6	3/8	22	14.00	2.05	2.40	.94	3.82	1.30	.63	1.02	.16
FC836-8	1/2	24	14.00	2.26	2.66	1.10	4.76	1.38	.79	1.08	.16







FC836 Threaded In-Line Flow Control - BSPP

Part No.	BSPP	Hex 1	Hex 2	H Closed	H Open	K	L	N1	N2	T
FC836-2G	1/8	13	8	39.5	44.5	17.0	68.5	11.0	17.0	3.2
FC836-4G	1/4	16	11	44.0	50.0	18.5	83.0	12.5	20.0	3.2
FC836-6G	3/8	19	14	52.0	61.0	24.0	97.0	16.0	26.0	4.2
FC836-8G	1/2	24	14	57.5	67.5	28.0	121.0	20.0	27.5	4.2

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METAL FLOW CONTROL VALVES



Parker's Metal flow controls are suited for use in severe conditions (temperatures, sparks, abrasion, etc.). Adjustment can be made with a screwdriver and locking by use of a wrench.

Product Features:

- Treated brass body
- Stainless steel gripping ring
- Electroless-nickel-plated brass adjustment screw
- Nickel-plated brass locking nut
- Nickel-plated threads
- Nitrile D seal

Markets:

- Factory/Process Automation
- Petrochemical
- Automotive Process

Applications:

- Robotics
- Packaging
- Textile

Specifications:

Pressure Range	15 to 145 psi (1.0 to 9.9 bar)
Temperature Range	-4° to +158° F (-20° to +70° C)

Note: Temperature rating is based upon filtered, dry compressed air.

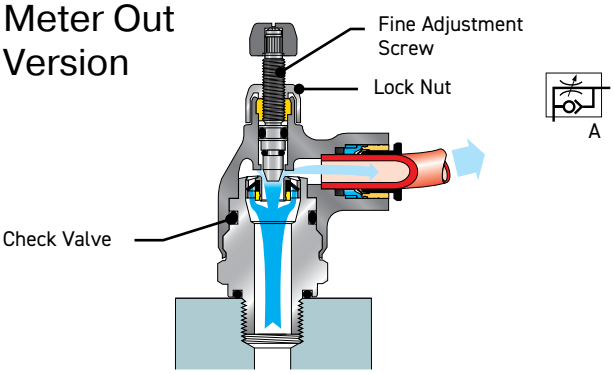
Compatible Tubing:

- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer

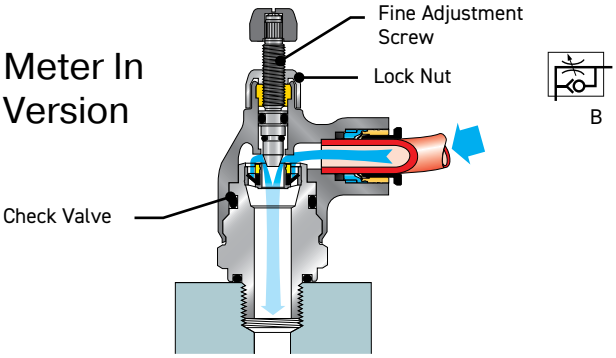
Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

Meter Out Version

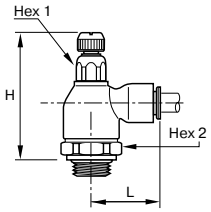


Meter In Version



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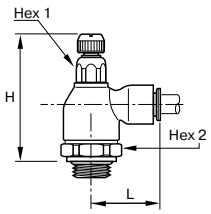




FC701 Push-to-Connect Meter Out Metal Flow Control - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	Hex 2	H Closed	H Open	L
FC701-4M-2G	4	1/8	10	19	47.0	53.0	21.0
FC701-6M-2G	6	1/8	10	19	47.0	53.0	24.5
FC701-6M-4G	6	1/4	10	19	47.5	53.0	24.5
FC701-8M-2G	8	1/8	14	19	50.0	55.0	29.0
FC701-8M-4G	8	1/4	14	19	50.0	56.0	29.0
FC701-8M-6G	8	3/8	17	25	56.0	62.0	30.5
FC701-10M-4G	10	1/4	14	19	50.0	56.0	35.0
FC701-10M-6G	10	3/8	17	25	56.0	62.0	35.0
FC701-12M-6G	12	3/8	17	25	56.0	62.0	38.0
FC701-12M-8G	12	1/2	17	25	55.0	62.0	38.0
FC701-14M-8G	14	1/2	17	25	55.0	62.0	41.0





FCI701 Push-to-Connect Meter In Metal Flow Control - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	Hex 2	H Closed	H Open	L
FCI701-4M-2G	4	1/8	10	19	47.0	53.0	21.0
FCI701 -6M-2G	6	1/8	10	19	47.0	53.0	24.5
FCI701 -6M-4G	6	1/4	10	19	47.5	53.0	24.5
FCI701 -8M-2G	8	1/8	14	19	50.0	55.0	29.0
FCI701 -8M-4G	8	1/4	14	19	50.0	56.0	29.0
FCI701 -8M-6G	8	3/8	17	25	56.0	62.0	30.5

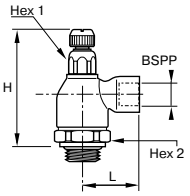
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FCK701C Knobless Compression Metal Flow Control - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	Hex 2	H	L	L1
FCK701C-4M-2G	4	1/8	13	10	26.0	25.5	14.5
FCK701C-6M-2G	6	1/8	13	13	26.0	25.5	14.5
FCK701C-6M-4G	6	1/4	17	13	31.5	28.5	17.5
FCK701C-8M-2G	8	1/8	13	14	26.0	29.5	15.5
FCK701C-8M-4G	8	1/4	17	14	31.5	31.0	17.0
FCK701C-10M-4G	10	1/4	17	19	31.5	35.0	19.0
FCK701C-10M-6G	10	3/8	20	19	44.5	37.5	19.0
FCK701C-10M-8G	10	1/2	23	19	50.0	37.5	19.0
FCK701C-12M-8G	12	1/2	23	22	50.0	38.0	21.5



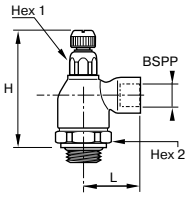


FC702 Threaded Port Meter Out Metal Flow Control - BSPP

Part No.	BSPP	Hex 1	Hex 2	H Closed	H Open	L
FC702-2G	1/8	10	19	47.0	52.5	22.5
FC702-4G	1/4	14	19	50.5	55.5	32.0
FC702-6G	3/8	17	25	56.0	62.0	34.5
FC702-8G	1/2	17	25	55.0	62.0	37.5

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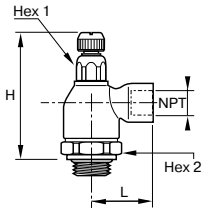




FCI702 Threaded Port Meter In Metal Flow Control - BSPP

Part No.	BSPP	Hex 1	Hex 2	H Closed	H Open	L
FCI702-2G	1/8	10	19	47.0	52.5	22.5
FCI702-4G	1/4	14	19	50.5	55.5	32.0





FC708 Threaded Port Meter Out Flow Control

Part No.	NPT	Hex 1 (mm)	Hex 2 (mm)	H Closed	H Open	L
FC708-4	1/4	19	14	1.91	2.11	1.28
FC708-6	3/8	25	17	2.15	2.40	1.36

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BRASS FLOW CONTROLS

Specifications:

Working Pressure	15 to 150 psi (1.0 to 10.34 bar)
Working Temperature	0° to +200° F (-17.8° to +93.3° C)

Note: Temperature rating is based upon filtered, dry compressed air.

Product Features:

- Controls the speed of a pneumatic actuator
- All brass Construction
- Allen wrench adjusting screw
- NPT and BSPP threads
- Threaded and Push-to-Connect bodies
- UL94 V-0 Flame Resistance Standard
- Silicone Free

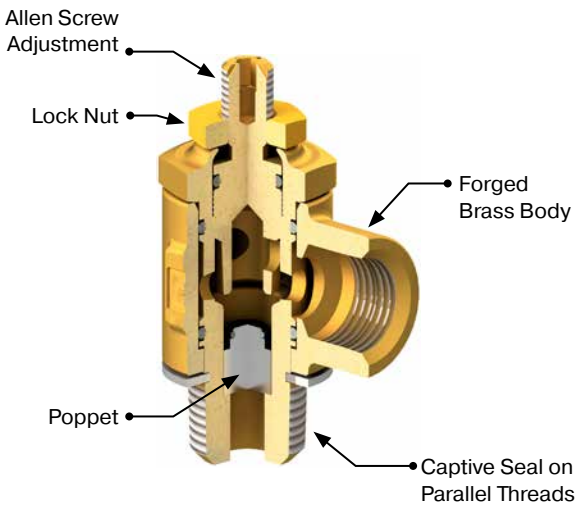
Applications:

Robotic Welding, End-of-Arm Tooling, Factory Automation, Automotive Assembly, Packaging, etc.

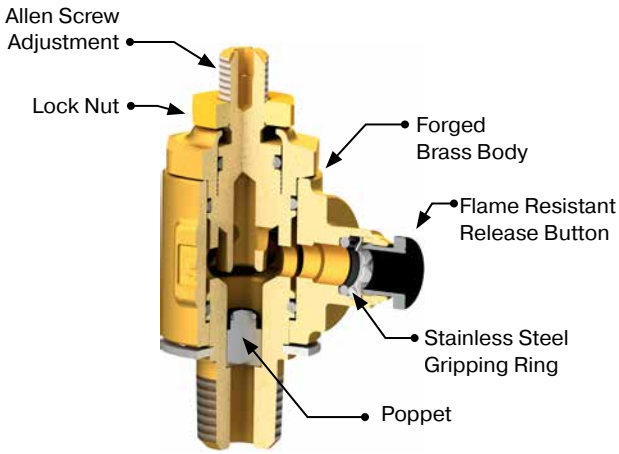
Compatible Tubing:

Polyethylene, 95FR, Polyurethane 95 Durometer Shore A, Semi-rigid Nylon, FEP Fluoropolymer

Threaded Port

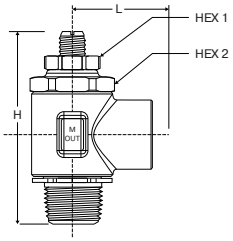


Push-to-Connect



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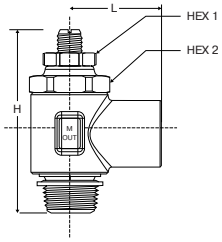




FC703 Threaded Port Meter Out Metal Flow Control – NPT

Part No.	NPT	Hex 1	Hex 2	H Open	H Closed	L
FC703-2	1/8	7/16	5/8	1.84	1.70	.67
FC703-4	1/4	5/8	15/16	2.52	2.34	1.00
FC703-6	3/8	5/8	15/16	2.44	2.29	1.00
FC703-8	1/2	13/16	1 1/8	2.72	2.60	1.31

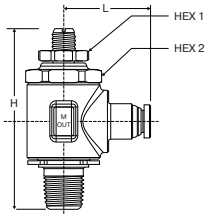




FC703 Threaded Port Meter Out Metal Flow Control – BSPP

Part No.	BSPP	Hex 1	Hex 2	H Open	H Closed	L
FC703-2G	1/8	7/16	5/8	1.84	1.70	.78
FC703-4G	1/4	5/8	15/16	2.52	2.34	1.05
FC703-6G	3/8	5/8	15/16	2.44	2.29	1.20
FC703-8G	1/2	13/16	1 1/8	2.72	2.60	1.55





FC703 Push-To-Connect Meter Out Metal Flow Control – NPT

Part No.	Tube Size (in)	NPT	Hex 1	Hex 2	H Open	H Closed	L
FC703-4-2	1/4	1/8	7/16	5/8	1.84	1.70	1.21
FC703-4-4	1/4	1/4	5/8	15/16	2.52	2.34	1.21
FC703-6-4	3/8	1/4	5/8	15/16	2.52	2.34	1.29
FC703-6-6	3/8	3/8	5/8	15/16	2.44	2.29	1.29

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IN-LINE CHECK VALVES



Parker's In-Line Check Valves allows air to pass in one direction while blocking flow in the other direction. The body of the fitting contains an arrow to indicate the direction of flow.

Product Features:

- Nylon/Nickel-plated brass body
- VC – Acetal body
- Stainless steel gripping ring
- Nickel-plated brass threads
- Nitrile O-ring
- EPDM O-ring (VC)

Markets:

- Factory/Process Automation
- Packaging
- Petrochemical
- Pneumatics
- Semi-Conductor

Applications:

- Robotics
- Packaging
- Textile
- Machine Tools
- Pneumatic Systems
- Vacuum

Specifications:

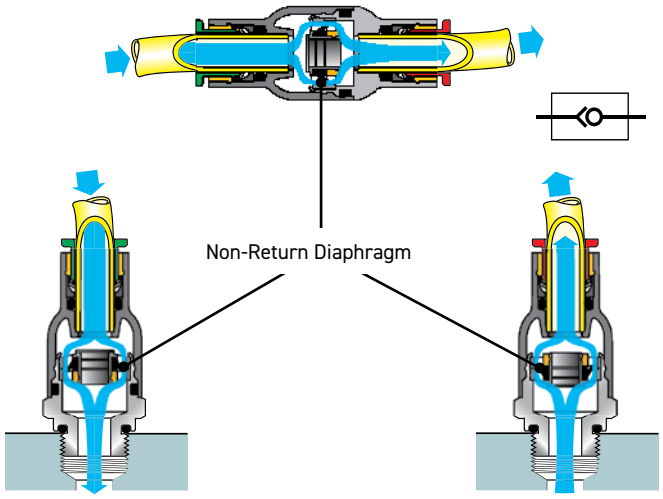
Pressure Range	15 to 145 psi (1.0 to 9.9 bar)
Temperature Range	+34° to +150° F (+1.1° to 65.5° C)
Cracking Pressure	PLCK – 7 PSI (0.4 bar), VC – 1/3 PSI (0.02 bar)

Compatible Tubing:

- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer

Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

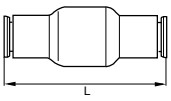


Meter In Version - Green Button

Meter Out Version - Red Button

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

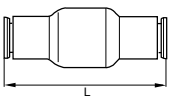




32PLCK In-Line Check Valve

Part No.	Tube Size (in)	L
32PLCK-4	1/4	1.61
32PLCK-6	3/8	2.50

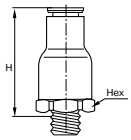




32PLCK In-Line Check Valve

Part No.	Tube Size (mm)	L
32PLCK-4M (5/32)	4	38.5
32PLCK-6M	6	41.0
32PLCK-8M (5/16)	8	51.5
32PLCK-10M	10	63.5
32PLCK-12M	12	66.5



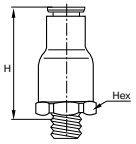


W68PLCK Male Check Valve

Part No.	Tube Size (in)	NPT/UNF	Hex (mm)	H
W68PLCK-4M-2	5/32	1/8	16	1.12
W68PLCK-4-2	1/4	1/8	19	1.42
W68PLCK-4-4	1/4	1/4	19	1.42
W68PLCK-6-4	3/8	1/4	23	1.65
W68PLCK-6-6	3/8	3/8	23	1.65

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

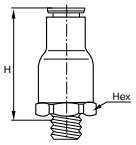




W68PLCKI Male Check Valve Meter In

Part No.	Tube Size (in)	NPT/UNF	Hex (mm)	H
68PLCKI-4M-0	5/32	10-32	9	1.26
W68PLCKI-4M-2	5/32	1/8	16	1.12
W68PLCKI-4-2	1/4	1/8	19	1.42
W68PLCKI-4-4	1/4	1/4	19	1.42
W68PLCKI-6-4	3/8	1/4	23	1.65
W68PLCKI-6-6	3/8	3/8	23	1.65

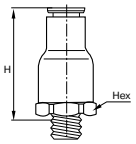




W68PLCK Male Check Valve Meter Out - BSPT

Part No.	Tube Size (mm)	BSPT	Hex 1	H
W68PLCK-4M-2R	4	1/8	16	28.5
W68PLCK -6M-2R	6	1/8	16	30.5
W68PLCK -6M-4R	6	1/4	16	30.5
W68PLCK -8M-4R	8	1/4	19	36.0
W68PLCK -12M-6R	12	3/8	23	42.0



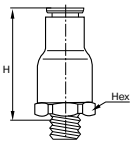


W68PLCKI Male Check Valve Meter In - BSPT

Part No.	Tube Size (mm)	BSPT	Hex 1	H
W68PLCKI-4M-2R	4	1/8	16	28.5
W68PLCKI -6M-2R	6	1/8	16	30.5
W68PLCKI -6M-4R	6	1/4	16	30.5
W68PLCKI -8M-2R	8	1/8	19	36.0
W68PLCKI -8M-4R	8	1/4	19	36.0

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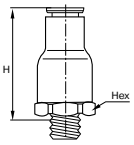




68PLCK Male Check Valve Meter Out - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	H
68PLCK-4M-M5	4	M5X0.8	9	32.0
68PLCK-6M-2G	6	1/8	16	30.5
68PLCK-6M-4G	6	1/4	16	30.5
68PLCK-8M-2G	8	1/8	19	36.0
68PLCK-8M-4G	8	1/4	19	36.0

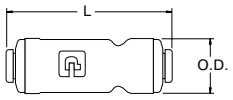




68PLCKI Male Check Valve Meter In - BSPP

Part No.	Tube Size (mm)	BSPP	Hex 1	H
68PLCKI-6M-2G	6	1/8	16	30.5
68PLCKI-8M-2G	8	1/8	19	36.0
68PLCKI-8M-4G	8	1/4	19	36.0
68PLCKI-12M-6G	12	3/8	23	42.0
68PLCKI-12M-8G	12	1/2	23	44.0





VC – Check Valve

Part No.	Tube Size (in)	L	O.D.
A4VC4-MG	1/4	2.00	.66
A5VC5-MG	5/16	2.10	.70
A6VC6-MG	3/8	2.15	.80
A8VC8-MG	1/2	2.68	.91

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



STAINLESS STEEL CHECK VALVES

Parker's Stainless Steel Check Valves are ideally suited to harsh environments and for conveying industrial fluids. These check valves allow fluids to flow in one direction and prevent them from flowing in the other.

Product Features:

- 316L Stainless Steel Body & Poppet
- 302 Stainless Steel Spring
- FKM Seals
- Smooth external surfaces contribute to equipment cleanliness
- Suitable for use in corrosive environments

Markets:

- Factory/Process Automation
- Life Science
- Food Processing
- Water And Beverage
- Petrochemical

Applications:

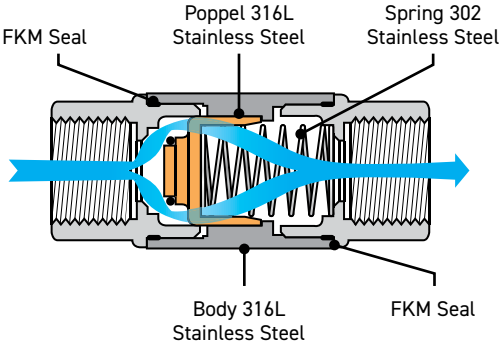
- Pneumatics
- Machine Tools
- Processing
- Chemical
- Printing

Specifications:

Pressure Range	7 to 580 PSI (0.4 to 39.9 bar)
Cracking Pressure	3.6 PSI (0.2 bar)
Temperature Range	-4˚ to +356˚ F (-20° to +180° C)

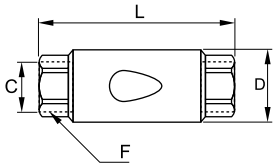
Flow Characteristics

Model	Water Flow at 90 PSI	KV
1/8	.67 SCFM	1.60
1/4	.70 SCFM	1.69
3/8	1.26 SCFM	3.01
1/2	1.29 SCFM	3.10
3/4	2.33 SCFM	5.59
1	3.27 SCFM	7.86



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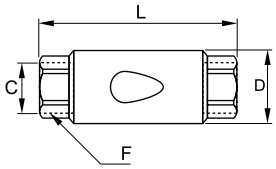




4890 Unidirectional Female - BSPP

Part No.	C	DN	D (mm)	F (mm)	L (mm)	Wt (kg)
4890 10 10	G1/8	10	22	17	50	.084
4890 13 13	G1/4	10	22	17	50	.074
4890 17 17	G3/8	15	30	22	67	.182
4890 21 21	G1/2	15	30	25	71	.196
4890 27 27	G3/4	20	42	32	84	.288
4890 34 34	G1	25	42	38	90	.416



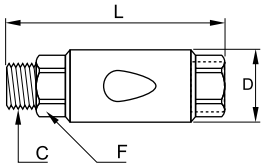


4895 Unidirectional Female - NPT

Part No.	C	DN	D (mm)	F (mm)	L (mm)	Wt (kg)
4895 11 11	1/8	10	22	18	50	.084
4895 14 14	1/4	10	22	18	54	.080
4895 18 18	3/8	15	30	22	73	.198
4895 22 22	1/2	15	30	25	77	.213

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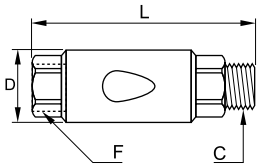




4891 Unidirectional Male to Female - BSPP

Part No.	C	DN	D (mm)	F (mm)	L (mm)	Wt (kg)
4891 10 10	G1/8	10	22	17	56	.086
4891 13 13	G1/4	10	22	17	58	.082
4891 17 17	G3/8	15	30	22	75	.190
4891 21 21	G1/2	15	30	25	79	.280
4891 27 27	G3/4	20	42	32	98	.302
4891 34 34	G1	25	42	38	104	.424





4892 Unidirectional Female to Male - BSPP

Part No.	C	DN	D (mm)	F (mm)	L (mm)	Wt (kg)
4892 10 10	G1/8	10	22	17	56	.086
4892 13 13	G1/4	10	22	17	58	.082
4892 17 17	G3/8	15	30	22	75	.190
4892 21 21	G1/2	15	30	25	79	.280
4892 27 27	G3/4	20	42	32	98	.302
4892 34 34	G1	25	42	38	104	.424

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

PILOTED OPERATED CHECK VALVES



Parker's Piloted Operated Check Valves are designed to protect installations. If the compressed air supply is removed they lock the air supply to the cylinder, maintaining it in position.

Product Features:

- Orientable and adjustable through 3 axis
- Can be integrated into any installation configuration
- Vent saves time on restart after maintenance operations
- Multi-purpose fitting
  - Piloted non-return valve
  - Flow control regulator
  - Manual exhaust

Markets:

- Factory/Process Automation
- Food Processing
- Pneumatics
- Automotive

Applications:

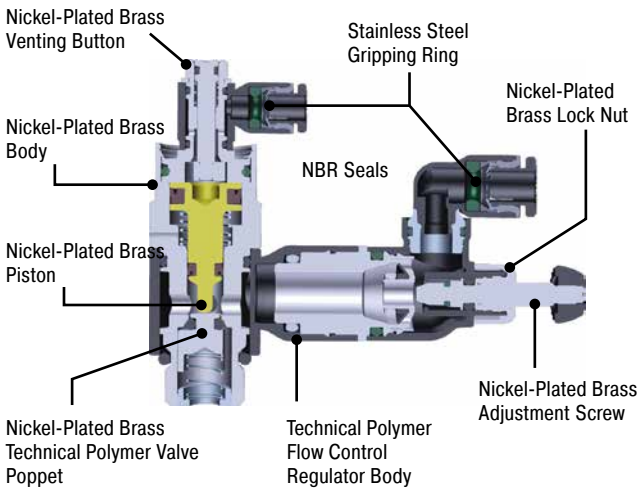
- Pneumatics
- Machine Tools
- Processing
- Packaging
- Assembly

Specifications:

Pressure Range	14 to 145 PSI (0.9 to 9.9 bar)
Cracking Pressure	4.3 PSI (0.2 bar)
Temperature Range	+23° to +140° F (-5° to 60° C)

Assembly Instructions

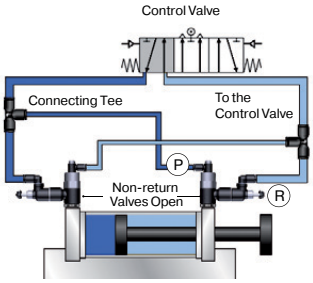
1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.



WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

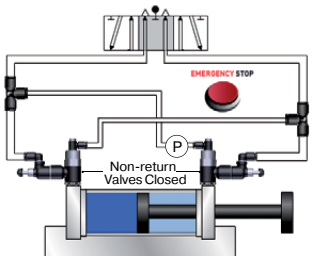
Operation

Normal Operation



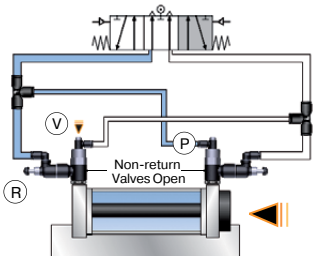
Pilot signal (P)
Regulation of cylinder rod speed (R)

Emergency Stop or Pressure Drop

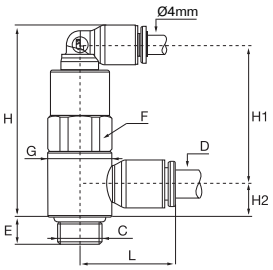


Drop/removal of pilot pressure (P) = cylinder rod locked

Venting Operation



Venting (V) returns the cylinder rod to the to start position, emptying the pressure chamber through the flow regulator (R) and pilot line (P)

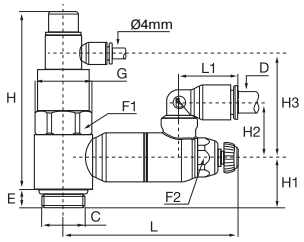




7892 Piloted Non-Return Valve - BSPP

Part No.	D (mm)	C	E (mm)	F (mm)	g (mm)	H (mm)	H1 (mm)	H2 (mm)	L (mm)	Wt (kg)
7892 06 10	6	G1/8	6	13	14	42	30	7	21	.028
7892 06 13	6	G1/4	9	17	18.5	45	32	9	23	.049
7892 08 10	8	G1/8	6	13	14	42	29	9	25	.029
7892 08 13	8	G1/4	9	17	18.5	45	32	9	27	.051
7892 08 17	8	G3/8	6	20	22.5	57	41	11	28	.093
7892 10 17	10	G3/8	6	20	22.5	57	41	11	31	.094
7892 10 21	10	G1/2	10	24	28	63	47	16	36	.172
7892 12 21	12	G1/2	10	24	28	63	47	16	36	.162

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





7894 Piloted Non-Return Valve with Flow Regulator and Exhaust - BSPP

Part No.	D (mm)	C	E (mm)	F1 (mm)	F2 (mm)	g (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	L min	L max	L (mm)	Wt (kg)
7894 06 10	6	G1/8	6	13	8	14	46	7	24	31	48.5	51	16	.049
7894 06 13	6	G1/4	9	17	10	18.5	49	11	18	31	59.5	65	17	.081
7894 08 10	8	G1/8	6	13	8	14	46	7	27	31	48.5	51	22	.050
7894 08 13	8	G1/4	9	17	10	18.5	49	11	23	31	59.5	65	23	.084
7894 08 17	8	G3/8	6	20	14	22.5	69	13	21	40	67.5	73	23	.148
7894 10 17	10	G3/8	6	20	14	22.5	69	13	29	40	67.5	73	26	.152
7894 10 21	10	G1/2	10	24	17	28	76	12.5	26	47	74	81	26	.234
7894 12 21	12	G1/2	10	24	17	28	76	12.5	27	47	74	81	30	.236

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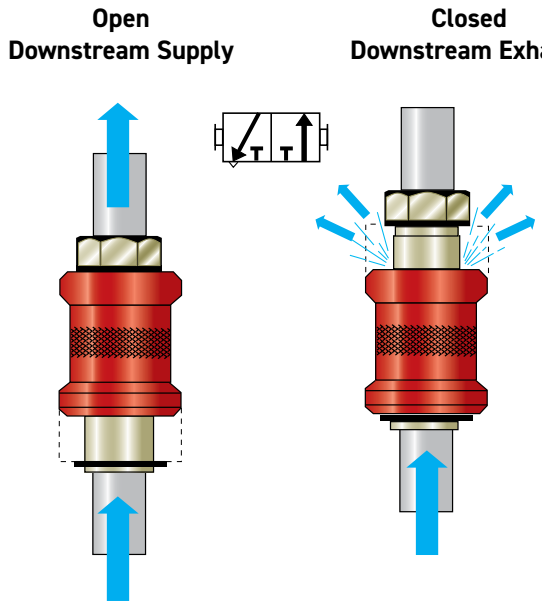


PNEUMATIC SLIDE VALVES

Parker's Slide Valves may be used to effect an immediate isolation of the air line by venting the system to atmosphere. By moving the sleeve in one direction, the air is free to pass through the slide valve to the system. By moving it in the opposite direction, the supply is shut off and the downstream air is allowed to exhaust to the atmosphere.

Product Features:

- Lightweight due to use of aluminum
- Nitrile Seals
- Immediate identification of the venting system by the color (red)
- Uni-directional use ensures the downstream circuit is vented
- Operated in the plane of the tube



Markets:

- Factory/Process Automation
- Food Processing
- Packaging

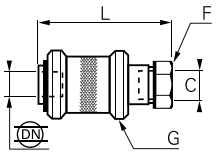
Applications:

- Pneumatics
- Conveyors
- Packaging
- Textile
- Plastics Engineering

Specifications:

Pressure Range	Up to 230 PSI (15.8 bar)
Temperature Range	+15˚ to +175˚ F (-9.4° to +79.4° C)

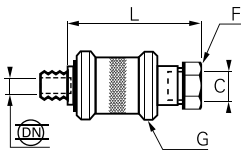
⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





0660 Female Slide Valve - NPT

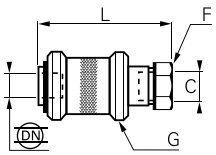
Part No.	C	DN	F	G	L	Wt (oz)
0660 04 11	1/8	.16	.55	.98	1.89	2.12
0660 07 14	1/4	.27	.67	1.18	2.28	3.71
0660 10 18	3/8	.39	.87	1.38	2.68	6.18





0661 Male to Female Slide Valve - NPT

Part No.	C	DN	F	G	L	Wt (oz)
0661 07 14	1/4	.27	.67	1.18	2.75	4.59
0661 10 18	3/8	.39	.87	1.38	3.21	7.59





0669 Female Slide Valve - BSPP

Part No.	C	DN	F (mm)	G (mm)	L (mm)	Wt (kg)
0669 02 19	M5X0.8	2	10	14	30.5	.045
0669 04 10	G1/8	4	14	25	48	.051
0669 07 13	G1/4	7	19	30	58	.084
0669 10 17	G3/8	10	22	35	68	.153
0669 14 21	G1/2	14	27	40	80	.227
0669 19 27	G3/4	19	32	50	83	.242

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QUICK EXHAUST VALVE

Parker's Quick Exhaust Valve increases the return speed of the cylinder rod by allowing the exhaust to pass directly to atmosphere.

Product Features:

- Nickel plated brass body
- Nylon seal
- Polyurethane piston
- Reduction in cycle times: return speed improved
- Excellent exhaust capacity
- Ideal for applications in restrictive environments

Markets:

- Factory/Process Automation
- Packaging
- Industrial
- Pulp & Paper

Applications:

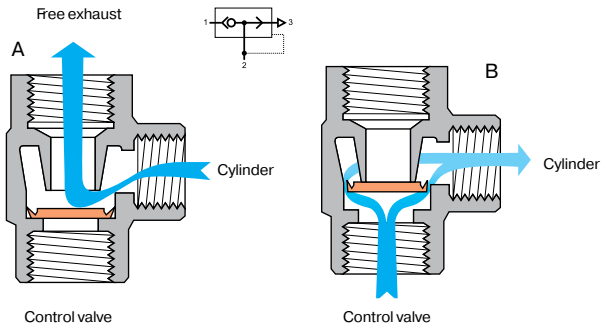
- Pneumatics
- Conveyors
- Packaging
- Textile
- Plastics Engineering

Specifications:

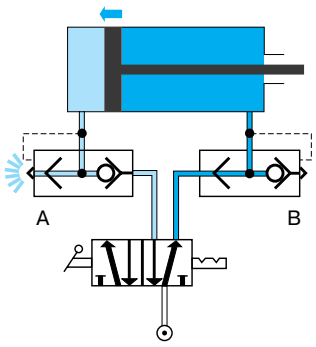
Pressure Range	10 to 150 PSI (0.6 to 10.3 bar)
Temperature Range	0˚ to +160˚ F (-17.7 to +71.1˚ C)

Operation:

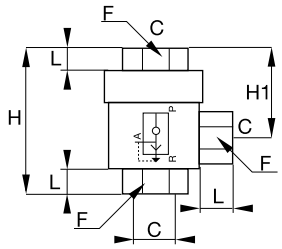
Mounted on Cylinder



Installation Diagram



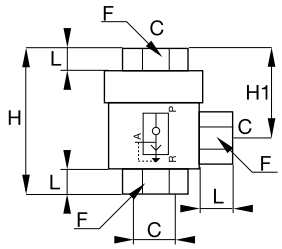
WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





7970 Quick Exhaust Valve Threaded Ports - BSPP

Part no.	c	f	h	h1	l	wt.oz.
7970 19 19	M5 x 0.8	10	24.8	15.6	4	.029
7970 10 10	G1/8	14	42	28	8	.084
7970 13 13	G1/4	19	53	34.5	11	.148
7970 17 17	G3/8	21	58	36	12	.153
7970 21 21	G1/2	26	71	44	14	.316
7970 27 27	G3/4	32	86	52	18	.449
7970 34 34	G1	38	94	56	19	.531





7982 Quick Exhaust Valve Threaded Ports - NPT

Part no.	c	f	h	h1	l	wt. oz.
7982 14 14	1/4	19	2.11	1.38	.37	5.18
7982 18 18	3/8	20	2.19	1.42	.35	5.64
7982 22 22	1/2	26	2.83	1.77	.55	11.29

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BLOCKING VALVES

Parker's Blocking Valves prevents damage to work and equipment in the event of a loss of pressure. Blocking valves which are mounted in pairs on a cylinder lock the piston by simultaneously cutting off the supply and exhaust.

Product Features:

- Treated brass body
- Stainless steel gripping ring
- Nickel-plated brass threads
- NBR seals
- Silicone free

Markets:

- Factory/Process Automation
- Packaging
- Petrochemical
- Automotive Process

Applications:

- Robotics
- Packaging
- Textile
- Machine Tools

Compatible Tubing:

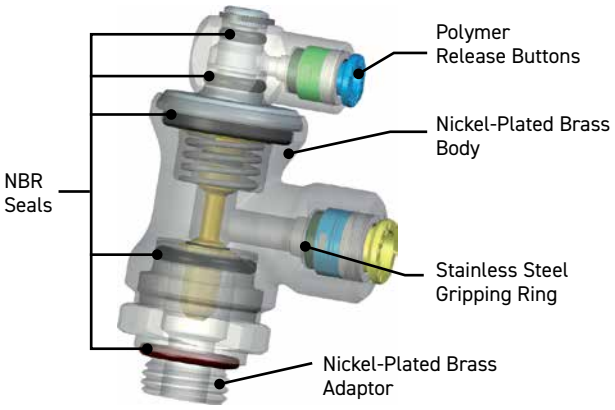
- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer

Specifications:

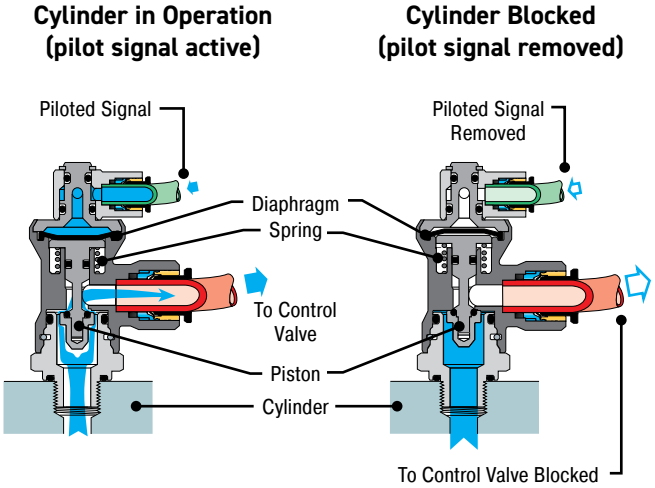
Pressure Range	15 to 145 PSI (1.0 to 9.9 bar)
Temperature Range	-4° to +160° F (-20° to +71.1° C)
Leak Rate	<3.2CCM
Number of Cycles	>10 Million at 68°F and 1 HZ

Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

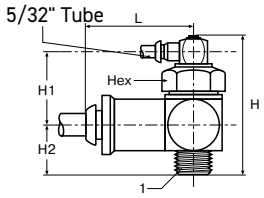


Operation



WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

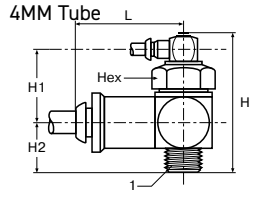




FC601 Push-to-Connect Lock Out Valves

Part No.	Tube Size (in)	NPT	Hex (mm)	H	H1	H2	L
FC601-4-2	1/4	1/8	21	2.03	1.24	.79	1.10
FC601-4-4	1/4	1/4	21	2.03	1.24	.79	1.10

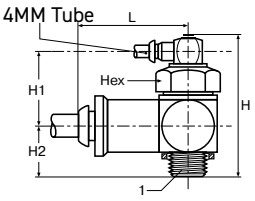




FC601 Push-to-Connect Lock-Out Valve - BSPT

Part No.	Tube Size (mm)	BSPT	Hex	H	H1	H2	L
FC601-6M-2R	6	1/8	21	53	24.5	21.0	28.0
FC601-6M-4R	6	1/4	21	53	24.5	21.0	28.0
FC601-8M-4R	8	1/4	21	53	24.5	21.0	28.0
FC601-8M-6R	8	3/8	24	56	25.0	23.0	34.5
FC601-10M-6R	10	3/8	24	56	25.0	23.0	35.0
FC601-12M-8R	12	1/2	24	56	25.0	23.0	37.5



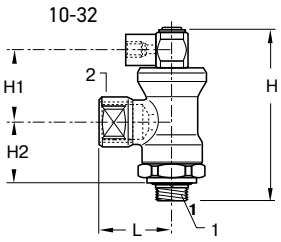


FC601 Push-to-Connect Lock-Out Valve - BSPP

Part No.	Tube Size (mm)	BSPP	Hex	H	H1	H2	L
FC601-6M-2G	6	1/8	21	53	24.5	21.0	28.0
FC601-6M-4G	6	1/4	21	53	24.5	21.0	28.0
FC601-8M-4G	8	1/4	21	53	24.5	21.0	28.0
FC601-8M-6G	8	3/8	24	56	25.0	23.0	34.5
FC601-10M-6G	10	3/8	24	56	25.0	23.0	35.0
FC601-12M-8G	12	1/2	24	56	25.0	23.0	37.5

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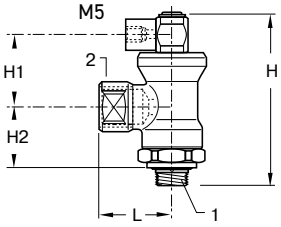




FC602 Threaded Port Lock Out Valves

Part No.	1 NPT	2 NPT	Hex (mm)	H	H1	H2	L
FC602-2	1/8	1/8	21	2.03	1.24	.79	1.04
FC602-4	1/4	1/4	21	2.03	1.24	.79	1.04
FC602-6	3/8	3/8	24	2.19	1.14	1.04	1.34
FC602-8	1/2	1/2	24	2.19	1.14	1.04	1.57

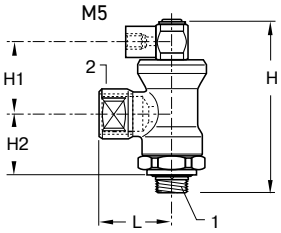




FC608 Threaded Port Lock-Out Valve - BSPT

Part No.	BSPT 1	BSPT 2	Hex	H	H1	H2	L
FC608-4R-2R	1/8	1/4	21	51.5	31.5	20.0	26.5
FC608-4R-4R	1/4	1/4	21	51.5	31.5	20.0	26.5
FC608-6R-6R	3/8	3/8	24	55.5	29.0	26.5	34.0
FC608-8R-8R	1/2	1/2	24	55.5	29.0	26.5	40.0





FC608 Threaded Port Lock-Out Valve - BSPP

Part No.	BSPP 1	BSPP 2	Hex	H	H1	H2	L
FC608-4G-2G	1/8	1/4	21	53	24.5	21.0	28.0
FC608-4G-4G	1/4	1/4	21	53	24.5	21.0	28.0
FC608-6G-6G	3/8	3/8	24	56	25.0	23.0	34.0
FC608-8G-8G	1/2	1/2	24	56	25.0	23.0	41.0

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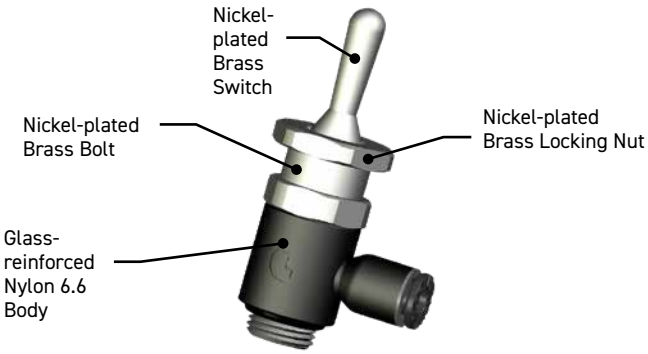
MANUALLY-OPERATED VALVES

Parker Legris' manually-operated valves offer a reliable and durable system for opening and closing the circuit when the system has to be switched frequently. They provide a significant reduction in the time needed to work on pneumatic circuits.

Product Features:

Manual Switch-Operated Valves

- Downstream control supply provided by simply moving the lever
- 2 models available to provide the best solution for the system:
  - 3/2: opening, closing, venting
- Compact and ergonomic (can be positioned through 360°)
- Silicone-Free



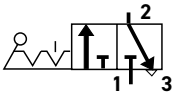
Markets:

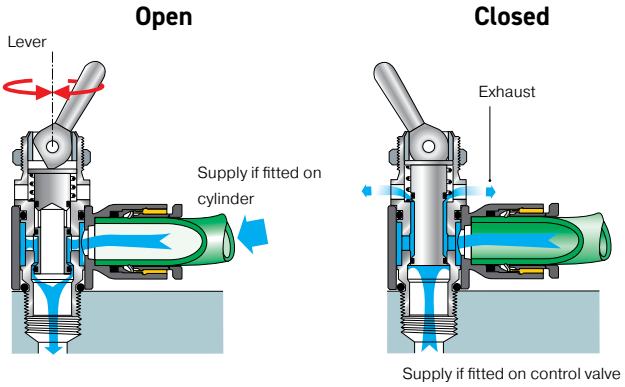
- Factory/Process Automation
- Packaging
- Industrial
- Pulp & Paper

Applications:

- Robotics
- Conveyors
- Textile
- Plastics Engineering
- Printing
- Pneumatics
- Packaging

Switch-Operated Valves

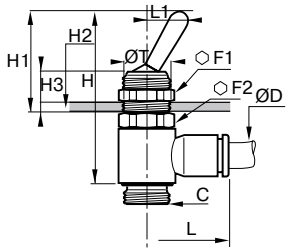




Specifications:

Compatible Fluids	Compressed air
Working Pressure	230 psi (15.8 bar)
Working Temperature	15° to 175° F (-10° to 80° C)

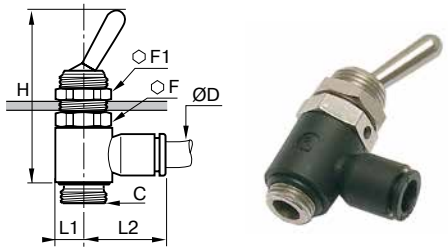
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7805/7806 Manually Operated 3-Way Venting Valve Fractional Inch Tube to NPT

Part No. Supply (1)	ØD (in)	C NPT	F1 (mm)	F2 (mm)	H (in)	H1 (in)	H2 (in)	H3 (in)	L (in)	L1 (in)	ØT (in)	W (oz)
7805 04 11	5/32	1/8	14	14	1.69	.98	.18	.30	.75	.43	.49	.95
7805 56 11	1/4	1/8	14	14	1.69	.98	.18	.30	.85	.43	.49	1.02
7805 56 14	1/4	1/4	14	17	1.99	.98	.18	.30	.89	.43	.49	1.55
7805 60 14	3/8	1/4	14	17	1.99	.98	.18	.30	1.14	.43	.49	1.69

Part No. Supply (2)	ØD (in)	C NPT	F1 (mm)	F2 (mm)	H (in)	H1 (in)	H2 (in)	H3 (in)	L (in)	L1 (in)	ØT (in)	W (oz)
7806 04 11	5/32	1/8	14	14	1.69	.98	.18	.30	.75	.43	.49	.95
7806 56 11	1/4	1/8	14	14	1.69	.98	.18	.30	.85	.43	.49	1.02
7806 56 14	1/4	1/4	14	17	1.99	.98	.18	.30	.89	.43	.49	1.55
7806 60 14	3/8	1/4	14	17	1.99	.98	.18	.30	1.14	.43	.49	1.69



7800/7801 Manually Operated 3-Way Venting Valve Metric Tube to BSPP or Metric

Part No. Supply (1)	ØD (mm)	C BSPP	F (mm)	F1 (mm)	H (mm)	L1 (mm)	L2 (mm)	W (kg)
7800 04 19	4	M5X0.8	8	-	32	5	16	.020
7800 04 10	4	G1/8	14	14	42.5	7	18.5	.027
7800 06 19	6	M5X0.8	8	-	32	5	19	.022
7800 06 10	6	G1/8	14	14	42.5	7	20	.029
7800 06 13	6	G1/4	17	17	51	9	22	.044
7800 08 10	8	G1/8	14	14	42.5	7	25	.030
7800 08 13	8	G1/4	17	17	51	9	27	.045

Part No. Supply (2)	ØD (mm)	C BSPP	F (mm)	F1 (mm)	H (mm)	L1 (mm)	L2 (mm)	W (kg)
7801 04 19	4	M5X0.8	8	-	32	5	16	.020
7801 04 10	4	G1/8	14	14	42.5	7	18.5	.027
7801 06 19	6	M5X0.8	8	-	32	5	19	.022
7801 06 10	6	G1/8	14	14	42.5	7	20	.029
7801 06 13	6	G1/4	17	17	51	9	22	.044
7801 08 10	8	G1/8	14	14	42.5	7	25	.030

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THRESHOLD SENSOR FITTINGS

Parker's Threshold Senor Fitting detects the pressure drop when a cylinder reaches the end of its stroke. They produce a pneumatic or electrical output signal when the pressure drop in the exhaust chamber of the cylinder goes below their back pressure threshold.

Product Features:

- Polymer body
- Brass screw
- NBR seal

Markets:

- Factory/Process Automation
- Packaging
- Pneumatics
- Semi-Conductor

Applications:

- Robotics
- Packaging
- Textile
- Machine Tools
- Pneumatic Systems

Specifications:

Model PSBJ,PSPJ

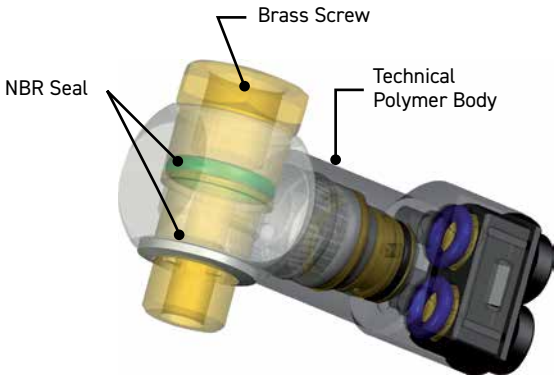
Pressure Range	45 to 115 PSI (3.1 to 7.9 bar)
Temperature Range	+5° to +140° F (-15° to +60° C)
Breaking Pressure	8.5 PSI (0.5 bar)
Response Time	3 MS

Model PSPE

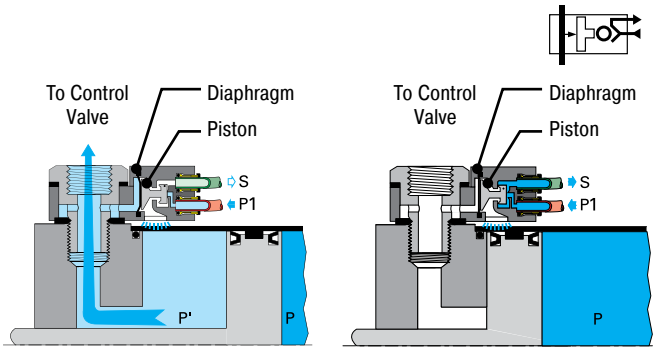
Pressure Range	45 to 115 PSI (3.1 to 7.9 bar)
Breaking Pressure	8.5 PSI (0.5 bar)
Current Rating	5A/250VAC – 5W/48VDC

Compatible Tubing:

- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer



Operation

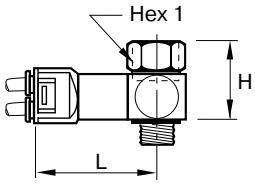


P' - Exhaust Back Pressure
P - Dynamic Pressure

P1 - Sensor Supply Pressure
S - Output Signal

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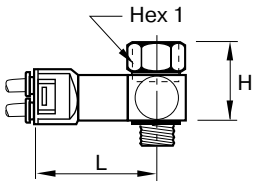




PSBJ731 Pneumatic Threshold Sensor - 5/32 Pilot

Part No.	NPT/UNF	Hex (mm)	H	L
PSBJ731-0	10-32	5/16	.62	1.70
PSBJ731-6	3/8	7/8	1.13	1.91
PSBJ731-8	1/2	1	1.17	2.05

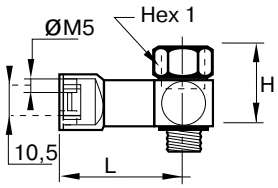




PSBJ731 Pneumatic Threshold Sensor - 4mm Pilot

Part No.	BSPP	Hex 1	H	L
PSBJ731-M5	M5X0.8	8	16	43.5
PSBJ731-2G	1/8	14	23	44.5
PSBJ731-4G	1/4	17	28	46.5
PSBJ731-6G	3/8	22	29	49.0
PSBJ731-8G	1/2	27	30	52.5



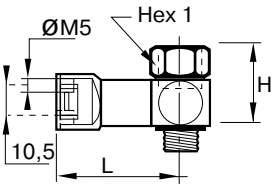


PSPJ731 Pneumatic Threshold Sensor - 10-32 Pilot

Part No.	NPT	Hex 1 (mm)	H	L
PSPJ731-2	1/8	9/16	.90	1.58
PSPJ731-4	1/4	5/8	1.09	1.66

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

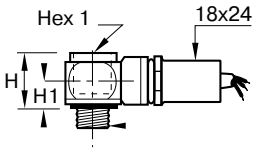




PSBJ708 Pneumatic Threshold Sensor - M5 Pilot

Part No.	BSPP	Hex 1	H	L
PSBJ708-2G	1/8	14	23	40.5
PSBJ708-4G	1/4	17	28	42.5





PSPE731 Pneumatic / Electric Threshold Sensor - BSPP

Part No.	BSPP	Hex 1	H	H1	L
PSPE731-M5	M5X0.8	8	20	10	49
PSPE731-2G	1/8	6	20	10	52
PSPE731-4G	1/4	8	20	10	54
PSPE731-6G	3/8	10	22	12	57

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



MINI BALL VALVES

Parker's Mini Ball Valves enable in-line opening and closing of a pneumatic circuit. Handles are color coded and marked with the corresponding pneumatic symbol, in order to enable immediate identification by the user.

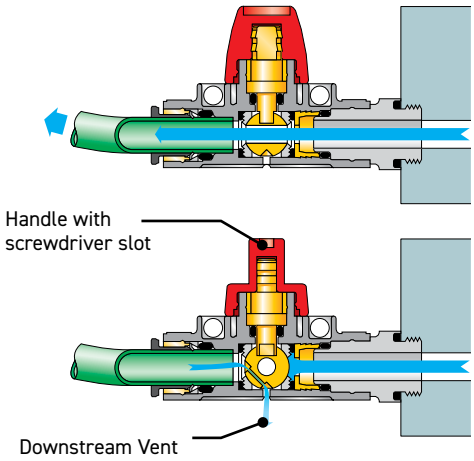
Product Features:

- Nylon body
- Brass stem
- Stainless steel gripping ring
- NBR stem seal
- NBR o-ring
- Nylon Handle
- Lightweight and compact

Compatible Tubing:

- Semi-rigid nylon
- Polyurethane 95 Durometer Shore A
- Nylon
- Fluoropolymer

Operation



Markets:

- Factory/Process Automation
- Packaging
- Petrochemical
- Pneumatics
- Semi-Conductor

Applications:

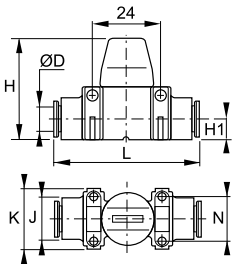
- Robotics
- Packaging
- Textile
- Machine Tools
- Pneumatic Systems
- Vacuum

Specifications:

Pressure Range	145 PSI (9.9 bar)
Temperature Range	-4° to 175° F (-20° to +79.4° C)
Vacuum Capability	28" Hg

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

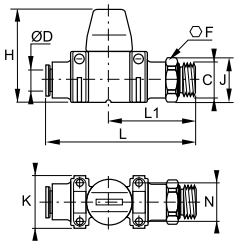




MVV309 Mini Ball Valve Vented Push-To-Connect Ports

Part No.	Tube Size (in)	H	H1	J	K	L	N
Fractional Inch							
MVV309-4	1/4	1.46	.30	.59	.87	2	.64
MVV309-6	3/8	1.96	.43	.79	1.18	2.6	.87
Metric							
MVV309-6M	6	37.00	7.50	15.00	22.00	52	16.20
MVV309-8M (5/16)	8	37.00	7.50	15.00	22.00	52	16.20
MVV309-10M	10	43.00	11.00	20.00	30.00	66	22.00
MVV309-12M	12	43.00	11.00	20.00	30.00	66	22.00



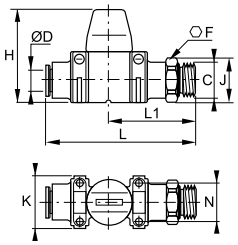


MVV308 Mini Ball Valve Vented NPT to Push-To-Connect Port

Part No.	Tube Size (mm)	BSPP	F	H	J	K	L	L1	N
MVV308-5/32-2	5/32	1/8	13	1.46	.55	.87	2.44	1.46	.64
MVV308-4-2	1/4	1/8	13	1.46	.55	.87	2.44	1.46	.64
MVV308-4-4	1/4	1/4	14	1/46	.59	.87	2.44	1.38	.64
MVV308-5-4	5/16	1/4	14	1/46	.59	1.18	2.40	1.61	.64
MVV308-6-4	3/8	1/4	16	1.69	.69	1.18	2.40	1.65	.87
MVV308-6-6	3/8	3/8	18	1.69	.77	1.18	2.91	1.65	.87

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

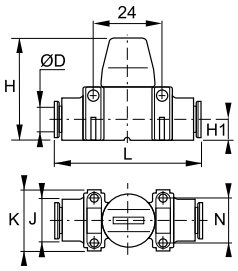




MVV308 Mini Ball Valve Vented BSPP to Push-To-Connect Port

Part No.	Tube Size (mm)	BSPP	F	H	J	K	L	L1	N
MVV308-6M-2G	6	G1/8	13	37	14.00	22	62	37	16.20
MVV308-8M-4G	8	G1/4	16	37	17.50	22	61	35	16.20
MVV308-10M-6G	10	G3/8	20	43	22.00	30	74	41	22.00

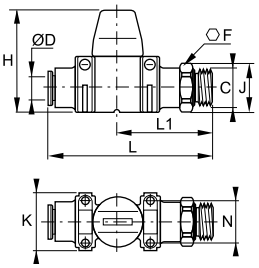




MV309 Mini Ball Valve Push-To-Connect Ports

Part No.	Tube Size (in)	H	H1	J	K	L	N
Fractional Inch							
MV309-4	1/4	1.46	.30	.59	.87	2.05	.64
MV309-6	3/8	1.69	.43	.79	1.18	2.60	.64
Metric							
MV309-6M	6	37.00	7.50	15.00	22.00	52.00	16.20
MV309-8M (5/16)	8	37.00	7.50	15.00	22.00	52.00	16.20
MV309-10M	10	43.00	11.00	20.00	30.00	66.00	16.20
MV309-12M	12	43.00	11.00	20.00	30.00	66.00	16.20





MV308 Mini Ball Valve BSPP to Push-To-Connect Port

Part No.	Tube Size (mm)	BSPP	F	H	J	K	L	L1	N
MV308-6M-2G	6	G1/8	13	37	14	22	62	37	16.20
MV308-10M-6G	10	G3/8	20	43	22	30	74	41	16.20
MV308-12M-8G	12	G1/2	24	43	26	30	75	42	16.20

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Notes



WATER & BEVERAGE

Thermoplastic, Fittings and Valves, LIQUIfit Fittings, TrueSeal™ Fittings, Fast & Tite® Fittings, Par-Barb® Fittings

Parker



LIQUIFIT FITTINGS

Parker's LIQUIfit Fittings offer an innovative alternative for water applications. These fittings ensure reliable and compact connection for liquid transfer applications.

Product Features:

- Stainless steel grab ring
- Bio-sourced nylon 11
- EPDM seal
- FDA compliant, NSF/ANSI 51 and NSF/ANSI/CAN 61
- Silicone free
- 100% leak tested in production
- Date coding to guarantee quality and traceability

Markets:

- Water Filtration
- Beverage Dispensing
- Life Science
- Bottling
- Semi-Conductor

Applications:

- Water
- Beverages
- Food
- CO_2
- Vacuum

Specifications:

Pressure Range	Up to 230 PSI (16 bar)
Temperature Range	+35° to +200° F (+1.7° to +93.3° C)

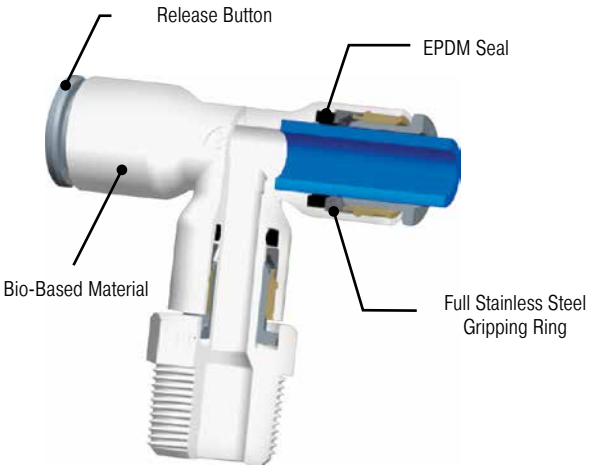
Note: The working specification depends on the type and wall thickness of the tube, the type of fluid, fluid Temperature and ambient temperature

Compatible Tubing:

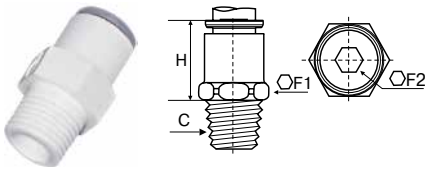
- Polyethylene

Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

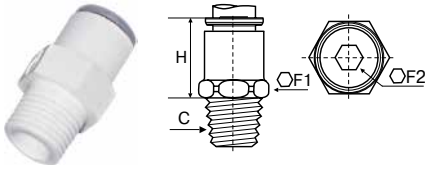


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6505 Male Connector Inch Tube to NPTF

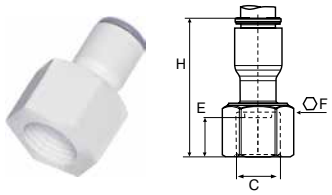
Part No.	Tube Size (in)	C NPTF	F1	F2	H
6505 56 11WP2	1/4	1/8	1/2	5/32	.67
6505 56 14WP2	1/4	1/4	9/16	5/32	.67
6505 56 18WP2	1/4	3/8	3/4	1/4	.85
6505 60 11WP2	3/8	1/8	3/4	5/32	.87
6505 60 14WP2	3/8	1/4	3/4	1/4	.87
6505 60 18WP2	3/8	3/8	3/4	1/4	.87
6505 60 22WP2	3/8	1/2	15/16	1/4	1.06
6505 62 18WP2	1/2	3/8	15/16	3/8	1.10
6505 62 22WP2	1/2	1/2	15/16	3/8	1.10



6505 Male Connector Metric Tube to BSPT

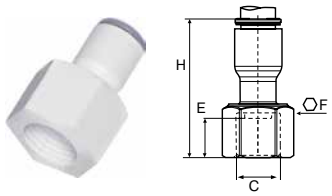
Part No.	Tube Size (mm)	C BSPT	F1	F2	H
6505 04 10WP2	4	1/8	11	3	18.00
6505 06 10WP2	6	1/8	11	4	18.00
6505 06 13WP2	6	1/4	14	4	18.00
6505 08 10WP2	8	1/8	17	6	20.00
6505 08 13WP2	8	1/4	17	6	20.00
6505 08 17WP2	8	3/8	17	6	20.00
6505 10 13WP2	10	1/4	17	7	21.50
6505 10 17WP2	10	3/8	19	7	21.50
6505 10 21WP2	10	1/2	22	7	21.50
6505 12 17WP2	12	3/8	19	9	24.50
6505 12 21WP2	12	1/2	22	9	24.50

⚠ WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



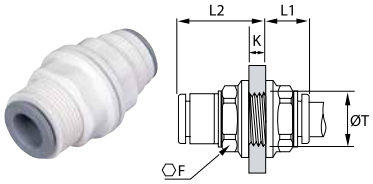
6315 Female Connector Inch Tube to NPTF

Part No.	Tube Size (in)	C NPTF	E	F	H
6315 56 14WP2	1/4	1/4	14	11/16	1.18
6315 60 18WP2	3/8	3/8	14	3/16	1.42



6315 Female Connector Metric Tube to BSPT

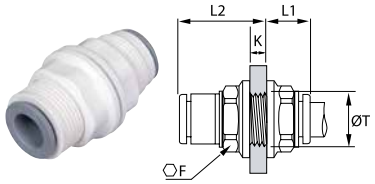
Part No.	Tube Size (mm)	C BSPT	E	F	H
6315 06 10WP2	6	1/8	11	13	32.00
6315 06 13WP2	6	1/4	14	16	33.00
6315 08 13WP2	8	1/4	14	16	33.50



6316 Bulkhead Union Inch Tube

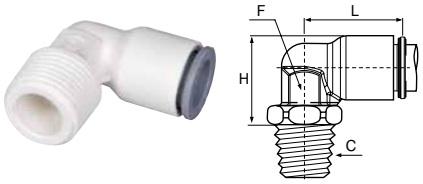
Part No.	Tube Size (in)	F	K (max)	L1	L2	T (min)
6316 04 00WP2	5/32	.51	.22	.41	.61	.41
6316 56 00WP2	1/4	.59	.33	.39	.79	.49
6316 08 00WP2	5/16	.71	.57	.41	1.06	.61
6316 60 00WP2	3/8	.87	.57	.49	1.16	.73
6316 62 00WP2	1/2	1.41	.81	.67	1.59	1.00

WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



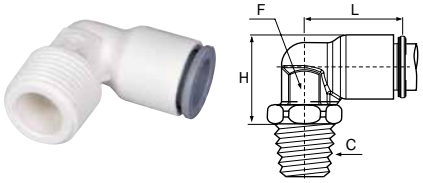
6316 Bulkhead Union Metric Tube

Part No.	Tube Size (mm)	F	K (max)	L1	L2	T (min)
6316 04 00WP2	4	13	5.50	10.50	15.50	10.50
6316 06 00WP2	6	15	8.50	10.00	20.00	12.50
6316 08 00WP2	8	18	14.50	10.50	27.00	15.50



6579 Fixed Elbow Inch Tube to NPTF

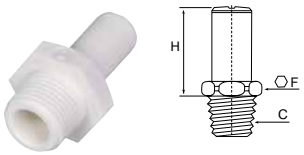
Part No.	Tube Size (in)	C NPTF	F	H	L
6579 56 11WP2	1/4	1/8	3/8	.54	.71
6579 56 14WP2	1/4	1/4	3/8	.54	.71
6579 56 18WP2	1/4	3/8	3/8	.54	.71
6579 60 14WP2	3/8	1/4	1/2	.77	1.02
6579 60 18WP2	3/8	3/8	1/2	.77	1.02



6579 Fixed Elbow Metric Tube to BSPT

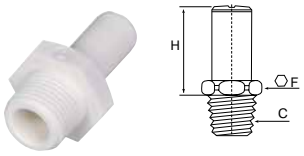
Part No.	Tube Size (mm)	C BSPT	F	H	L
6579 06 10WP2	6	1/8	10	14	19
6579 06 13WP2	6	1/4	10	14	19
6579 06 17WP2	6	3/8	10	14	19

⚠ WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



6521 Stem Adapter Inch Tube to NPTF

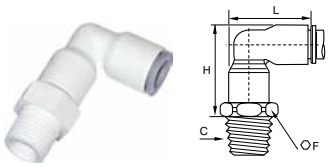
Part No.	Tube Size (in)	C NPTF	F	H
6521 56 11WP2	1/4	1/8	1/2	.75
6521 56 14WP2	1/4	1/4	1/2	.75
6521 56 18WP2	1/4	3/8	3/4	.77
6521 60 14WP2	3/8	1/4	3/4	.98
6521 60 18WP2	3/8	3/8	3/4	.98
6521 62 18WP2	1/2	3/8	15/16	1.22
6521 62 22WP2	1/2	1/2	15/16	1.28



6521 Stem Adapter Metric Tube to BSPT

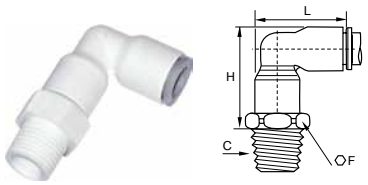
Part No.	Tube Size (mm)	C BSPT	F	H
6521 06 10WP2	6	1/8	13	19
6521 06 13WP2	6	1/4	14	19
6521 06 17WP2	6	3/8	17	19
6521 08 10WP2	8	1/8	19	23
6521 08 13WP2	8	1/4	19	23
6521 08 17WP2	8	3/8	19	23
6521 10 13WP2	10	1/4	19	25
6521 10 17WP2	10	3/8	19	25
6521 10 21WP2	10	1/2	22	25
6521 12 17WP2	12	3/8	22	28
6521 12 21WP2	12	1/2	22	28

WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



6509 Swivel Elbow Inch Tube to NPTF

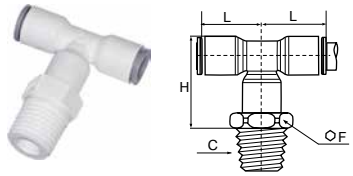
Part No.	Tube Size (in)	C NPTF	F	H	L
6509 56 11WP2	1/4	1/8	1/2	1.10	.93
6509 56 14WP2	1/4	1/4	9/16	1.10	.93
6509 56 18WP2	1/4	3/8	3/4	1.12	.93
6509 60 14WP2	3/8	1/4	3/4	1.50	1.34
6509 60 18WP2	3/8	3/8	3/4	1.50	1.34
6509 62 18WP2	1/2	3/8	15/16	1.99	1.83
6509 62 22WP2	1/2	1/2	15/16	1.99	1.83



6509 Swivel Elbow Metric Tube to BSPT

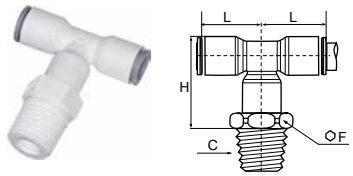
Part No.	Tube Size (mm)	C BSPT	F	H	L
6509 06 10WP2	6	1/8	13	28	24.00
6509 06 13WP2	6	1/4	14	28	24.00
6509 06 17WP2	6	3/8	17	28	24.00
6509 08 10WP2	8	1/8	19	34	29.50
6509 08 13WP2	8	1/4	19	34	29.50
6509 08 17WP2	8	3/8	19	34	29.50
6509 12 17WP2	12	3/8	22	44	40.00
6509 12 21WP2	12	1/2	22	44	40.00

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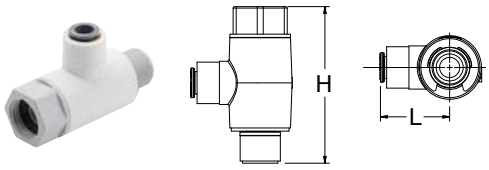
6508 Swivel Branch Tee Inch Tube to NPTF

Part No.	Tube Size (in)	C NPTF	F	H	L
6508 56 11WP2	1/4	1/8	1/2	1.10	.71
6508 56 14WP2	1/4	1/4	9/16	1.10	.71
6508 56 18WP2	1/4	3/8	3/4	1.10	.71
6508 60 14WP2	3/8	1/4	3/4	1.50	1.02
6508 60 18WP2	3/8	3/8	3/4	1.50	1.02
6508 62 18WP2	1/2	3/8	15/16	1.97	1.40
6508 62 22WP2	1/2	1/2	15/16	2.00	1.40



6508 Swivel Branch Tee Metric Tube to BSPT

Part No.	Tube Size (mm)	C BSPT	F	H	L
6508 06 10WP2	6	1/8	13	28.00	18.00
6508 06 13WP2	6	1/4	14	28.00	18.00
6508 06 17WP2	6	3/8	17	28.00	18.00
6508 10 13WP2	10	1/4	19	38.00	26.50
6508 10 21WP2	10	1/2	22	38.00	26.50
6508 12 17WP2	12	3/8	22	44.00	31.00



AS Angle Stop Fitting

Part No.	Tube Size (in)	MaLe Thd..	FemaLe Thd..	UNEF Thd..	H	L
LFPP4AS6	1/4	3/8	3/8	9/16-24	2.17	.96

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6503 Swivel Run Tee Inch Tube to NPTF

Part No.	Tube Size (in)	C NPTF	F	H	H1	L
6503 56 11WP2	1/4	1/8	1/2	1.60	.88	.71
6503 56 14WP2	1/4	1/4	9/16	1.60	.88	.71
6503 56 18WP2	1/4	3/8	3/4	1.63	.90	.71
6503 60 14WP2	3/8	1/4	3/4	1.63	1.18	1.02
6503 60 18WP2	3/8	3/8	3/4	1.63	1.18	1.02
6503 62 18WP2	1/2	3/8	15/16	2.29	1.55	1.40
6503 62 22WP2	1/2	1/2	15/16	2.99	1.59	1.40

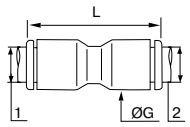


6503 Swivel Run Tee Metric Tube to BSPT

Part No.	Tube Size (mm)	C BSPT	F	H	H1	L
6503 06 13WP2	6	1/4	14	40.00	22.00	18.50
6503 08 10WP2	8	1/8	19	50.00	27.00	23.00
6503 08 13WP2	8	1/4	19	50.00	27.00	23.00
6503 08 17WP2	8	3/8	19	50.00	27.00	23.00
6503 12 17WP2	12	3/8	22	65.50	34.50	31.00
6503 12 21WP2	12	1/2	22	65.50	34.50	31.00

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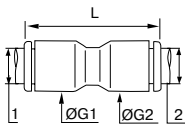




6306 Union Connector Inch Tube

Part No.	Tube 1 Size (in)	Tube 2 Size (in)	G	L
6306 56 00WP2	1/4	1/4	.43	1.18
6306 08 00WP2	5/16	5/16	.53	1.46
6306 60 00WP2	3/8	3/8	.63	1.65
6306 62 00WP2	1/2	1/2	.87	2.24
6306 56 60WP2	1/4	3/8	.63	1.61
6306 56 08WP2	1/4	5/16	.53	1.46
6306 08 60WP2	5/16	3/8	.63	1.65
6306 08 62WP2	5/16	1/2	.87	2.16
6306 60 62WP2	3/8	1/2	.87	2.20

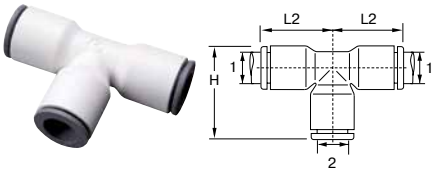




6306 Union Connector Metric Tube

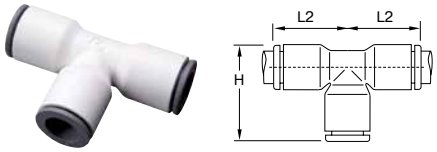
Part No.	Tube 1 Size (mm)	Tube 2 Size (mm)	G1	G2	L
6306 04 00WP2	4	4	8.50	8.50	26.50
6306 06 00WP2	6	6	10.50	10.50	30.00
6306 08 00WP2	8	8	13.50	13.50	37.00
6306 10 00WP2	10	10	16.00	16.00	42.00
6306 12 00WP2	12	12	19.00	19.00	50.50
6306 04 06WP2	4	6	8.50	10.50	29.00
6306 04 08WP2	4	8	13.50	13.50	37.00
6306 06 08WP2	6	8	13.50	13.50	37.00
6306 06 10WP2	6	10	16.00	16.00	42.00
6306 08 10WP2	8	10	16.00	16.00	42.00
6306 08 12WP2	8	12	19.00	19.00	50.00
6306 10 12WP2	10	12	19.00	19.00	50.00

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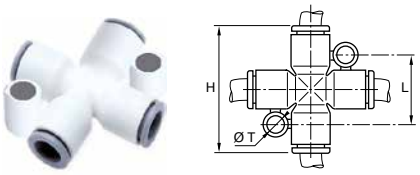
6304 Union Tee Inch Tube

Part No.	Tube 1 Size (in)	Tube 2 Size (in)	H	L2
6304 04 00WP2	5/32	5/32	.79	.61
6304 56 00WP2	1/4	1/4	.94	.71
6304 08 00WP2	5/16	5/16	1.14	.89
6304 60 00WP2	3/8	3/8	1.34	1.02
6304 62 00WP2	1/2	1/2	1.85	1.42
6304 60 56WP2	3/8	1/4	1.34	1.02
6304 62 60WP2	1/2	3/8	1.85	1.42



6304 Union Tee Metric Tube

Part No.	Tube Size (mm)	H	L2
6304 04 00WP2	4	20.00	15.50
6304 06 00WP2	6	23.00	18.00
6304 08 00WP2	8	29.00	22.50
6304 10 00WP2	10	34.50	26.50
6304 12 00WP2	12	40.00	31.00

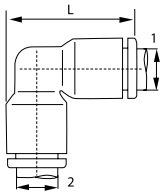


6307 Cross Metric

Part Number	Tube Size (mm)	H	L	t
6307 06 00WP2	6	46	22.5	4.2
6307 08 00WP2	8	46	22.5	4.2

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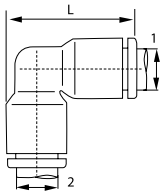




6302 Union Elbow Inch Tube

Part No.	Tube 1 Size (in)	Tube 2 Size (in)	L
6302 04 00WP2	5/32	5/32	.75
6302 56 00WP2	1/4	1/4	.94
6302 08 00WP2	5/16	5/16	1.16
6302 60 00WP2	3/8	3/8	1.34
6302 62 00WP2	1/2	1/2	1.83
6302 56 08WP2	1/4	5/16	1.16
6302 08 60WP2	5/16	3/8	1.34
6302 56 60WP2	3/8	1/4	1.30
6302 60 62WP2	3/8	1/2	1.83

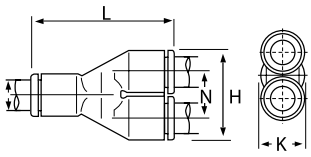




6302 Union Elbow Metric Tube

Part No.	Tube 1 Size (mm)	Tube 2 Size (mm)	L
6302 04 00WP2	4	4	19.50
6302 06 00WP2	6	6	24.00
6302 08 00WP2	8	8	29.50
6302 10 00WP2	10	10	34.50
6302 12 00WP2	12	12	40.50
6302 04 06WP2	4	6	24.00
6302 06 08WP2	6	8	29.50
6302 08 10WP2	8	10	34.50
6302 10 12WP2	10	12	40.50

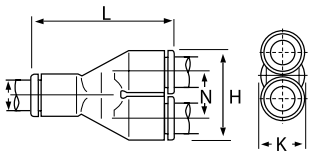




6340 Union Y Connector Inch Tube

Part No.	Tube Size (in)	H	K	L	N
6340 04 00WP2	5/32	.69	.33	1.18	.35
6340 56 00WP2	1/4	.87	.43	1.42	.45
6340 08 00WP2	5/16	1.10	.53	1.75	.57
6340 60 00WP2	3/8	1.30	.63	2.08	.67
6340 62 00WP2	1/2	1.77	.87	2.64	.91

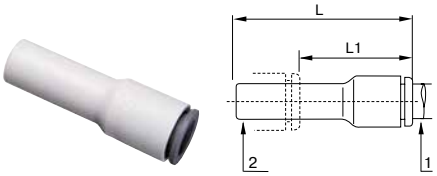




6340 Union Y Connector Metric Tube

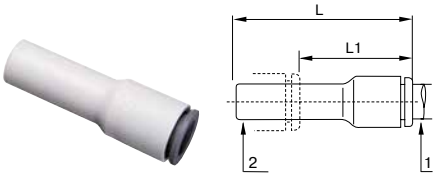
Part No.	Tube Size (mm)	H	K	L	N
6340 04 00WP2	4	17.50	8.50	30.00	9.00
6340 06 00WP2	6	21.50	10.50	36.50	11.00
6340 08 00WP2	8	28.00	13.50	44.50	14.50
6340 10 00WP2	10	33.00	16.00	53.00	17.00
6340 12 00WP2	12	39.00	19.00	60.50	20.00

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6366 Reducer Inch Tube to Stem

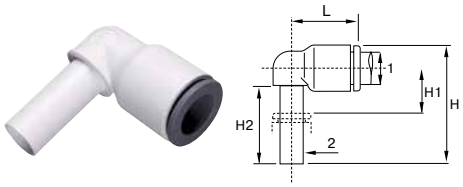
Part No.	Tube 1 Size (in)	Tube 2 Size (in)	L	L1
6366 56 08WP2	1/4	5/16	1.61	.89
6366 56 60WP2	1/4	3/8	1.61	.81
6366 08 60WP2	5/16	3/8	1.91	1.14
6366 08 62WP2	5/16	1/2	1.91	.87
6366 60 62WP2	3/8	1/2	2.01	1.18



6366 Reducer Metric Tube to Stem

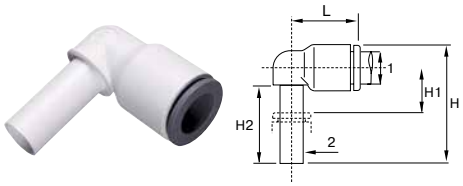
Part No.	Tube 1 Size (mm)	Tube 2 Size (mm)	L	L1
6366 04 06WP2	4	6	38.00	23.50
6366 04 08WP2	4	8	38.00	19.00
6366 06 08WP2	6	8	38.00	20.00
6366 06 10WP2	6	10	39.00	17.50
6366 08 10WP2	8	10	48.50	28.50
6366 08 12WP2	8	12	48.50	24.50
6366 10 12WP2	10	12	52.00	33.50
6366 10 14WP2	10	14	53.00	33.50
6366 12 14WP2	12	14	55.50	33.50

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6382 Plug-In Elbow Inch Tube to Stem

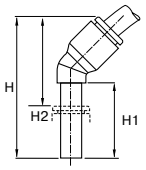
Part No.	Tube 1 Size (in)	Tube 2 Size (in)	H	H1	H2	L
6382 56 00WP2	1/4	1/4	1.20	.43	.71	.71
6382 08 00WP2	5/16	5/16	1.32	.31	.85	.88
6382 60 00WP2	3/8	3/8	1.53	.35	.96	1.04
6382 56 60WP2	1/4	3/8	1.93	.51	1.12	1.42
6382 60 56WP2	3/8	1/4	1.26	.43	.71	1.04



6382 Plug-In Elbow Metric Tube to Stem

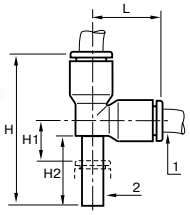
Part No.	Tube 1 Size (mm)	Tube 2 Size (mm)	H	H1	H2	L
6382 04 00WP2	4	4	23.00	6.00	15.50	15.00
6382 06 00WP2	6	6	26.50	7.00	17.00	17.00
6382 08 00WP2	8	8	33.00	8.00	21.50	22.50
6382 10 00WP2	10	10	39.00	9.50	24.50	26.50
6382 12 00WP2	12	12	44.50	10.00	27.00	31.00
6382 04 06WP2	4	6	26.50	7.00	17.00	16.50
6382 06 04WP2	6	4	25.00	7.00	15.50	17.00
6382 06 08WP2	6	8	33.50	8.00	21.50	22.50

WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

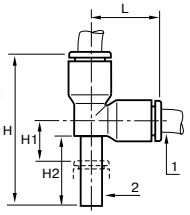
6380 Plug-in 45° Elbow Metric

Part Number	Tube Size (mm)	Stem Size (mm)	H	H1	H2
6380 04 00WP2	4	4	33.5	19.0	13.0
6380 06 00WP2	6	6	39.0	21.0	14.5
6380 08 00WP2	8	8	44.0	21.5	19.5
6380 10 00WP2	10	10	53.0	27.0	23.0
6380 12 00WP2	12	12	58.5	27.5	26.5

6383 Plug-In Run Tee Inch Tube to Stem

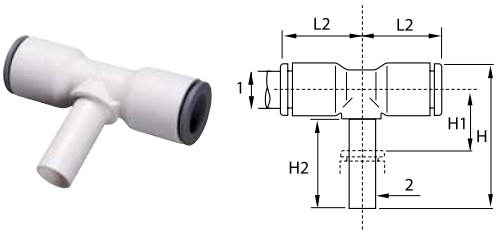
Part No.	Tube 1 Size (in)	Tube 2 Size (in)	H	H1	H2	L
6383 56 00WP2	1/4	1/4	1.20	.43	.71	.71
6383 60 00WP2	3/8	3/8	2.24	.43	.96	1.04
6383 62 00WP2	1/2	1/2	1.93	.71	1.12	1.42

6383 Plug-In Run Tee Metric Tube to Stem

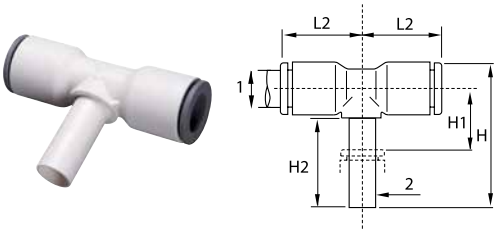
Part No.	Tube 1 Size (mm)	Tube 2 Size (mm)	H	H1	H2	L
6383 04 00WP2	4	4	33.00	6.00	15.50	15.00
6383 06 00WP2	6	6	38.50	7.00	17.00	18.00
6383 08 00WP2	8	8	49.00	8.00	21.50	23.00
6383 10 00WP2	10	10	57.00	10.50	25.50	26.50

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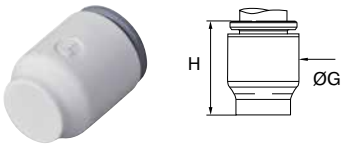
6388 Plug-In Tee Inch Tube to Stem

Part No.	Tube 1 Size (in)	Tube 2 Size (in)	H	H1	H2	L2
6388 56 00WP2	1/4	1/4	1.20	.43	.79	.71
6388 08 00WP2	5/16	5/16	1.32	.31	.85	.90
6388 60 00WP2	3/8	3/8	1.65	.49	.98	.98
6388 62 00WP2	1/2	1/2	2.01	.51	1.14	1.26



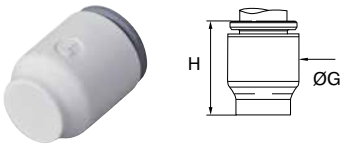
6388 Plug-In Tee Metric Tube to Stem

Part No.	Tube 1 Size (mm)	Tube 2 Size (mm)	H	H1	H2	L2
6388 04 00WP2	4	4	25.00	6.00	15.50	15.00
6388 06 00WP2	6	6	28.50	7.00	17.00	16.00
6388 08 00WP2	8	8	33.50	8.00	21.50	23.00
6388 10 00WP2	10	10	41.00	9.50	24.50	26.50



6351 End Stop Inch Tube

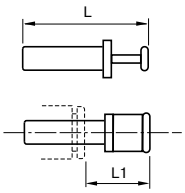
Part No.	Tube Size (in)	G	H
6351 04 00WP2	5/32	.33	.59
6351 56 00WP2	1/4	.43	.63
6351 08 00WP2	5/16	.53	.85
6351 60 00WP2	3/8	.63	.88



6351 End Stop Metric Tube

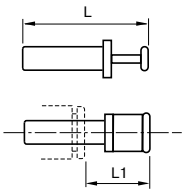
Part No.	Tube Size (mm)	G	H
6351 04 00WP2	4	8.50	15.00
6351 06 00WP2	6	10.50	17.00
6351 08 00WP2	8	13.50	21.50
6351 10 00WP2	10	16.00	22.00

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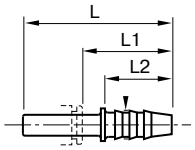
6326 Plug Inch

Part Number	Stem Size (in)	L	L1
6326 56 00WP2	1/4	1.44	.87
6326 08 00WP2	5/16	1.38	.69
6326 60 00WP2	3/8	1.67	.87
6326 62 00WP2	1/2	1.91	.85

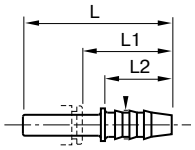
6326 Plug Metric

Part Number	Stem Size (mm)	L	L1
6326 04 00WP2	4	30	15.5
6326 06 00WP2	6	33	16.5
6326 08 00WP2	8	33	17.5

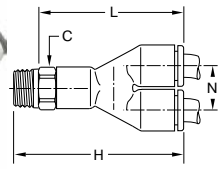
6322 Stem to Hose Barb Inch

Part Number	Stem Size (in)	Hose Barb	L	L1	L2
6322 56 56WP2	1/4	1/4	1.65	1.00	.67
6322 60 56WP2	3/8	1/4	1.97	1.16	.87
6322 60 08WP2	3/8	5/16	1.97	1.16	.87
6322 60 60WP2	3/8	3/8	1.97	1.16	.87
6322 62 60WP2	1/2	3/8	2.05	1.30	1.07

6322 Stem to Hose Barb Metric

Part Number	Stem Size (mm)	Hose Barb	L	L1	L2
6322 06 04WP2	6	4	37.0	25.0	17
6322 08 06WP2	8	6	39.5	21.0	17
6322 10 07WP2	10	7	50.0	29.5	22

6548 Swivel Y Connector Inch Tube to NPTF

Part Number	Tube Size (in)	NPTF	C Hex	L	H	N
6548 56 11WP2	1/4	1/8	1/2	1.59	.88	.45
6548 56 14WP2	1/4	1/4	1/2	1.59	.88	.45
6548 56 18WP2	1/4	3/8	3/4	1.62	.88	.45
6548 60 14WP2	3/8	1/4	3/4	2.24	1.30	.66
6548 60 18WP2	3/8	3/8	3/4	2.24	1.30	.66
6548 62 18WP2	1/2	3/8	15/16	2.80	1.78	.91
6548 62 22WP2	1/2	1/2	15/16	2.84	1.78	.91

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LIQUIfit Polypropylene Ball Valves

This range of valves offers an innovative solution in the treatment of water and the handling of beverages while protecting health. LIQUIfit's corrosion-resistant, all plastic design makes them ideal for water filtration units, coffee and beverage machines and a wide variety of other fluid applications. The polypropylene material meets all FDA and NSF-51 requirements for food contact.

Features/Benefits:

- Full-flow self-cleaning ball maintains the cleanliness of the circuit
- Sealing technology using EPDM seal
- High temperature, scale-resistant Polysulfone ball
- Tube retention with gripping ring prevents pumping effect
- Push-in connection and disconnection
- FDA compliant

Specifications:

- Temperature range: +35° F to +200° F (+1° C to +93° C)
- O-ring seal material: EPDM
- NSF/ANSI 51 and NSF/ANSI/CAN 61
- Pressure rated to 150 psi

Advantages:

- Reduce costs – Built-in LIQUIfit connection eliminates the need for a secondary fitting
- Save space – Low profile design allows for easy assembly and access where space is at a premium.

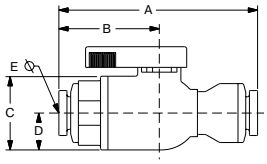
Assembly Instructions:

1. Inspect the mating threads for debris or damage. Remove any old fluoropolymer tape or sealant on previously used threads. If threads are damaged, replace with new adapter before proceeding.
2. Apply 2 to 3 wraps of fluoropolymer tape, or an NSF/FDA approved silicone sealant. Do not use Plumbers Putty or Pipe Dope. These chemically react with plastic materials and could cause a failure.
3. Align ball valve onto mating thread to ensure cross threading does not occur.
4. Screw ball valve onto mating thread 3 to 5 turns. This should be sufficient to properly seal the threads.
5. Pressurize system and check for leaks.

NOTE: PPL refers to Polypropylene. FCB refers to Fluorocarbon.

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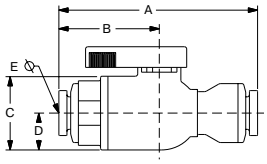




VUC - Valve Union Connector

Part No.	1 Tube Size	2 Tube Size	A	B	C	D	ØE Thru Hole Min.
LFPP4VUC4	1/4	1/4	2.23	1.07	1.00	.50	.19
LFPP4VUC6	1/4	3/8	2.50	1.07	1.00	.50	.19
LFPP6VUC6	3/8	3/8	2.74	1.32	1.00	.50	.25
LFPP8VUC8	1/2	1/2	3.50	1.74	1.04	.52	.37

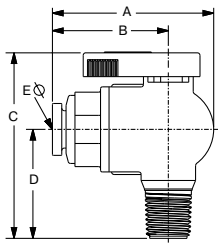




VUC - Valve Union Connector Metric

Part No.	1 Tube Size	2 Tube Size	A	B	C	D	ØE Thru Hole Min.
LFPP6MVUC6M	6	6	2.24	.27	.36	.13	.19
LFPP8MVUC8M	8	8	2.35	.27	.36	.13	.25
LFPP10MVUC10M	10	10	2.73	.33	.36	.13	.33
LFPP12MVUC12M	12	12	3.46	.43	.36	.13	.37



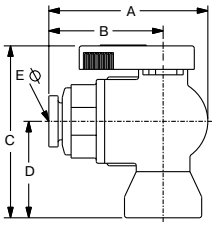


VME - Valve Male Elbow

Part No.	Nom. Tube O.D.	NPTF Thread Size	A	B	C	D	ØE Thru Hole Min.
LFPP4VME2	1/4	1/8	1.74	1.21	2.00	1.10	.19
LFPP4VME4	1/4	1/4	1.74	1.21	2.18	1.28	.19
LFPP4VME6	1/4	3/8	1.74	1.21	2.18	1.28	.19
LFPP4VME8	1/4	1/2	1.74	1.21	2.37	1.47	.19
LFPP6VME2	3/8	1/8	1.85	1.32	2.00	1.10	.25
LFPP6VME4	3/8	1/4	1.85	1.32	2.18	1.28	.25
LFPP6VME6	3/8	3/8	1.85	1.32	2.18	1.28	.25
LFPP6VME8	3/8	1/2	1.85	1.32	2.37	1.47	.25
LFPP8VME8	1/2	1/2	2.73	1.74	2.38	1.47	.37

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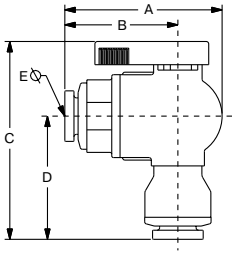




VFE - Valve Female Elbow

Part No.	Nom. Tube O.D.	NPTF Thread Size	A	B	C	D	ØE Thru Hole Min.
LFPP4VFE2	1/4	1/8	1.74	1.21	1.82	.92	.19
LFPP4VFE4	1/4	1/4	1.74	1.21	2.05	1.15	.19
LFPP4VFE6	1/4	3/8	1.74	1.21	2.18	1.28	.19
LFPP6VFE2	3/8	1/8	1.85	1.32	1.82	.92	.25
LFPP6VFE4	3/8	1/4	1.85	1.32	2.05	1.15	.25
LFPP6VFE6	3/8	3/8	1.85	1.32	2.18	1.28	.25

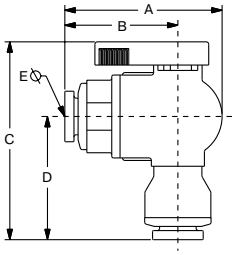




VEU - Valve Elbow Union

Part No.	1 Tube Size	2 Tube Size	A	B	C	D	ØE Thru Hole Min.
LFPP4VEU4	1/4	1/4	1.75	1.22	2.33	1.42	.19
LFPP4VEU6	1/4	3/8	1.75	1.22	2.33	1.42	.19
LFPP6VEU4	3/8	1/4	1.83	1.30	2.32	1.40	.19
LFPP6VEU6	3/8	3/8	1.85	1.32	2.34	1.44	.25



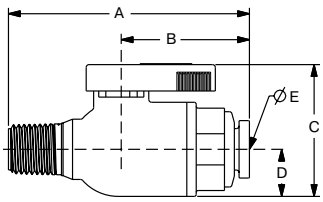


VEU - Valve Elbow Union Metric

Part No.	1 Tube Size	2 Tube Size	A	B	C	D	ØE Thru Hole Min.
LFPP6MVEU6M	6	6	.41	.27	.55	.31	.19
LFPP8MVEU8M	8	8	.41	.28	.56	.33	.25
LFPP10MVEU10M	10	10	.48	.33	.61	.38	.33

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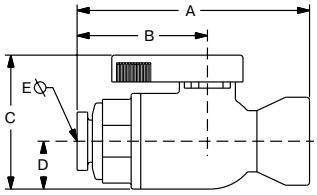




VMC - Valve Male Connector

Part No.	Nom. Tube O.D.	NPTF Thread Size	A	B	C	D	ØE Thru Hole Min.
LFPP4VMC2	1/4	1/8	2.22	1.21	1.40	.50	.19
LFPP4VMC4	1/4	1/4	2.40	1.21	1.40	.50	.19
LFPP4VMC6	1/4	3/8	2.40	1.21	1.40	.50	.19
LFPP4VMC8	1/4	1/2	2.59	1.21	1.40	.50	.19
LFPP6VMC2	3/8	1/8	2.33	1.32	1.40	.50	.25
LFPP6VMC4	3/8	1/4	2.51	1.32	1.40	.50	.25
LFPP6VMC6	3/8	3/8	2.51	1.32	1.40	.50	.25
LFPP6VMC8	3/8	1/2	2.70	1.32	1.40	.50	.25
LFPP8VMC8	1/2	1/2	3.14	1.74	1.40	.50	.37

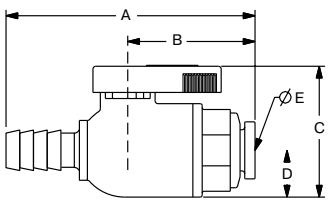




VFC - Valve Female Connector

Part No.	Nom. Tube O.D.	NPTF Thread Size	A	B	C	D	ØE Thru Hole Min.
LFPP4VFC2	1/4	1/8	2.04	1.21	1.40	.50	.19
LFPP4VFC4	1/4	1/4	2.27	1.21	1.40	.50	.19
LFPP4VFC6	1/4	3/8	2.40	1.21	1.40	.50	.19
LFPP6VFC2	3/8	1/8	2.15	1.32	1.40	.50	.25
LFPP6VFC4	3/8	1/4	2.38	1.32	1.40	.50	.25
LFPP6VFC6	3/8	3/8	2.51	1.32	1.40	.50	.25



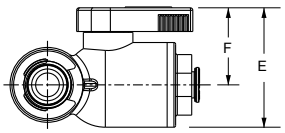


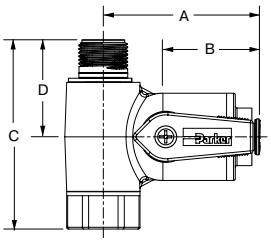
VUCPB - Valve Union Connector Barbed x Tube

Part No.	Hose ID	Tube OD	OD	A	B	C	D	ØE Thru Hole Min.
LFPP4VUCPB4	1/4	1/4	.31	2.40	1.08	1.42	.50	.15
LFPP6VUCPB6	3/8	3/8	.43	2.63	1.32	1.42	.50	.19

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VAS - Valve Angle Stop

Part No.	Tube OD	Male Thd.	Female Thd.	A	B	C	D	E	F
LFPP4VAS6	1/4	3/8	3/8	1.79	1.11	2.17	1.11	1.40	.90
LFPP4VAS8	1/4	3/8	1/2	1.79	1.11	2.40	1.11	1.40	.90
LFPP6VAS6	3/8	3/8	3/8	2.03	1.35	2.17	1.11	1.40	.90
LFPP6VAS8	3/8	3/8	1/2	2.03	1.35	2.40	1.11	1.40	.90

Do not use thread sealant. Do not over tighten.

VAS Assembly Instructions:

1. Shut off water supply at brass/ chrome supply valve.

   Disconnect riser from brass/chrome supply valve.

   Ensure that the sealing gasket is fully seated into the Angle Stop Valve female thread.



2. Install Angle Stop Adapter Valve on supply valve.

   Connect the riser to the Angle Stop Adapter Valve.



3. Fully insert tubing into the side of the valve.

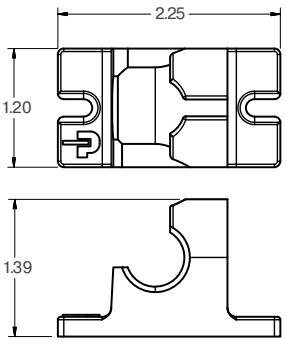
   Open valves and check for leaks.



BVC Ball Valve Clip

BV-Clip Shown below holding VUCPB and VME







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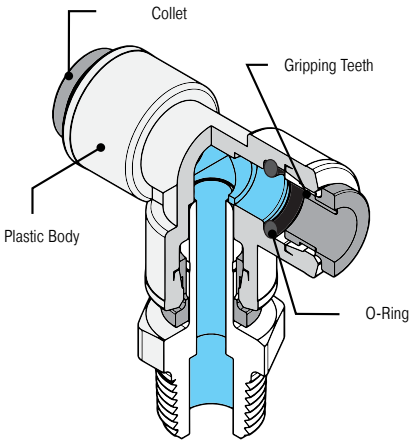


TRUESEAL™ FITTINGS

Parker's TrueSeal Fittings are lightweight, field attachable and connect to tubing without the use of tools. These all plastic push-to-connect fittings are manufactured from FDA compliant materials.

Product Features:

- Acetal and Black Polypropylene (EPDM seals and metal gripping collet standard)
- White Polypropylen (EPDM seals and plastic gripping collet standard)
- Black Kynar (Fluorocarbon (FKM) seals and black kynar metal gripping collet standard)
- Gripping ring with stainless steel bite edge or with an engineered thermoplastic bite edge
- FDA compliant, NSF/ANSI 51
- Gray acetal and Black Polyproylene NSF/ANSI/CAN 61



Markets:

- Food
- Potable Water
- Chemical
- Filtration

Applications:

- Air
- Water
- Soft Drinks
- Beer
- Wine
- Dyes
- Vacuum

Compatible Tubing:

- Polyethylene
- Polypropylene**
- Nylon**
- Vinyl+
- Fluoropolymer**
- Polyurethane+
- *Kynar®

Specifications:

Pressure Range

Acetal and Kynar:	1/4", 5/16", 3/8" Vacuum to 300 PSI (20.7 bar) 1/2" Vacuum to 250 PSI (17.2 bar)
Polypropylene:	1/4", 3/8", 1/2" Vacuum to 150 PSI (10.3 bar)

*Vacuum rating to 28 inches of Hg at room temperature

Temperature Range

Acetal:	-20° to +180° F (-28.9° to +82.2° C)
Polypropylene:	0° to +225° F (-17.8° to +107.2° C)
Kynar:	0° to +275° F (-17.8° to +135° C)

* Registered trademark of The Arkema Group.
** Metal gripper required (-MG & -HBLK suffix)
+ Tube Support required.

⚠ WARNING These products can expose you to chemicals including CARBON BLACK, which is known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

TRUESEAL™ FITTINGS

Assembly Instructions

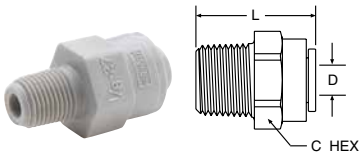
1. Cut tubing square and clean.
   (Use a Parker plastic tube cutter, Part No. PTC.)
2. Mark from end of tube length of insertion (see table below).
3. Push tube into the fitting until it bottoms out.
4. To remove, depress collet and pull tubing out.

For Threaded Connections:

1. Inspect the mating threads for debris or damage. Remove any old fluoropolymer tape or sealant on previously used threads. If threads are damaged, replace with new adapter before proceeding.
2. Apply 1 to 2 wraps of Teflon tape to the male pipe threads, or an NSF/FDA approved silicon sealant. Do not use plumbers putty or pipe dope. These chemically react with plastic materials and could cause a failure.
3. Screw together until finger tight (approximately three turns)
4. To ensure seal continue 1 to 2 more turns past finger tight.
5. Total number of turns from start to finish need not exceed 5 turns.

Tube Size	O.D. Tolerance	Insertion Depth
1/4	±.005	11/16
5/16	±.005	13/16
3/8	±.005	3/4
1/2	±.005	7/8

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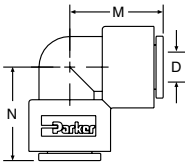


MC - Male Connector Tube-to-Pipe

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom Tube O.D.	NPTF Thd Size	C Hex	L Overall Length	Flow Dia. D
A4MC2-MG	PPB4MC2-MG	PP4MC2	FB4MC2-HBLK	1/4	1/8	11/16	1.28	.175
A4MC4-MG	PPB4MC4-MG	PP4MC4	FB4MC4-HBLK	1/4	1/4	11/16	1.14	.175
A4MC6-MG	PPB4MC6-MG	PP4MC6	FB4MC6-HBLK	1/4	3/8	11/16	1.18	.175
A5MC2-MG			FB5MC2-HBLK	5/16	1/8	13/16	1.46	.175
A5MC4-MG			FB5MC4-HBLK	5/16	1/4	13/16	1.41	.188
A5MC6-MG			FB5MC6-HBLK	5/16	3/8	13/16	1.27	.188
A6MC2-MG		PP6MC2	FB6MC2-HBLK	3/8	1/8	13/16	1.46	.175
A6MC4-MG	PPB6MC4-MG	PP6MC4	FB6MC4-HBLK	3/8	1/4	13/16	1.41	.250
A6MC6-MG	PPB6MC6-MG	PP6MC6	FB6MC6-HBLK	3/8	3/8	13/16	1.27	.250
A6MC8-MG			FB6MC8-HBLK	3/8	1/2	15/16	1.45	.250
A8MC6-MG	PPB8MC6-MG	PP8MC6	FB8MC6-HBLK	1/2	3/8	15/16	1.65	.360
A8MC8-MG	PPB8MC8-MG	PP8MC8	FB8MC8-HBLK	1/2	1/2	15/16	1.46	.375

For nonstandard plastic collet, remove -MG suffix.





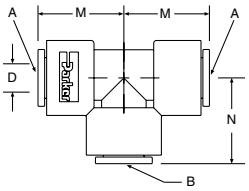
EU - Elbow Union Tube-to-Tube

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	M	N	Flow Dia. D
A4EU4-MG	PPB4EU4-MG	PP4EU4	FB4EU4-HBLK	1/4	.87	.87	.175
A5EU4-MG				5/16-1/4	1.052	.90	.175
A5EU5-MG			FB5EU5-HBLK	5/16	1.02	1.02	.188
A6EU4-MG	PPB6EU4-MG	PP6EU4	FB6EU4-HBLK	3/8-1/4	1.02	.90	.212
A6EU5-MG				3/8-5/16	1.02	1.02	.175
A6EU6-MG	PPB6EU6-MG	PP6EU6	FB6EU6-HBLK	3/8	1.02	1.02	.250
A8EU6-MG	PPB8EU6-MG			1/2-3/8	1.20	1.20	.250
A8EU8-MG	PPB8EU8-MG	PP8EU8	FB8EU8-HBLK	1/2	1.20	1.20	.375

For nonstandard plastic collet, remove -MG suffix.

⚠ WARNING These products can expose you to chemicals including CARBON BLACK, which is known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



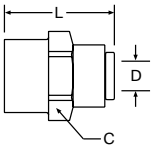


TU - Tee Union Tube-to-Tube

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.		M	N	Flow Dia. D
				Tube A Run	Tube B Stem			
A4TU4-MG	PPB4TU4-MG	PP4TU4	FB4TU4-HBLK	1/4	1/4	.81	.85	.175
A5TU5-MG			FB5TU5-HBLK	5/16	5/16	1.02	1.02	.188
A6TU4-MG	PPB6TU4-MG	PP6TU4	FB6TU4-HBLK	3/8	1/4	1.02	1.03	.175
A6TU6-MG	PPB6TU6-MG	PP6TU6	FB6TU6-HBLK	3/8	3/8	1.02	1.02	.290
A8TU8-MG	PPB8TU8-MG	PP8TU8	FB8TU8-HBLK	1/2	1/2	1.20	1.20	.375

For nonstandard plastic collet, remove -MG suffix.



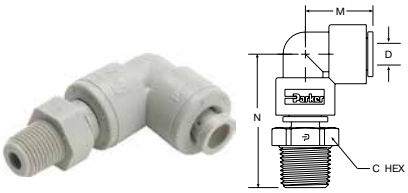


FA - Faucet Adapter Tube-to-Faucet

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	UNS-2B Thd Size	C Hex	L Overall Length	Flow Dia. D
A4FA7-MG	PPB4FA7-MG	PP4FA7	FB4FA7-HBLK	1/4	7/16-24	23/32	1.32	.190
A5FA7-MG				5/16	7/16-24	13/16	1.41	.190
A6FA7-MG	PPB6FA7-MG	PP6FA7	FB6FA7-HBLK	3/8	7/16-24	13/16	1.41	.190

For nonstandard plastic collet, remove -MG suffix.

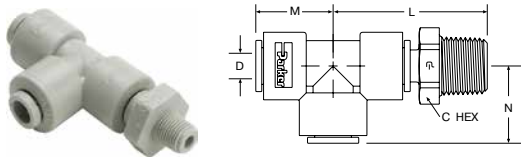
⚠ WARNING These products can expose you to chemicals including CARBON BLACK, which is known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



MES - Male Elbow Swivel Tube-to-Pipe

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	NPTF Thd Size	C Hex	M	N	Flow Dia. D
A4MES2-MG	PPB4MES2-MG	PP4MES2	FB4MES2-HBLK	1/4	1/8	9/16	.87	1.60	.175
A4MES4-MG	PPB4MES4-MG	PP4MES4	FB4MES4-HBLK	1/4	1/4	11/16	.87	1.71	.175
A4MES6-MG		PP4MES6	FB4MES6-HBLK	1/4	3/8	13/16	.90	1.91	.212
A5MES2-MG				5/16	1/8	9/16	1.02	1.78	.188
A5MES4-MG				5/16	1/4	11/16	1.02	1.90	.188
A5MES6-MG				5/16	3/8	13/16	1.02	1.90	.188
A6MES2-MG			FB6MES2-HBLK	3/8	1/8	9/16	1.02	1.65	.175
A6MES4-MG	PPB6MES4-MG	PP6MES4	FB6MES4-HBLK	3/8	1/4	13/16	1.02	1.90	.250
A6MES6-MG	PPB6MES6-MG	PP6MES6	FB6MES6-HBLK	3/8	3/8	13/16	1.02	1.90	.250
A8MES4-MG				1/2	1/4	13/16	1.20	2.10	.240
A8MES6-MG		PP8MES6		1/2	3/8	13/16	1.20	2.10	.375
A8MES8-MG		PP8MES8		1/2	1/2	1	1.20	2.32	.375

* Part consists of elbow union and tube stem adaptor.
Note: Assemblies with metal gripper collets are permanent. Assemblies with plastic collets can be taken apart.



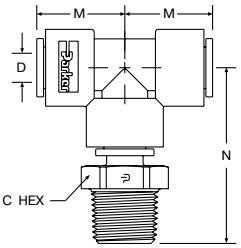
MRS - Male Run Tee Swivel Tube-to-Pipe

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	NPTF Thd Size	C Hex	L	M	N	D Thru Hole Min.
A4MRS2-MG	PPB4MRS2	PP4MRS2	FB4MRS2-HBLK	1/4	1/8	9/16	1.55	.81	0.85	.175
A4MRS4-MG	PPB4MRS4-MG	PP4MRS4	FB4MRS4-HBLK	1/4	1/4	11/16	1.67	.81	0.85	.175
A5MRS2-MG				5/16	1/8	9/16	1.78	1.02	1.02	.188
A5MRS4-MG				5/16	1/4	11/16	1.90	1.02	1.02	.188
A5MRS6-MG				5/16	3/8	13/16	1.90	1.02	1.02	.188
A6MRS4-MG	PPB6MRS4-MG	PP6MRS4	FB6MRS4-HBLK	3/8	1/4	13/16	1.90	1.02	1.02	.250
A6MRS6-MG	PPB6MRS6-MG	PP6MRS6	FB6MRS6-HBLK	3/8	3/8	13/16	1.90	1.02	1.02	.250
A8MRS4-MG				1/2	1/4	13/16	2.10	1.20	1.20	.240
A8MRS6-MG		PP8MRS6		1/2	3/8	13/16	2.10	1.20	1.20	.375
A8MRS8-MG		PP8MRS8		1/2	1/2	1	2.32	1.20	1.20	.375

*Part consists of tee union and tube stem adaptor.
Note: Assemblies with metal gripper collets are permanent. Assemblies with plastic collets can be taken apart.

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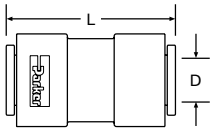


MTS - Male Tee Swivel Tube-to-Pipe

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	NPTF Thd Size	C Hex	M	N	Flow Dia. D
A4MTS2-MG	PPB4MTS2	PP4MTS2	FB4MTS2-HBLK	1/4	1/8	9/16	.81	1.60	.175
A4MTS4-MG	PPB4MTS4-MG	PP4MTS4	FB4MTS4-HBLK	1/4	1/4	11/16	.81	1.71	.175
A5MTS2-MG				5/16	1/8	9/16	1.02	1.78	.188
A5MTS4-MG				5/16	1/4	11/16	1.02	1.90	.188
A5MTS6-MG				5/16	3/8	13/16	1.02	1.90	.188
A6MTS2-MG			FB6MTS2-HBLK	3/8	1/8	9/16	1.02	1.75	.175
A6MTS4-MG	PPB6MTS4-MG	PP6MTS4	FB6MTS4-HBLK	3/8	1/4	13/16	1.02	1.90	.250
A6MTS6-MG	PPB6MTS6-MG	PP6MTS6	FB6MTS6-HBLK	3/8	3/8	13/16	1.02	1.90	.250
A8MTS4-MG				1/2	1/4	13/16	1.20	2.10	.240
A8MTS6-MG		PP8MTS6		1/2	3/8	13/16	1.20	2.10	.375
A8MTS8-MG		PP8MTS8		1/2	1/2	1	1.20	2.32	.375

* Part consists of tee union and tube stem adaptor.
Note: Assemblies with metal gripper collets are permanent. Assemblies with plastic collets can be taken apart.





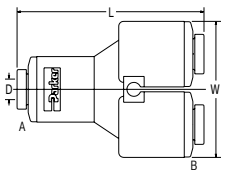
UC - Union Connector Tube-to-Tube

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	L Overall Length	Flow Dia. D
A4UC4-MG	PPB4UC4-MG	PP4UC4	FB4UC4-HBLK	1/4	1.49	.175
A5UC4-MG				5/16-1/4	1.70	.175
A5UC5-MG			FB5UC5-HBLK	5/16	1.70	.188
A6UC4-MG	PPB6UC4-MG	PP6UC4	FB6UC4-HBLK	3/8-1/4	1.70	.175
A6UC5-MG				3/8-5/16	1.70	.188
A6UC6-MG	PPB6UC6-MG	PP6UC6	FB6UC6-HBLK	3/8	1.70	.250
A8UC5-MG				1/2-5/16	1.90	.188
A8UC6-MG	PPB8UC6-MG	PP8UC6	FB8UC6-HBLK	1/2-3/8	1.90	.250
A8UC8-MG	PPB8UC8-MG	PP8UC8	FB8UC8-HBLK	1/2	1.91	.375

For nonstandard plastic collet, remove -MG suffix.

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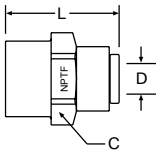




WY - "Y" Union Tube-to-Tube

Gray Acetal EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.		L	W	Flow Dia. D
		Inlet Tube A Run	Outlet Tube B Stem			
	FB4WY4-HBLK	1/4	1/4	2.100	1.43	.190
A5WY5-MG	FB5WY5-HBLK	5/16	5/16	2.250	1.75	.190
A6WY4-MG	FB6WY4-HBLK	3/8	1/4	2.100	1.43	.190
A6WY5-MG		3/8	5/16	2.200	1.75	.190
A6WY6-MG	FB6WY6-HBLK	3/8	3/8	2.175	1.75	.250
	FB8WY6-HBLK	1/2	3/8	2.370	1.93	.250
	FB8WY8-HBLK	1/2	1/2	2.370	1.93	.380





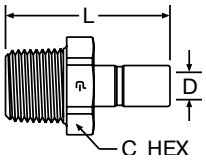
FC - Female Connector Tube-to-Pipe

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	NPTF Thd Size	C Hex	L Overall Length	Flow Dia. D
A4FC2-MG	PPB4FC2-MG	PP4FC2	FB4FC2-HBLK	1/4	1/8	11/16	1.20	.175
A4FC4-MG	PPB4FC4-MG	PP4FC4	FB4FC4-HBLK	1/4	1/4	23/32	1.32	.175
A5FC4-MG			FB5FC4-HBLK	5/16	1/4	13/16	1.41	.188
A5FC6-MG				5/16	3/8	1	1.50	.188
A6FC4-MG	PPB6FC4-MG	PP6FC4	FB6FC4-HBLK	3/8	1/4	13/16	1.41	.250
A6FC6-MG	PPB6FC6-MG	PP6FC6	FB6FC6-HBLK	3/8	3/8	1	1.50	.250
A6FC8-MG			FB6FC8-HBLK	3/8	1/2	1-1/8	1.52	.250
A8FC6-MG		PP8FC6	FB8FC6-HBLK	1/2	3/8	1-1/8	1.60	.375
A8FC8-MG		PP8FC8	FB8FC8-HBLK	1/2	1/2	1-1/8	1.75	.375

For nonstandard plastic collet, remove -MG suffix.

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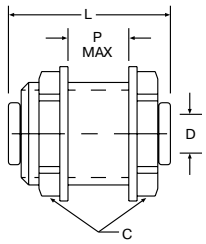




TMC - Tube Stem Adapter Tube Stem-to-Pipe

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	NPTF Thd Size	C Hex	L Overall Length	Flow Dia. D
A4TMC2	PPB4TMC2	PP4TMC2	FB4TMC2	1/4	1/8	9/16	1.44	.175
A4TMC4	PPB4TMC4	PP4TMC4	FB4TMC4	1/4	1/4	11/16	1.56	.175
A5TMC2				5/16	1/8	9/16	1.5	.188
A5TMC4			FB5TMC4	5/16	1/4	11/16	1.67	.188
A5TMC6				5/16	3/8	13/16	1.67	.188
A6TMC4	PPB6TMC4	PP6TMC4	FB6TMC4	3/8	1/4	13/16	1.70	.250
A6TMC6	PPB6TMC6	PP6TMC6	FB6TMC6	3/8	3/8	13/16	1.70	.250
A6TMC8				3/8	1/2	15/16	1.90	.250
A8TMC4				1/2	1/4	13/16	1.82	.240
A8TMC6		PP8TMC6	FB8TMC6	1/2	3/8	13/16	1.82	.375
A8TMC8		PP8TMC8	FB8TMC8	1/2	1/2	1	2.04	.375





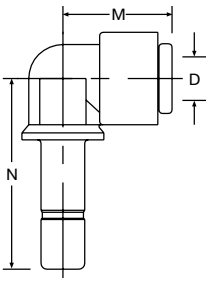
BU - Bulkhead Union Tube-to-Tube

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	C1 Hex	C2 Hex	L Overall Length	P Max. Wall Thick-ness	Flow Dia. D	Bkhd Hole Drill Size
A4BU4-MG	PPB4BU4-MG	PP4BU4	FB4BU4-HBLK	1/4	15/16	15/16	1.50	.50	.175	7/8
A5BU5-MG			FB5BU5-HBLK	5/16	1-1/16	1-1/16	1.75	.62	.188	1
A6BU4-MG	PPB6BU4-MG	PP6BU4	FB6BU4-HBLK	3/8-1/4	1-1/16	1-1/16	1.75	.62	.175	1
A6BU6-MG	PPB6BU6-MG	PP6BU6	FB6BU6-HBLK	3/8	1-1/16	1-1/16	1.75	.62	.250	1
A8BU8-MG			FB8BU8-HBLK	1/2	1-1/4	1-1/4	2.04	.70	.375	1-1/8

For nonstandard plastic collet, remove -MG suffix.

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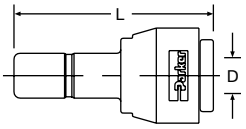


TEU - Tube Elbow Union Tube-to-Tube Stem

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	Tube Stem O.D.	M	N	Flow Dia. D
A4TEU4-MG	PPB4TEU4-MG	PP4TEU4	FB4TEU4-HBLK	1/4	1/4	.84	1.21	.125
A4TEU6-MG			FB4TEU6-HBLK	1/4	3/8	.84	1.35	.125
A5TEU5-MG			FB5TEU5-HBLK	5/16	5/16	1.03	1.40	.188
A6TEU4-MG			FB6TEU4-HBLK	3/8	1/4	1.03	1.29	.125
A6TEU6-MG	PPB6TEU6	PP6TEU6	FB6TEU6-HBLK	3/8	3/8	1.03	1.48	.250
A8TEU8-MG	PPB8TEU8-MG	PP8TEU8	FB8TEU8-HBLK	1/2	1/2	1.21	1.64	.380

For nonstandard plastic collet, remove -MG suffix.





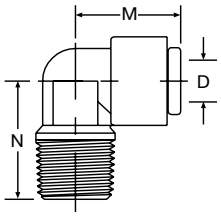
RD - Tube Reducer Tube-to-Tube Stem

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	Tube Stem O.D.	L	Flow Dia. D
A4RD5-MG		PP4RD5		1/4	5/16	1.62	.18
A4RD6-MG	PPB4RD6-MG	PP4RD6	FB4RD6-HBLK	1/4	3/8	1.62	.18
A5RD6-MG				5/16	3/8	1.78	.25
A5RD8-MG				5/16	1/2	1.90	.25
A6RD8-MG			FB6RD8-HBLK	3/8	1/2	1.90	.25

For nonstandard plastic collet, remove -MG suffix.

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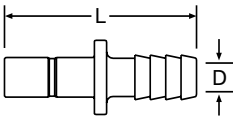


ME - Male Elbow Tube-to-Pipe

Gray Acetal EPDM Seal	Black PPL EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	NPTF Thd Size	M	N	Flow Dia. D
A4ME2-MG	PPB4ME2-MG	PP4ME2	FB4ME2-HBLK	1/4	1/8	.84	.94	.175
A4ME4-MG	PPB4ME4-MG	PP4ME4	FB4ME4-HBLK	1/4	1/4	.84	.94	.175
A4ME6-MG	PPB4ME6-MG	PP4ME6	FB4ME6-HBLK	1/4	3/8	.84	1.04	.175
A5ME4-MG			FB5ME4-HBLK	5/16	1/4	1.03	1.08	.175
A5ME6-MG			FB5ME6-HBLK	5/16	3/8	1.03	1.06	.188
A6ME4-MG		PP6ME4	FB6ME4-HBLK	3/8	1/4	1.03	1.08	.250
A6ME6-MG	PPB6ME6-MG	PP6ME6	FB6ME6-HBLK	3/8	3/8	1.03	1.06	.250

For nonstandard plastic collet, remove -MG suffix.

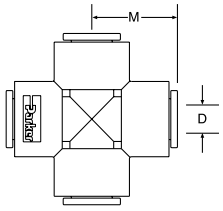




TCB - Tube-to-Barb Connector

Gray Acetal	Black PPL EPDM Seal	White Polypropylene	Black Kynar FKM Seal	Tube Stem O.D.	Tube I.D.	L Overall Length	Flow Dia. D
A4TCB4	PPB4TCB4	PP4TCB4	FB4TCB4	1/4	1/4	1.67	.140
A6TCB4			FB6TCB4	3/8	1/4	1.82	.140
A6TCB6	PPB6TCB6	PP6TCB6	FB6TCB6	3/8	3/8	1.98	.250
A8TCB6				1/2	3/8	2.10	.250
A8TCB8			FB8TCB8	1/2	1/2	2.10	.375



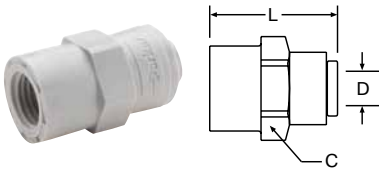


CU - Cross Union Tube-to-Tube

Gray Acetal EPDM Seal	Black Kynar FCB Seal	Nom. Tube O.D.	M	Flow Dia. D
A4CU4-MG		1/4	.91	.175
A6CU6-MG	FB6CU6-HBLK	3/8	1.08	.250

For nonstandard plastic collet, remove -MG suffix.

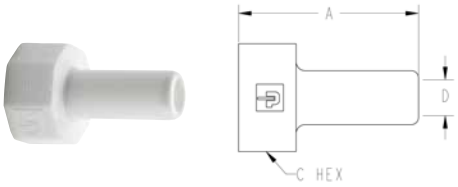
WARNING These products can expose you to chemicals including CARBON BLACK, which is known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



FF - 45° Female Flare Tube-to-Flare

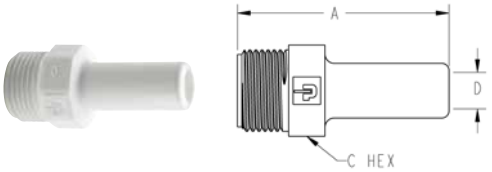
Gray Acetal EPDM Seal	White PPL EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	UNF-2B Thd Size	C Hex	L Overall Length	Flow Dia. D
A4FF4-MG	PP4FF4	FB4FF4-HBLK	1/4	7/16-20	23/32	1.32	.190
A6FF4-MG		FB6FF4-HBLK	3/8	7/16-20	13/16	1.41	.190
A6FF6-MG	PP6FF6	FB6FF6-HBLK	3/8	5/8-18	1	1.50	.250

For nonstandard plastic collet, remove -MG suffix.



TFA - Tube Faucet Adapter (Female Thread)

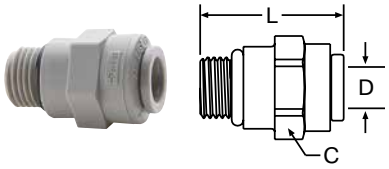
White Acetal	Tube Stem O.D.	Thd Size	A	C Hex	D Min.
AW6TFA7-MG	3/8	7/16-24	1.25	.69	.17
AW6TFA8-MG	3/8	1/2-14 NPSM	1.45	1.06	.22
AW6TFA9-MG	3/8	9/16-24	1.25	.75	.22



TAF - Tube Faucet Adapter (Male Thread)

White Acetal	Tube Stem O.D.	Thd Size	A	C Hex	D Min.
AW6TAF7-MG	3/8	7/16-24	1.41	.50	.22
AW6TAF8-MG	3/8	1/2-14 NPSM	1.65	.88	.22
AW6TAF9-MG	3/8	9/16-24	1.45	.63	.22

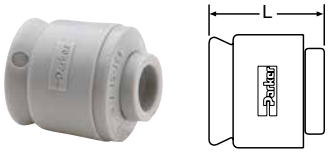
⚠ WARNING These products can expose you to chemicals including CARBON BLACK, which is known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



ST - Straight Thread Tube-to-Male O-Ring Boss

Gray Acetal EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	UNF-2B Thd Size	C Hex	L Overall Length	Flow Dia. D
A6ST9-MG	FB6ST9-HBLK	3/8	9/16-18	13/16	1.39	.250

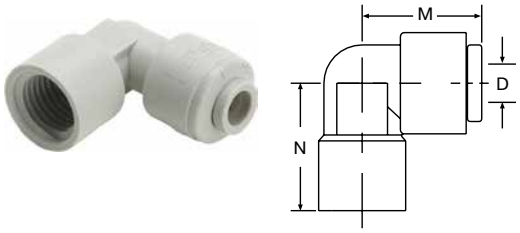
For nonstandard plastic collet, remove -MG suffix.



CAP - Tube Cap

Gray Acetal EPDM Seal	White PPL EPDM Seal	Natural Kynar FKM Seal	Nom. Tube O.D.	L Overall Length
A4CAP-MG	PP4CAP	FB4CAP-HBLK	1/4	.77
A6CAP-MG	PP6CAP		3/8	0.88

For nonstandard plastic collet, remove -MG suffix.

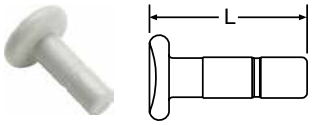


FE - Female Elbow Tube-to-Pipe

Gray Acetal EPDM Seal	Black Kynar FKM Seal	Nom. Tube O.D.	NPTF Thd Size	M	N	Flow Dia. D
A4FE4-MG	FB4FE4-HBLK	1/4	1/4	.84	1.00	.18
A6FE4-MG	FB6FE4-HBLK	3/8	1/4	1.03	1.00	.25
A6FE6-MG	FB6FE6-HBLK	3/8	3/8	1.03	1.00	.25

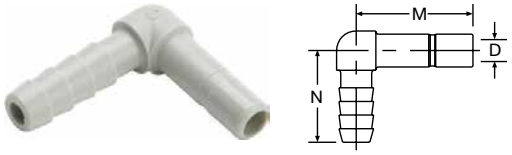
For nonstandard plastic collet, remove -MG suffix.

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TPL - Plug

Gray Acetal	Black PPL	White PPL	Black Kynar	Fitting Size	L Overall Length
A4TPL	PPB4TPL	PP4TPL	FB4TPL	1/4	0.88
A6TPL	PPB6TPL	PP6TPL	FB6TPL	3/8	1.45
A8TPL	PPB8TPL	PP8TPL	FB8TPL	1/2	1.50



TEB - Tube Elbow Barb Connector

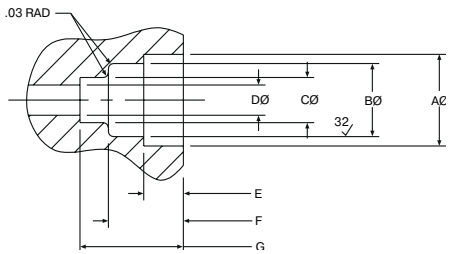
Gray Acetal	White Polypropylene	Black Kynar	Tube Stem O.D.	Tube I.D.	M	N	Flow Dia. D
A4TEB4	PP4TEB4	FB4TEB4	1/4	1/4	.89	1.00	.140
A6TEB4	PP6TEB4	FB6TEB4	3/8	1/4	1.335	1.055	.375
A6TEB6	PP6TEB6	FB6TEB6	3/8	3/8	1.34	1.21	.250
A8TEB8		FB8TEB8	1/2	1/2	1.30	1.30	.390

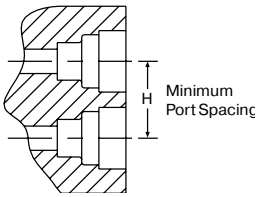
⚠ WARNING These products can expose you to chemicals including CARBON BLACK, which is known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



TSC - Cartridge Insert

Part No. with EPDM Seal	Nom. Tube O.D.	A* Diameter ±002	B Diameter ±003	C Diameter ±003	D Diameter maximum	E Depth ±002	F Depth ±002	G Depth ±002	H* Centerline of Ports Minimum
ATSC4-MG	1/4	.528	.421	.260	.19	.230	.435	.600	.670
ATSC6-MG	3/8	.632	.545	.385	.31	.280	.455	.705	.790
ATSC8-MG	1/2	.774	.668	.510	.41	.315	.510	.810	1.250





Parker TrueSeal™ Cartridge Inserts:

Allow you to machine or mold a tube connection into your equipment or components. By using cartridge inserts, you will reduce your material and assembly costs, reduce potential leak paths, and give your equipment a new, clean profile by eliminating the need for threaded connections. TSC Cartridge Inserts consist of 1 o-ring, 1 cartridge, and 1 collet.

*Cartridge inserts are rated at 150 PSI in ports dimensioned as above and having Noryl as the receiving material. Other materials may have different ratings and require different port dimensions. Consult the Fluid System Connectors Division when using polypropylene, unfilled polypropylene, ABS or Nylon.

NORYL® is a registered trademark of the General Electric Co.

Assembly Instructions:

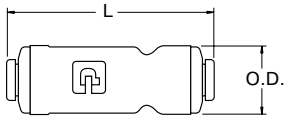
1. Machine or mold the receiving orifice as per the above dimensions.
2. Place the cartridge insert squarely onto the prepared port opening making sure that the barbs of the cartridge are going into the hole and the lettering on the face of the cartridge is visible.
3. Using a rubber mallet or press, insert the cartridge into the first gland orifice until its face is flush with the top surface of the port.
4. Insert the o-ring into the cartridge and seat it evenly into the second gland orifice.
5. Insert the collet into the cartridge opening.
6. Insert tubing.

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TrueSeal Check Valves

Push-to-Connect check valves that ensures protection against reversal of flow. The valves have an arrow molded into the body to indicate the direction of flow. Valves are designed for connection with either thermoplastic or soft metal tubing and are intended for use with liquids only.





VC – Check Valve

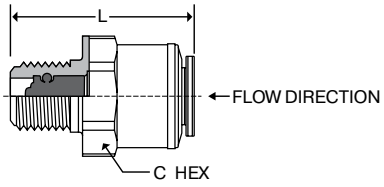
Part No.	Tube Size	L	O.D.
A4VC4-MG	1/4	2.00	.66
A5VC5-MG	5/16	2.10	.70
A6VC6-MG	3/8	2.15	.80
A8VC8-MG	1/2	2.68	.91

Materials of Construction

Body	Acetal
O-ring	EPDM
Metal Grip Edge	300 Stainless
Working Pressure	Up to 150 PSI (10.3 bar) depending on tubing being used
Temperature Range	+34° to +150° F (+1° to +65° C)
Cracking Pressure	1/3 PSI (0.02 bar)

PVDF Check Valves





MCVC Kynar® Check Valves

Part No.	Tube O.D.	NPTF Thread	L	C Hex	Cracking Pressure (psi)
FB6MCVC4-HBLK-05	3/8	1/4	1.40	13/16	.5

Note: For check valve to function properly tubing needs to be installed

Materials of Construction

Body	Kynar®
O-ring	Fluorocarbon
Metal Grip Edge	Stainless Steel
Working Pressure	Up to 300 PSI (20.7 bar)
Temperature Range	0° to +250° F (-17.8° to +121° C)

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Polypropylene Ball Valves

For proven leak-free performance, specify Polypropylene Ball Valves. Their corrosion-resistant, all-plastic design makes them ideal for water filtration units, coffee and beverage machines and a wide variety of other fluid applications. Polypropylene material meets all FDA and NSF-51 requirements for food contact.

Features/Benefits:

- Precision molded, all-plastic design is leak free and corrosion resistant.
- Polypropylene material offers a wider chemical acceptance range, as well as a wide temperature range.
- Bi-directional flow maximizes productivity.
- Full flow design reduces pressure drop across the valve.
- Special o-ring seal ensures a reliable leak-tight connection.
- TrueSeal™ connection reduces potential leaks.

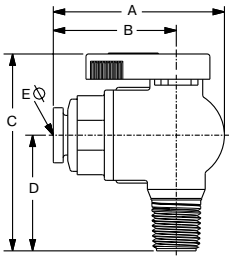
Specifications:

- Temperature range: +35° to +200°F (+2° to +93°C)
- O-ring seal material: EPDM
- NSF/ANSI 51 and NSF/ANSI/CAN 61
- Pressure rated to 150 PSI (10.3 bar). Actual working pressures with be lower at elevated temperatures

Advantages:

- Reduce costs—Built-in TrueSeal™ connection eliminates the need for a secondary fitting.
- Save space—Low-profile design allows for easy assembly and access where space is at a premium.





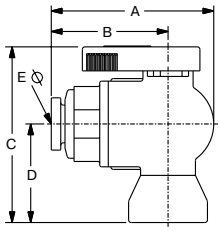
VME - Valve Male Elbow

Part No.	Nom. Tube O.D.	NPTF Thd Size	A	B	C	D	ØE Thru Hole Min.
PP4VME2-MG (+)	1/4	1/8	1.74	1.21	2.00	1.10	.19
PP4VME4-MG	1/4	1/4	1.74	1.21	2.18	1.28	.19
PP4VME6-MG	1/4	3/8	1.74	1.21	2.18	1.28	.19
PP4VME8-MG (+)	1/4	1/2	1.74	1.21	2.37	1.47	.19
PP6VME2-MG (+)	3/8	1/8	1.85	1.32	2.00	1.10	.25
PP6VME4-MG	3/8	1/4	1.85	1.32	2.18	1.28	.25
PP6VME6-MG	3/8	3/8	1.85	1.32	2.18	1.28	.25
PP6VME8-MG	3/8	1/2	1.85	1.32	2.37	1.47	.25

(+) Non Standard.

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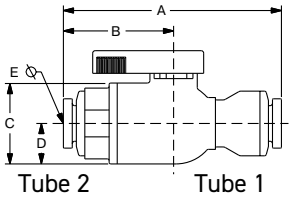




VFE - Valve Female Elbow

Part No.	Nom. Tube O.D.	NPTF Thd Size	A	B	C	D	ØE Thru Hole Min.
PP4VFE2-MG (+)	1/4	1/8	1.74	1.21	1.82	.92	.19
PP4VFE4-MG	1/4	1/4	1.74	1.21	2.05	1.15	.19
PP4VFE6-MG	1/4	3/8	1.74	1.21	2.18	1.28	.19
PP6VFE2-MG (+)	3/8	1/8	1.85	1.32	1.82	.92	.25
PP6VFE4-MG	3/8	1/4	1.85	1.32	2.05	1.15	.25
PP6VFE6-MG	3/8	3/8	1.85	1.32	2.18	1.28	.25

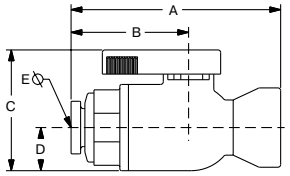




VUC - Valve Union Connector

Black Polypropylene	White Polypropylene	1 Tube Size	2 Tube Size	A	B	C	D	ØE Thru Hole Min.
PPB4VUC4-MG	PP4VUC4-MG	1/4	1/4	2.55	1.22	1.0	.5	.19
	PP4VUC6-MG	1/4	3/8	2.55	1.22	1.0	.5	.19
	PP6VUC4-MG	3/8	1/4	2.57	1.30	1.0	.5	.19
PPB6VUC6-MG	PP6VUC6-MG	3/8	3/8	2.67	1.32	1.4	.5	.25
	PP8VUC8-MG	1/2	1/2	2.94	1.55	1	.5	.38



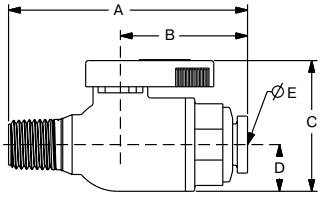


VFC - Valve Female Connector

Black Polypropylene	White Polypropylene	Nom. Tube O.D.	NPTF Thd Size	A	B	C	D	ØE Thru Hole Min.
	PP4VFC2-MG	1/4	1/8	2.04	1.21	1.4	.5	.19
	PP4VFC4-MG	1/4	1/4	2.27	1.21	1.4	.5	.19
	PP4VFC6-MG	1/4	3/8	2.40	1.21	1.4	.5	.19
PPB6VFC4-MG	PP6VFC4-MG	3/8	1/4	2.38	1.32	1.4	.5	.25
PPB6VFC6-MG	PP6VFC6-MG	3/8	3/8	2.51	1.32	1.4	.5	.25

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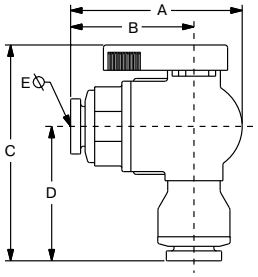




VMC - Valve Male Connector

Black Polypropylene	White Polypropylene	Nom. Tube O.D.	NPTF Thd Size	A	B	C	D	ØE Thru Hole Min.
	PP4VMC2-MG (+)	1/4	1/8	2.22	1.21	1.4	.5	.19
PPB4VMC4-MG	PP4VMC4-MG	1/4	1/4	2.40	1.21	1.4	.5	.19
	PP4VMC6-MG	1/4	3/8	2.40	1.21	1.4	.5	.19
	PP4VMC8-MG (+)	1/4	1/2	2.59	1.21	1.4	.5	.19
	PP6VMC2-MG (+)	3/8	1/8	2.33	1.32	1.4	.5	.25
	PP6VMC4-MG	3/8	1/4	2.51	1.32	1.4	.5	.25
	PP6VMC6-MG	3/8	3/8	2.51	1.32	1.4	.5	.25
	PP6VMC8-MG (+)	3/8	1/2	2.70	1.32	1.4	.5	.25

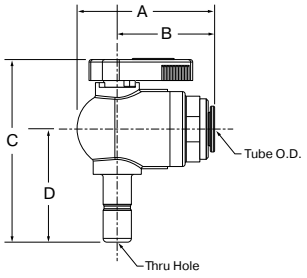




VEU - Valve Elbow Union

Black Polypropylene	White Polypropylene	1 Tube Size	2 Tube Size	A	B	C	D	ØE Thru Hole Min.
	PP4VEU4-MG	1/4	1/4	1.75	1.22	2.33	1.42	.19
	PP4VEU6-MG	1/4	3/8	1.75	1.22	2.33	1.42	.11
	PP6VEU4-MG	3/8	1/4	1.83	1.30	2.32	1.40	.19
PPB6VEU6-MG	PP6VEU6-MG	3/8	3/8	1.85	1.32	2.34	1.44	.25
	PP8VEU8-MG	1/2	1/2	1.93	1.39	2.51	1.61	0.38





VTEU - Valve Tube Elbow Union

Black Polypropylene	White Polypropylene	Nom. Tube O.D.	Stem	A	B	C	D	ØE Thru Hole Min.
PPB6VTEU6-MG	PP4VTEU6-MG	1/4	3/8	1.75	1.22	2.43	1.50	.17
	PP6VTEU6-MG	3/8	3/8	1.83	1.30	2.43	1.50	.25

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SC - Safety Clip (Patent No. 6,065,779)

Part No.	Part No.	For Nominal Tube O.D.
SC-4	SC-4-B	1/4
SC-5	SC-5-B	5/16
SC-6	SC-6-B	3/8
SC-8	SC-8-B	1/2

TS - Tube Supports

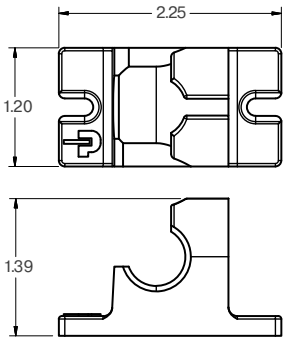
Nylon Part No.	PPL Part No.
N4TS3	P4TS3
N5TS3	P5TS3
N6TS4	P6TS4
N8TS6	P8TS6

To be used with soft durometer tubing.

BVC Ball Valve Clip

BV-Clip Shown below holding VUCPB and VME





AQRT - Quick Release Tool

Makes disconnection of tube adapters and tubing a breeze.



⚠ WARNING These products can expose you to chemicals including CARBON BLACK, which is known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

FAST & TITE® FITTINGS

Parker's Fast & Tite Fittings are a compression style fitting that installs in seconds without tools and provides a tight, sure, leak proof seal without clamps or adjustments. A unique grab ring for tube retention, coupled with a Nitrile o-ring creates a positive seal and assures good tube retention with only hand tight assembly.

Product Features:

- Available in black polypropylene and white nylon
- White polypropylene available as a non-standard part
- 302 stainless steel grab ring
- Nitrile O-ring
- FDA compliant material
- NSF/ANSI-51

Markets:

- Water Filtration
- Beverage Dispensing
- Life Science
- Bottling
- Semi-Conductor

Applications:

- Water
- Beverages
- Food
- Cooling Systems
- Vacuum

Compatible Tubing:

- Thermoplastic
- Soft Metal
- Glass

Tube O.D. (in.)	Insertion Length
1/4	5/8
5/16	5/8
3/8	13/16
1/2	7/8
5/8	1

Specifications:

Air-Oil-Water Pressure in PSI (bar)

Tube O.D. (in)	Up to 75° F	76° to 125° F	126° to 175° F
1/4	300 (20.7)	300 (20.7)	300 (20.7)
5/16	300 (20.7)	300 (20.7)	300 (20.7)
3/8	250 (17.2)	250 (17.2)	150 (10.3)
1/2	200 (13.8)	200 (13.8)	150 (10.3)
5/8	150 (10.3)	100 (6.9)	50 (3.5)

Temperature Range

Nylon:	-40° to +200° F (-40° to +93.3° C)
Polypropylene:	0° to +212° F (-17.8° to +100° C)

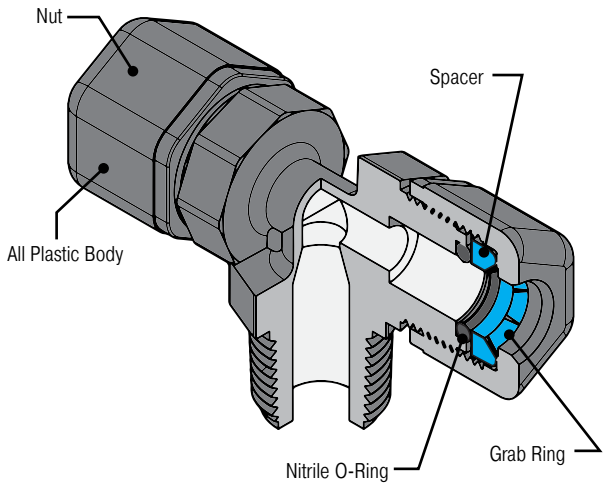
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FAST & TITE® FITTINGS

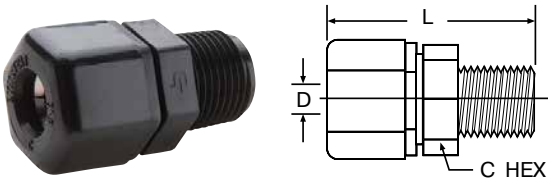
Assembly Instructions

1. Cut the tube squarely and remove any burrs.
2. Mark from end of tube the length of insertion. If using a tube support, insert fully into tube before marking. (See insertion length table left)
3. Loosen nut on fitting until three threads are visible. Fittings for glass tubes must be disassembled and the grab ring removed. If the fitting has been disassembled the components are to be placed in the following order: fitting body, o-ring, spacer, grab ring and nut. Assemble the nut until three threads are showing on the body before inserting tube.
4. Moisten end of the tube with water. Push the tube Straight into fitting until it bottoms on the fitting's shoulder. Tighten nut by hand. Additional tightening should not be necessary, but 1/4 additional turn may be added if desired. Do not overtighten nut as the threads will strip and the fitting will not function properly. A proper assembly will not show the insertion mark extending beyond the nut. If the insertion mark is visible, then steps 1 thru 4 must be repeated.
5. Whenever a Fast & Tite® fitting is assembled for service or reuse the stainless steel grab ring should be replaced for maximum tubing retention.

Note: Provide adequate fail-safe mechanisms such as leakage detection sensors, automatic shut-off controls or other industry and code appropriate fail-safe devices in the design of your water-handling appliance to protect against personal injury and property damage. Plastic fittings containing an o-ring have a finite life depending on the environment, media and severity of the application. Frequent inspections and replacement of the fitting when anomalies are found is recommended.



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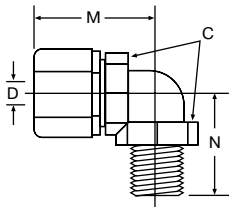


MC - Male Connector Tube to male pipe

Black PPL Part No.	White Nylon Part No.	Nom Tube O.D.	NPTF Thread Size	C Hex	L Overall Length	Flow Dia. D
P4MC2	N4MC2	1/4	1/8	11/16	1.28	.170
P4MC4	N4MC4	1/4	1/4	11/16	1.51	.170
P4MC6*	N4MC6*	1/4	3/8	11/16	.148	.170
P5MC2	N5MC2	5/16	1/8	11/16	1.38	.170
P5MC4	N5MC4	5/16	1/4	11/16	1.50	.250
P6MC2	N6MC2	3/8	1/8	13/16	1.50	.170
P6MC4	N6MC4	3/8	1/4	13/16	1.67	.250
P6MC6	N6MC6	3/8	3/8	13/16	1.67	.250
P6MC8	N6MC8	3/8	1/2	1	1.78	.250
P6MC12	N6MC12	3/8	3/4	1	1.84	.250
P8MC2	N8MC2	1/2	1/8	1	1.61	.170
P8MC4	N8MC4	1/2	1/4	1	1.74	.250
P8MC6	N8MC6	1/2	3/8	1	1.74	.375
P8MC8	N8MC8	1/2	1/2	1	1.87	.375
P8MC12	N8MC12	1/2	3/4	1	1.89	.375
P10MC2		5/8	1/8	1-1/8	1.75	.170
P10MC4	N10MC4	5/8	1/4	1-1/8	1.90	.250
P10MC6	N10MC6	5/8	3/8	1-1/8	1.90	.375
P10MC8	N10MC8	5/8	1/2	1-1/8	2.01	.500
P10MC12	N10MC12	5/8	3/4	1-1/8	2.04	.500

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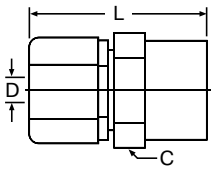


ME - Male Elbow Tube to male pipe

Black PPL Part No.	White Nylon Part No.	Nom Tube O.D.	NPTF Thd Size	C Hex	M	N	Flow Dia. D
P4ME2	N4ME2	1/4	1/8	3/4	1.06	0.81	.170
P4ME4	N4ME4	1/4	1/4	3/4	1.06	1.02	.170
P4ME6	N4ME6	1/4	3/8	3/4	1.06	1.02	.170
P5ME2		5/16	1/8	3/4	1.06	0.81	.193
P5ME4	N5ME4	5/16	1/4	3/4	1.06	1.02	.193
P5ME6		5/16	3/8	3/4	1.06	1.02	.193
P6ME4	N6ME4	3/8	1/4	7/8	1.28	1.12	.250
P6ME6	N6ME6	3/8	3/8	7/8	1.28	1.12	.250
P6ME8	N6ME8	3/8	1/2	1	1.28	1.34	.250
P6ME12	N6ME12	3/8	3/4	1-3/16	1.59	1.40	.250
P8ME4	N8ME4*	1/2	1/4	1-1/16	1.48	1.22	.250
P8ME6	N8ME6	1/2	3/8	1-1/16	1.56	1.21	.375
P8ME8	N8ME8	1/2	1/2	1-1/16	1.56	1.34	.375
P8ME12*	N8ME12*	1/2	3/4	1-1/8	1.50	1.40	.375
P10ME8	N10ME8	5/8	1/2	1-3/16	1.72	1.40	.500

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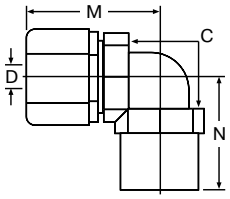




FC - Female Connector Tube to female pipe

Black PPL Part No.	White Nylon Part No.	Nom Tube O.D.	NPTF Thd Size	C Hex	L	Flow Dia. D
P4FC2	N4FC2	1/4	1/8	11/16	1.31	.170
P4FC4	N4FC4	1/4	1/4	11/16	1.44	.170
P6FC4	N6FC4	3/8	1/4	13/16	1.61	.250
P6FC6	N6FC6	3/8	3/8	13/16	1.64	.250
P6FC8	N6FC8	3/8	1/2	13/16	1.75	.250
P8FC6	N8FC6	1/2	3/8	1	1.70	.375
P8FC8	N8FC8	1/2	1/2	1	1.85	.375
P10FC8	N10FC8	5/8	1/2	1-1/8	1.96	.500



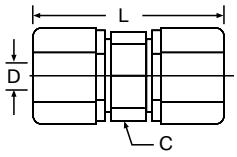


FE - Female Elbow Tube to female pipe

Black PPL Part No.	White Nylon Part No.	Nom Tube O.D.	NPTF Thd Size	C Hex	M	N	Flow Dia. D
P4FE2	N4FE2	1/4	1/8	11/16	1.10	0.84	.170
P4FE4	N4FE4	1/4	1/4	11/16	1.10	0.94	.170
	N5FE2	5/16	1/8	11/16	1.10	0.84	.193
P6FE4	N6FE4	3/8	1/4	13/16	1.30	1.06	.250
P6FE6	N6FE6	3/8	3/8	13/16	1.30	1.03	.250
P8FE6	N8FE6	1/2	3/8	1	1.50	1.16	.375
P8FE8	N8FE8	1/2	1/2	1	1.50	1.27	.375
P10FE8	N10FE8	5/8	1/2	1-1/8	1.70	1.34	.500

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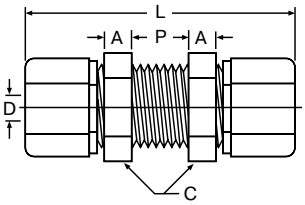




UC - Union Connector Tube to tube

Black PPL Part No.	White Nylon Part No.	Nom. Tube O.D.	C Hex	L Overall Length	Flow Dia. D
P4UC4	N4UC4	1/4	11/16	1.62	.170
P5UC4	N5UC4	5/16-1/4	11/16	1.62	.170
P5UC5	N5UC5	5/16	11/16	1.62	.190
P6UC4	N6UC4	3/8-1/4	13/16	1.80	.170
P6UC5	N6UC5	3/8-5/16	13/16	1.80	.190
P6UC6	N6UC6	3/8	13/16	1.92	.250
P8UC6	N8UC6	1/2-3/8	1	1.95	.250
P8UC8	N8UC8	1/2	1	2.03	.375
P10UC6	N10UC6	5/8-3/8	1-1/8	2.19	.250
P10UC8	N10UC8	5/8-1/2	1-1/8	2.24	.375
P10UC10	N10UC10	5/8	1-1/8	2.40	.500



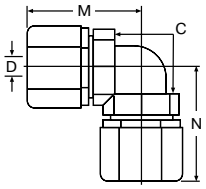


BU - Bulkhead Union Tube to tube

Black PPL Part No.	White Nylon Part No.	Nom Tube O.D.	A Ref.	C Hex	L Overall Length	P Max	Flow Dia. D	Blkhd Hole Drill Size
P4BU4	N4BU4	1/4	1/4	13/16	2-11/64	3/8	.170	21/32
P5BU5	N5BU5	5/16	1/4	13/16	2-11/64	3/8	.187	21/32
P6BU6	N6BU6	3/8	9/32	15/16	2-39/64	1/2	.250	25/32
P8BU8	N8BU8	1/2	5/16	1-5/32	2-3/4	1/2	.375	31/32

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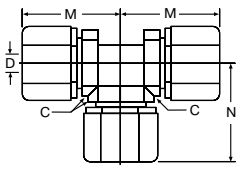




EU - Elbow Union Tube to tube

Black PPL Part No.	White Nylon Part No.	Nom. Tube O.D.	C Hex	M	N	Flow Dia. D
P4EU4	N4EU4	1/4	3/4	1.06	1.06	.170
P5EU4	N5EU4	5/16-1/4	3/4	1.06	1.06	.170
P5EU5	N5EU5	5/16	3/4	1.06	1.06	.193
P6EU4	N6EU4	3/8-1/4	7/8	1.06	1.28	.170
P6EU5		3/8-5/16	7/8	1.06	1.28	.170
P6EU6	N6EU6	3/8	7/8	1.28	1.28	.250
P8EU6	N8EU6	1/2-3/8	1-1/16	1.37	1.56	.250
P8EU8	N8EU8	1/2	1-1/16	1.56	1.56	.375
P10EU10	N10EU10	5/8	1-3/16	1.72	1.72	.500





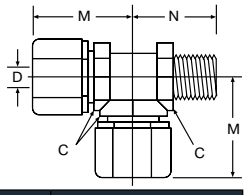
TU - Tee Union Tube to tube

Black PPL Part No.	White Nylon Part No.	Nom. Tube O.D.	C Hex	M	N	Flow Dia. D
P4TU4	N4TU4	1/4	11/16	1.09	1.09	.170
P5TU5	N5TU5	5/16	11/16	1.09	1.09	.187
P6TU6	N6TU6	3/8	13/16	1.30	1.30	.250
P8TU6	N8TU6	1/2-3/8	1	1.46	1.39	.250
P8TU8	N8TU8	1/2	1	1.46	1.46	.375
P10TU6	N10TU6	5/8-3/8	1-1/8	1.68	1.46	.250
P10TU10	N10TU10	5/8	1-3/16	1.68	1.68	.500

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MR - Male Run Tee Tube to male pipe

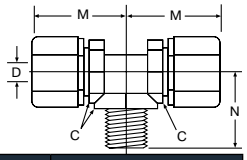




Black PPL Part No.	White Nylon Part No.	Nom Tube O.D.	NPTF Thd Size	C Hex	M	N	Flow Dia. D
P4MR2	N4MR2	1/4	1/8	11/16	1.09	0.89	.170
P6MR4	N6MR4	3/8	1/4	13/16	1.30	1.17	.250
P8MR6		1/2	3/8	1	1.46	1.28	.375

MT - Male Branch Tee Tube to male pipe





Black PPL Part No.	White Nylon Part No.	Nom. Tube O.D.	NPTF Thd Size	C Hex	M	N	Flow Dia. D
P4MT2	N4MT2	1/4	1/8	11/16	1.09	0.89	.170
P4MT4	N4MT4	1/4	1/4	11/16	1.09	1.06	.170
P5MT2	N5MT2	5/16	1/8	11/16	1.09	0.89	.170
P5MT4		5/16	1/4	11/16	1.09	1.06	.187
P6MT4	N6MT4	3/8	1/4	13/16	1.30	1.12	.250
P6MT6	N6MT6	3/8	3/8	13/16	1.30	1.10	.250
P8MT6	N8MT6	1/2	3/8	1	1.46	1.22	.375
P8MT8	N8MT8	1/2	1/2	1	1.46	1.43	.375
P10MT8		5/8	1/2	1-1/8	1.68	1.41	.500

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GR - Grab Ring (Stainless or Plastic)

Stainless Grab Ring Part No.	Plastic Grab Ring Part No.	For Nom. Tube O.D.
4GR	4GRP	1/4
5GR	5GRP	5/16
6GR	6GRP	3/8
8GR	8GRP	1/2
10GR	10GRP	5/8



OR - O-Ring

For Nom. Tube O.D.	Nitrile O-Ring	Fluorocarbon O-Ring	EPDM O-Ring
1/4	4OR	4OR-V	4OR-EPDM
5/16	5OR	5OR-V	5OR-EPDM
3/8	6OR	6OR-V	6OR-EPDM
1/2	8OR	8OR-V	8OR-EPDM
5/8	10OR	10OR-V	10OR-EPDM



N - Nut

Black Polypropylene Part No.	White Nylon Part No.	For Nom. Tube O.D.
P4N	N4N	1/4
P5N	N5N	5/16
P6N	N6N	3/8
P8N	N8N	1/2
P10N	N10N	5/8



TS - Tube Support

Polypropylene Part No.	Nylon Part No.	For Tube Part No.
P4TS3	N4TS3	PV43
P5TS3	N5TS3	PV53
P6TS4	N6TS4	PV64
P8TS6	N8TS6	PV86
P10TS8	N10TS8	PV108



S - Spacer

Black Polypropylene Part No.	White Nylon Part No.	For Nom. Tube O.D.
P4S	N4S	1/4
P5S	N5S	5/16
P6S	N6S	3/8
P8S	N8S	1/2
P10S	N10S	5/8

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Fast and Tite Ball Valves

This range of ball valves uses compression technology to create a sure and tight connection. Use Parker's Fast and Tite fittings for low pressure applications such as water filtration, beverage dispensing, or on vacuum lines. Manufactured from black polypropylene material, these valves meet FDA and NSF-51 requirements for food contact.

Features/Benefits:

- 302 Stainless Steel Grab Ring
- Nitrile O-ring
- FDA Compliant
- NSF/ANSI-51 Compliant

Specifications:

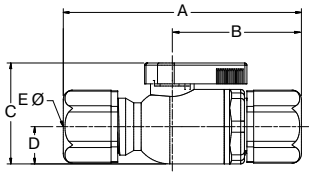
- Temperature Range: +35° F to +200° F (+1° C to +93° C)
- O-ring Seal Material: Nitrile
- NSF/ANSI 51
- Pressure Rated to 150PSI

Assembly Instructions:

1. Cut the tube squarely and remove any burrs.
2. Mark from end of tube the length of insertion. If using a tube support, insert fully into tube before marking. (See insertion length table left)
3. Loosen nut on fitting until three threads are visible. Fittings for glass tubes must be disassembled and the grab ring removed. If the fitting has been disassembled the components are to be placed in the following order: fitting body, o-ring, spacer, grab ring and nut. Assemble the nut until three threads are showing on the body before inserting tube.
4. Moisten end of the tube with water. Push the tube Straight into fitting until it bottoms on the fitting's shoulder. Tighten nut by hand. Additional tightening should not be necessary, but 1/4 additional turn may be added if desired. Do not overtighten nut as the threads will strip and the fitting will not function properly. A proper assembly will not show the insertion mark extending beyond the nut. If the insertion mark is visible, then steps 1 thru 4 must be repeated.
5. Whenever a Fast & Tite® fitting is assembled for service or reuse the stainless steel grab ring should be replaced for maximum tubing retention.
6. Note: Provide adequate fail-safe mechanisms such as leakage detection sensors, automatic shut-off controls or other industry and code appropriate fail-safe devices in the design of your water-handling appliance to protect against personal injury and property damage. Plastic fittings containing an o-ring have a finite life depending on the environment, media and severity of the application. Frequent inspections and replacement of the fitting when anomalies are found is recommended.

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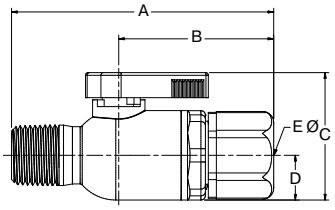




VUC - Valve Union Connector

Part No.	1 Tube Size	2 Tube Size	A	B	C	D	ØE Thru Hole Min.
FTPPB4VUC4	1/4	1/4	2.94	1.61	1.4	.5	.19
FTPPB4VUC6	1/4	3/8	3.07	1.61	1.4	.5	.19
FTPPB6VUC6	3/8	3/8	3.19	1.73	1.4	.5	.25
FTPPB8VUC8	1/2	1/2	3.27	1.80	1.4	.5	.38

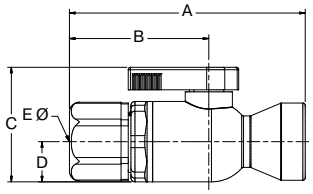




VMC - Valve Male Connector

Part No.	1 Tube Size	NPTF Thd Size	A	B	C	D	ØE Thru Hole Min.
FTPPB4VMC4	1/4	1/4	2.81	1.61	1.4	.5	.19
FTPPB4VMC6	1/4	3/8	2.81	1.61	1.4	.5	.19
FTPPB6VMC4	3/8	1/4	2.93	1.73	1.4	.5	.19
FTPPB6VMC6	3/8	3/8	2.93	1.73	1.4	.5	.25
FTPPB8VMC6	1/2	3/8	3.00	1.79	1.4	.5	.25



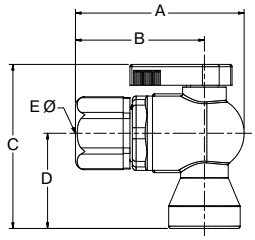


VFC - Valve Female Connector

Part No.	1 Tube Size	NPTF Thd Size	A	B	C	D	ØE Thru Hole Min.
FTPPB4VFC4	1/4	1/4	2.78	1.61	1.4	.5	.19
FTPPB6VFC6	3/8	3/8	2.93	1.73	1.4	.5	.25
FTPPB8VFC6	1/2	3/8	3.00	1.8	1.4	.5	.25

WARNING These products can expose you to chemicals including CARBON BLACK, which is known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

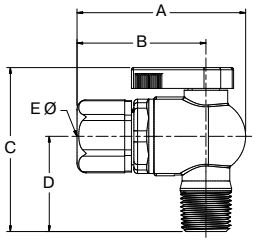




VFE - Valve Female Elbow

Part No.	1 Tube Size	NPTF Thd Size	A	B	C	D	ØE Thru Hole Min.
FTPPB4VFE4	1/4	1/4	2.14	1.61	2.18	1.25	.19
FTPPB6VFE4	3/8	1/4	2.26	1.73	2.18	1.25	.19
FTPPB6VFE6	3/8	3/8	2.26	1.73	2.21	1.28	.25
FTPPB8VFE6	1/2	3/8	2.34	1.8	2.21	1.28	.25

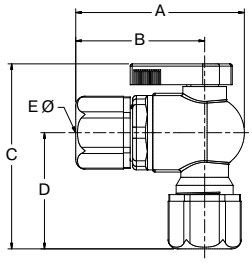




VME - Valve Male Elbow

Part No.	1 Tube Size	NPTF Thd Size	A	B	C	D	ØE Thru Hole Min.
FTPPB4VME4	1/4	1/4	2.14	1.61	2.21	1.28	.19
FTPPB6VME4	3/8	1/4	2.26	1.73	2.21	1.28	.19
FTPPB6VME6	3/8	3/8	2.26	1.73	2.21	1.28	.25
FTPPB8VME8	1/2	1/2	2.34	1.8	2.4	1.47	.38





VEU - Valve Elbow Union

Part No.	1 Tube Size	2 Tube Size	A	B	C	D	ØE Thru Hole Min.
FTPPB4VEU4	1/4	1/4	2.14	1.61	2.35	1.42	.19
FTPPB6VEU4	3/8	1/4	2.26	1.73	2.37	1.44	.19
FTPPB6VEU6	3/8	3/8	2.26	1.73	2.49	1.56	.25
FTPPB8VEU8	1/2	1/2	2.34	1.8	2.47	1.54	.38

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PAR-BARB® FITTINGS

Parker's Par-Barb Fittings are injection molded from high strength chemically inert, thermoplastic materials. The multiple barb design generates the maximum gripping and sealing power when combined with a hose clamp.

Product Features:

- Available in black polypropylene and white nylon
- FDA compliant material
- NSF/ANSI 51
- Uniprene washer
- Up to 1 1/2" sizes



Markets:

- Water
- Beverage Dispensing
- Bottling
- Semi-Conductor

Applications:

- Water
- Beverages
- Cooling Systems
- Vacuum

Compatible Tubing:

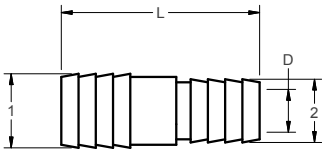
- Vinyl
- Polyurethane
- Rubber hose

Specifications:

Pressure Range	Up to 125 PSI (8.6 bar)
Temperature Range	
Nylon:	-40˚ to +200˚ F (-40° to +93.3° C)
Polypropylene:	0˚ to +212˚ F (-12.2° to +100° C)

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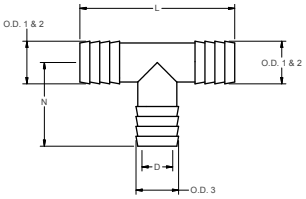


Union Connector 322HB

Part No.	Material	Tube or Hose I.D. 1	Tube or Hose I.D. 2	O.D. 1	O.D. 2	L	Flow Dia. D
322HB-3N	White Nylon	3/16	3/16	.25	.25	1.768	.106
322HB-3PP	Black Polypropylene	3/16	3/16	.25	.25	1.725	.106
322HB-4-3N	White Nylon	1/4	3/16	.31	.25	1.725	.106
322HB-4-3PP	Black Polypropylene	1/4	3/16	.31	.25	1.725	.106
322HB-4N	White Nylon	1/4	1/4	.31	.31	1.725	.153
322HB-4PP	Black Polypropylene	1/4	1/4	.31	.31	1.725	.153
322HB-5N	White Nylon	5/16	5/16	.37	.37	1.725	.215
322HB-5PP	Black Polypropylene	5/16	5/16	.37	.37	1.725	.215
322HB-6-4N	White Nylon	3/8	1/4	.43	.31	1.725	.153
322HB-6-4PP	Black Polypropylene	3/8	1/4	.43	.31	1.725	.153
322HB-6N	White Nylon	3/8	3/8	.43	.43	1.73	.245
322HB-6PP	Black Polypropylene	3/8	3/8	.43	.43	1.73	.245
322HB-8-4N	White Nylon	1/2	1/4	.55	.31	1.725	.153
322HB-8-4PP	Black Polypropylene	1/2	1/4	.55	.31	1.725	.153
322HB-8-6N	White Nylon	1/2	3/8	.55	.43	1.725	.247
322HB-8-6PP	Black Polypropylene	1/2	3/8	.55	.43	1.725	.247
322HB-8N	White Nylon	1/2	1/2	.55	.55	1.725	.372
322HB-8PP	Black Polypropylene	1/2	1/2	.55	.55	1.725	.372
322HB-10-6N	White Nylon	5/8	3/8	.64	.43	1.725	.247
322HB-10-6PP	Black Polypropylene	5/8	3/8	.64	.43	1.725	.247
322HB-10-8N	White Nylon	5/8	1/2	.64	.55	1.725	.372
322HB-10-8PP	Black Polypropylene	5/8	1/2	.64	.55	1.725	.372
322HB-10N	White Nylon	5/8	5/8	.64	.64	1.765	.465
322HB-10PP	Black Polypropylene	5/8	5/8	.64	.64	1.765	.465
322HB-12PP	Black Polypropylene	3/4	3/4	.845	.845	3.77	.610

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Union Tee 364HB

Part No.	Material	Tube or Hose I.D. 1	Tube or Hose I.D. 2	Tube or Hose I.D. 3	O.D. 1	O.D. 2	O.D. 3	L	N	Flow Dia. D
364HB-3N	White Nylon	3/16	3/16	3/16	.25	.25	.25	1.94	1.275	.106
364HB-3PP	Black Polypropylene	3/16	3/16	3/16	.25	.25	.25	1.94	1.256	.106
364HB-4N	White Nylon	1/4	1/4	1/4	.31	.31	.31	2.00	1.280	.153
364HB-4PP	Black Polypropylene	1/4	1/4	1/4	.31	.31	.31	2.00	1.256	.153
364HB-5N	White Nylon	5/16	5/16	5/16	.36	.36	.36	2.06	1.280	.215
364HB-5PP	Black Polypropylene	5/16	5/16	5/16	.36	.36	.36	2.06	1.256	.215
364HB-6-4N	White Nylon	3/8	3/8	1/4	.43	.43	.31	2.12	1.256	.153
364HB-6-4PP	Black Polypropylene	3/8	3/8	1/4	.43	.43	.31	2.12	1.256	.153
364HB-6-8N	White Nylon	3/8	3/8	1/2	.43	.43	.55	2.12	1.256	.247
364HB-6-8PP	Black Polypropylene	3/8	3/8	1/2	.43	.43	.55	2.12	1.256	.247
364HB-6N	White Nylon	3/8	3/8	3/8	.43	.43	.43	2.12	1.260	.247
364HB-6PP	Black Polypropylene	3/8	3/8	3/8	.43	.43	.43	2.12	1.256	.247
364HB-8-6N	White Nylon	1/2	1/2	3/8	.55	.55	.43	2.25	1.256	.247
364HB-8-6PP	Black Polypropylene	1/2	1/2	3/8	.55	.55	.43	2.25	1.256	.247
364HB-8N	White Nylon	1/2	1/2	1/2	.55	.55	.55	2.25	1.265	.375
364HB-8PP	Black Polypropylene	1/2	1/2	1/2	.55	.55	.55	2.25	1.256	.372
364HB-10N	White Nylon	5/8	5/8	5/8	.64	.64	.64	2.34	1.265	.465
364HB-10PP	Black Polypropylene	5/8	5/8	5/8	.64	.64	.64	2.34	1.256	.465

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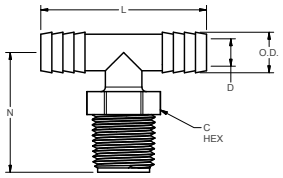


Union Elbow 365HB

Part No.	Material	Tube or Hose I.D. 1	Tube or Hose I.D. 2	O.D. 1	O.D. 2	M	N	Flow Dia. D
365HB-4N	White Nylon	1/4	1/4	.31	.31	1.002	1.256	.153
365HB-4PP	Black Polypropylene	1/4	1/4	.31	.31	1.002	1.256	.153
365HB-6N	White Nylon	3/8	3/8	.43	.43	1.090	1.270	.247
365HB-6PP	Black Polypropylene	3/8	3/8	.43	.43	1.090	1.270	.247
365HB-8-4N	White Nylon	1/2	1/4	.55	.31	1.002	1.256	.153
365HB-8-4PP	Black Polypropylene	1/2	1/4	.55	.31	1.002	1.256	.153
365HB-8-6N	White Nylon	1/2	3/8	.55	.43	1.060	1.256	.247
365HB-8-6PP	Black Polypropylene	1/2	3/8	.55	.43	1.060	1.256	.247
365HB-8N	White Nylon	1/2	1/2	.55	.55	1.145	1.265	.372
365HB-8PP	Black Polypropylene	1/2	1/2	.55	.55	1.123	1.256	.372
365HB-10N	White Nylon	5/8	5/8	.64	.64	1.200	1.280	.465
365HB-10PP	Black Polypropylene	5/8	5/8	.64	.64	1.170	1.256	.465
365HB-12N	White Nylon	3/4	3/4	.79	.79	1.270	1.270	.606
365HB-12PP	Black Polypropylene	3/4	3/4	.79	.79	1.242	1.256	.606

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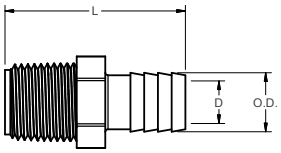
Male Branch Tee 372HB

Part No.	Material	Tube or Hose I.D. 1 & 2	NPT Pipe Thd.	O.D. 1 & 2	C Hex	L	N	Flow Dia. D
372HB-3-2N	White Nylon	3/16	1/8	.25	7/16	1.940	1.187	.106
372HB-3-4N	White Nylon	3/16	1/4	.25	9/16	1.940	1.406	.106
372HB-4-2N	White Nylon	1/4	1/8	.31	7/16	2.000	1.187	.153
372HB-4-2PP	Black Polypropylene	1/4	1/8	.31	7/16	2.000	1.187	.153
372HB-4-4N	White Nylon	1/4	1/4	.31	9/16	2.000	1.406	.153
372HB-4-4PP	Black Polypropylene	1/4	1/4	.31	9/16	2.000	1.406	.153
372HB-4-6PP	Black Polypropylene	1/4	3/8	.31	11/16	2.000	1.436	0.153
372HB-6-4N	White Nylon	3/8	1/4	.43	9/16	2.120	1.406	.247
372HB-6-4PP	Black Polypropylene	3/8	1/4	.43	9/16	2.120	1.406	.247
372HB-6-6PP	Black Polypropylene	3/8	3/8	.43	11/16	2.120	1.436	.247
372HB-6-8N	White Nylon	3/8	1/2	.43	7/8	2.120	1.626	.247
372HB-6-8PP	Black Polypropylene	3/8	1/2	.43	7/8	2.120	1.626	.247
372HB-8-4N	White Nylon	1/2	1/4	.55	9/16	2.250	1.406	.372
372HB-8-4PP	Black Polypropylene	1/2	1/4	.55	9/16	2.250	1.406	.372
372HB-8-6N	White Nylon	1/2	3/8	.55	11/16	2.250	1.436	.372
372HB-8-6PP	Black Polypropylene	1/2	3/8	.55	11/16	2.250	1.436	.372
372HB-8-8N	White Nylon	1/2	1/2	.55	7/8	2.250	1.646	.372
372HB-8-8PP	Black Polypropylene	1/2	1/2	.55	7/8	2.250	1.646	.372
372HB-12-12N	White Nylon	3/4	3/4	.79	1-1/8	2.480	1.594	.606
372HB-12-12PP	Black Polypropylene	3/4	3/4	.79	1-1/8	2.480	1.594	.606

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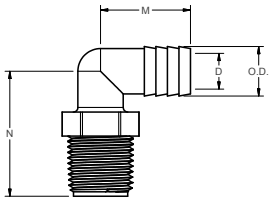
Male Connector 325HB

Part No.	Material	Tube or Hose I.D. 1	NPT Pipe Thd.	O.D. 1	C Hex	L	Flow Dia. D
325HB-3-2N	White Nylon	3/16	0.125	.25	7/16	1.530	.106
325HB-3-2PP	Black Polypropylene	3/16	0.125	.25	7/16	1.530	.106
325HB-3-4N	White Nylon	3/16	0.25	.25	9/16	1.750	.106
325HB-3-4PP	Black Polypropylene	3/16	0.25	.25	9/16	1.750	.106
325HB-4-2N	White Nylon	0.25	0.125	.31	7/16	1.530	.153
325HB-4-2PP	Black Polypropylene	0.25	0.125	.31	7/16	1.530	.153
325HB-4-4N	White Nylon	0.25	0.25	.31	9/16	1.750	.153
325HB-4-4PP	Black Polypropylene	0.25	0.25	.31	9/16	1.750	.153
325HB-4-6N	White Nylon	0.25	0.375	.31	11/16	1.780	.153
325HB-4-8N	White Nylon	0.25	0.5	.31	7/8	1.970	.153
325HB-4-8PP	Black Polypropylene	0.25	0.5	.31	7/8	1.970	.153
325HB-4-12N	White Nylon	0.25	0.75	.31	1-1/8	1.980	.153
325HB-5-2N	White Nylon	5/16	1/8	.36	7/16	1.530	.187
325HB-5-4N	White Nylon	5/16	1/4	.36	7/16	1.750	.215
325HB-5-6N	White Nylon	5/16	3/8	.36	11/16	1.780	.215
325HB-5-6PP	Black Polypropylene	5/16	3/8	.36	11/16	1.780	.215
325HB-6-2N	White Nylon	3/8	1/8	.43	7/16	1.530	.187
325HB-6-2PP	Black Polypropylene	3/8	1/8	.43	7/16	1.530	.187
325HB-6-4N	White Nylon	3/8	1/4	.43	9/16	1.750	.247
325HB-6-4PP	Black Polypropylene	3/8	1/4	.43	9/16	1.750	.247
325HB-6-6N	White Nylon	3/8	3/8	.43	11/16	1.780	.247
325HB-6-6PP	Black Polypropylene	3/8	3/8	.43	11/16	1.780	.247
325HB-6-8N	White Nylon	3/8	1/2	.43	7/8	1.970	.247
325HB-6-8PP	Black Polypropylene	3/8	1/2	.43	7/8	1.970	.247
325HB-6-12N	White Nylon	3/8	3/4	.43	1-1/8	1.980	.247
325HB-6-12PP	Black Polypropylene	3/8	3/4	.43	1-1/8	1.980	.247
325HB-8-4N	White Nylon	1/2	1/4	.55	9/16	1.750	.310
325HB-8-4PP	Black Polypropylene	1/2	1/4	.55	9/16	1.750	.310
325HB-8-6N	White Nylon	1/2	3/8	.55	11/16	1.780	.372
325HB-8-6PP	Black Polypropylene	1/2	3/8	.55	11/16	1.780	.372
325HB-8-8N	White Nylon	1/2	1/2	.55	7/8	1.970	.372
325HB-8-8PP	Black Polypropylene	1/2	1/2	.55	7/8	1.970	.372
325HB-8-12N	White Nylon	1/2	3/4	.55	1-1/8	1.980	.372
325HB-8-12PP	Black Polypropylene	1/2	3/4	.55	1-1/8	1.980	.372
325HB-10-6N	White Nylon	5/8	3/8	.64	11/16	1.780	.406
325HB-10-6PP	Black Polypropylene	5/8	3/8	.64	11/16	1.780	.406
325HB-10-8N	White Nylon	5/8	1/2	.64	7/8	1.970	.465
325HB-10-8PP	Black Polypropylene	5/8	1/2	.64	7/8	1.970	.465
325HB-10-12N	White Nylon	5/8	3/4	.64	1-1/8	1.980	.465
325HB-10-12PP	Black Polypropylene	5/8	3/4	.64	1-1/8	1.980	.465
325HB-12-8N	White Nylon	3/4	1/2	.80	7/8	1.970	.606
325HB-12-8PP	Black Polypropylene	3/4	1/2	.80	7/8	1.970	.606
325HB-12-12N	White Nylon	3/4	3/4	.80	1-1/8	1.980	.606
325HB-12-12PP	Black Polypropylene	3/4	3/4	.80	1-1/8	1.980	.606

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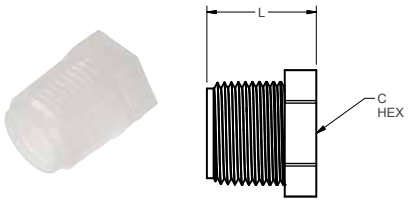


Male Elbow 329HB

Part No.	Material	Tube or Hose I.D. 1	NPT Pipe Thd.	O.D. 1	C Hex	M	N	Flow Dia. D
329HB-3-2N	White Nylon	3/16	1/8	.25	7/16	.97	1.186	.106
329HB-3-2PP	Black Polypropylene	3/16	1/8	.25	7/16	.97	1.186	.106
329HB-3-4N	White Nylon	3/16	1/4	.25	9/16	.97	1.406	.106
329HB-4-2N	White Nylon	1/4	1/8	.31	7/16	1.00	1.186	.153
329HB-4-2PP	Black Polypropylene	1/4	1/8	.31	7/16	1.00	1.186	.153
329HB-4-4N	White Nylon	1/4	1/4	.31	9/16	1.00	1.406	.153
329HB-4-4PP	Black Polypropylene	1/4	1/4	.31	9/16	1.00	1.406	.153
329HB-4-6N	White Nylon	1/4	3/8	.31	11/16	1.00	1.421	.153
329HB-4-6PP	Black Polypropylene	1/4	3/8	.31	11/16	1.00	1.421	.153
329HB-4-8N	White Nylon	1/4	1/2	.31	7/8	1.00	1.626	.153
329HB-4-8PP	Black Polypropylene	1/4	1/2	.31	7/8	1.00	1.626	.153
329HB-6-2N	White Nylon	3/8	1/8	.43	7/16	1.06	1.186	.247
329HB-6-2PP	Black Polypropylene	3/8	1/8	.43	7/16	1.06	1.186	.247
329HB-6-4N	White Nylon	3/8	1/4	.43	9/16	1.06	1.406	.247
329HB-6-4PP	Black Polypropylene	3/8	1/4	.43	9/16	1.06	1.406	.247
329HB-6-6N	White Nylon	3/8	3/8	.43	11/16	1.085	1.436	.247
329HB-6-6PP	Black Polypropylene	3/8	3/8	.43	11/16	1.085	1.436	.247
329HB-6-8N	White Nylon	3/8	1/2	.43	7/8	1.06	1.626	.247
329HB-6-8PP	Black Polypropylene	3/8	1/2	.43	7/8	1.06	1.626	.247
329HB-8-4N	White Nylon	1/2	1/4	.55	9/16	1.135	1.406	.281
329HB-8-4PP	Black Polypropylene	1/2	1/4	.55	9/16	1.12	1.406	.281
329HB-8-6N	White Nylon	1/2	3/8	.55	11/16	1.12	1.436	.372
329HB-8-6PP	Black Polypropylene	1/2	3/8	.55	11/16	1.12	1.436	.372
329HB-8-8N	White Nylon	1/2	1/2	.55	7/8	1.12	1.626	.372
329HB-8-8PP	Black Polypropylene	1/2	1/2	.55	7/8	1.12	1.626	.372
329HB-8-12N	White Nylon	1/2	3/4	.55	1-1/8	1.12	1.636	.372
329HB-8-12PP	Black Polypropylene	1/2	3/4	.55	1-1/8	1.12	1.636	.372
329HB-10-6N	White Nylon	5/8	3/8	.64	11/16	1.17	1.436	.406
329HB-10-8N	White Nylon	5/8	1/2	.64	7/8	1.17	1.626	.465
329HB-10-8PP	Black Polypropylene	5/8	1/2	.64	7/8	1.17	1.626	.465
329HB-10-12N	White Nylon	5/8	3/4	.64	1-1/8	1.17	1.636	.465
329HB-10-12PP	Black Polypropylene	5/8	3/4	.64	1-1/8	1.17	1.636	.465
329HB-12-8N	White Nylon	3/4	1/2	.79	7/8	1.24	1.626	.606
329HB-12-8PP	Black Polypropylene	3/4	1/2	.79	7/8	1.24	1.626	.606
329HB-12-12N	White Nylon	3/4	3/4	.79	1-1/8	1.24	1.626	.606
329HB-12-12PP	Black Polypropylene	3/4	3/4	.79	1-1/8	1.265	1.626	.606

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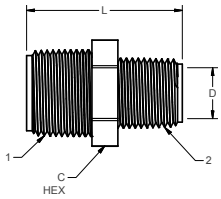




Hex Plug 318P

Part No.	Material	NPT Pipe Thd.	C Hex	L
318P-2N	White Nylon	0.125	7/16	.660
318P-2PP	Black Polypropylene	1/8	7/16	.660
318P-4N	White Nylon	1/4	9/16	.860
318P-4PP	Black Polypropylene	1/4	9/16	.880
318P-6N	White Nylon	3/8	11/16	.905
318P-6PP	Black Polypropylene	3/8	11/16	.890
318P-8N	White Nylon	1/2	7/8	1.094
318P-8PP	Black Polypropylene	1/2	7/8	1.094
318P-12N	White Nylon	3/4	1-1/8	1.115
318P-12PP	Black Polypropylene	3/4	1-1/8	1.115



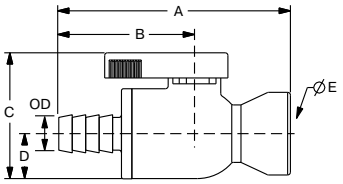


Hex Nipple 316P

Part No.	Material	NPT Pipe Thd. Side 1	NPT Pipe Thd. Side 2	C Hex	L	Flow Dia. D
316P-2N	White Nylon	0.125	0.125	7/16	1.062	.187
316P-2PP	Black Polypropylene	0.125	0.125	7/16	1.062	.187
316P-4-2N	White Nylon	0.25	0.125	9/16	1.281	.187
316P-4-2PP	Black Polypropylene	0.25	0.125	9/16	1.281	.187
316P-4N	White Nylon	0.25	0.25	9/16	1.469	.281
316P-4PP	Black Polypropylene	0.25	0.25	9/16	1.469	.281
316P-6-2N	White Nylon	0.375	0.125	11/16	1.332	.187
316P-6-2PP	Black Polypropylene	0.375	0.125	11/16	1.332	.187
316P-6-4N	White Nylon	0.25	0.25	11/16	1.488	.281
316P-6-4PP	Black Polypropylene	0.25	0.25	11/16	1.488	.281
316P-6N	White Nylon	0.375	0.375	11/16	1.500	.406
316P-6PP	Black Polypropylene	0.375	0.375	11/16	1.500	.406
316P-8-2N	White Nylon	0.5	0.125	7/8	1.485	.187
316P-8-2PP	Black Polypropylene	0.5	0.125	0.875	1.485	.187
316P-8-4N	White Nylon	0.5	0.25	0.875	1.687	.281
316P-8-4PP	Black Polypropylene	0.5	0.25	0.875	1.687	.281
316P-8-6N	White Nylon	0.5	0.375	0.875	1.687	.406
316P-8-6PP	Black Polypropylene	0.5	0.375	0.875	1.687	.406
316P-8N	White Nylon	0.5	0.5	0.875	1.875	.618
316P-8PP	Black Polypropylene	0.5	0.5	0.875	1.875	.618
316P-12-8N	White Nylon	0.75	0.5	1-1/8	1.891	.618
316P-12-8PP	Black Polypropylene	0.75	0.5	1-1/8	1.891	.618
316P-12N	White Nylon	0.75	0.75	1-1/8	1.932	.750
316P-12PP	Black Polypropylene	0.75	0.75	1-1/8	1.932	.750

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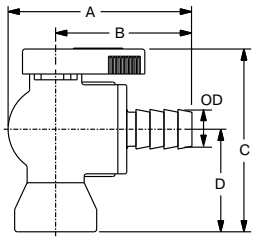




VFC - Valve Barbed Female Connector

Part No.	Hose ID	NPTF Thd.	OD	A	B	C	D	ØE Thru Hole Min.
PBPP4VFC4	1/4	1/4	.31	2.76	1.60	1.41	.50	.15
PBPP6VFC6	3/8	3/8	.43	2.79	1.60	1.41	.50	.19

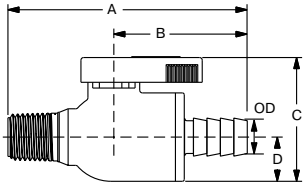




VFE - Valve Barbed Female Elbow

Part No.	Hose ID	NPTF Thd.	OD	A	B	C	D	ØE Thru Hole Min.
PBPP4VFE4	1/4	1/4	.31	2.13	1.60	2.05	1.15	.15
PBPP6VFE4	3/8	1/4	.43	2.13	1.60	2.05	1.15	.15
PBPP6VFE6	3/8	3/8	.43	2.13	1.60	2.18	1.28	.19



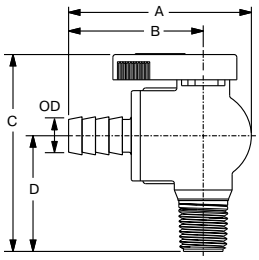


VMC - Valve Barbed Male Connector

Part No.	Hose ID	NPTF Thd.	OD	A	B	C	D	ØE Thru Hole Min.
PBPP4VMC4	1/4	1/4	.31	2.79	1.60	1.42	.50	.15
PBPP6VMC6	3/8	3/8	.43	2.79	1.60	1.42	.50	.19

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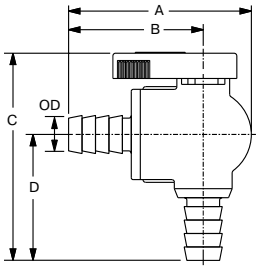




VME - Valve Barbed Male Elbow

Part No.	Hose ID	NPTF Thd.	OD	A	B	C	D	ØE Thru Hole Min.
PBPP4VME4	1/4	1/4	.31	2.13	1.60	2.18	1.28	.15
PBPP6VME6	3/8	3/8	.43	2.13	1.60	2.18	1.28	.19

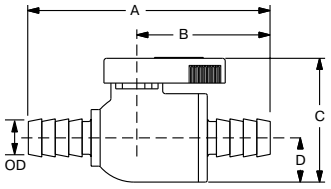




VEU - Parbarb Elbow Ball Valve

Part No.	Hose ID	OD	A	B	C	D	ØE Thru Hole Min.
PBPP4VEU4	1/4	.31	2.13	1.57	2.32	1.40	.15
PBPP6VEU6	3/8	.43	2.13	1.60	2.32	1.40	.25
PBPP8VEU8	1/2	.55	2.13	1.60	2.32	1.40	.25



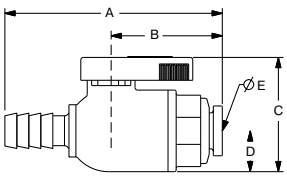


VUC - Valve Barbed Union Connector

Part No.	Hose ID	Tube OD	OD	A	B	C	D
PBPP4VUC4	1/4	.31	2.91	1.60	1.42	.50	.15
PBPP6VUC6	3/8	.43	2.91	1.60	1.42	.50	.19
PBPP8VUC8	1/2	.55	2.91	1.60	1.42	.50	.25

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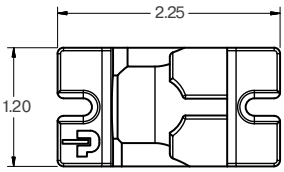
VUCPB - Valve Union Connector Barbed x Tube

Part No.	Hose ID	Tube OD	OD	A	B	C	D	ØE Thru Hole Min.
LFPP4VUCPB4	1/4	1/4	.31	2.40	1.08	1.42	.50	.15
LFPP6VUCPB6	3/8	3/8	.43	2.63	1.32	1.42	.50	.19

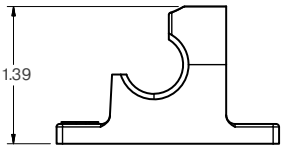
BVC Ball Valve Clip

BV-Clip Shown below holding VUCPB and VME











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CARTRIDGES

Carstick® Cartridges, LIQUIfit® Cartridges, TrueSeal™ Cartridges, PLM/PLS Cartridges, SAE Encapsulated Cartridges

Parker

CARTRIDGES



Parker has developed a range of cartridges guaranteeing the integrity of the sealing system before and after assembly in non-threaded cavities. The compact design of the one-piece cartridges enables automation of your manufacturing process and improves the reliability of your system.

Product Features:

- Self-centering of the cartridge in the cavity
- Push-in connection
- Designed for automation assembly process
- SAE & NSF cartridges available

Markets:

- Industrial
- Pneumatic
- Filtration
- Semi-Conductor
- Life Science
- Automation
- Heavy Duty Truck

Applications:

- Air
- Water
- Beverage Dispensing
- Cab Controls
- Packaging
- Labeling
- Vacuum

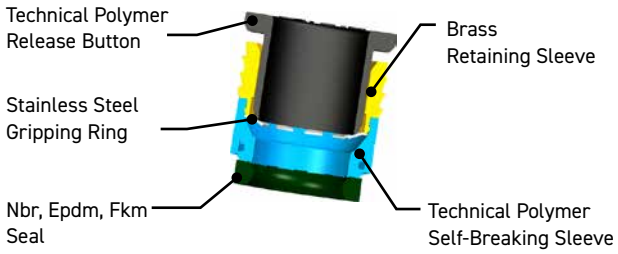
Specifications:

	Seals	Pressure	Temperature
Carstick	Nitrile	Up to 290 PSI (20 bar)	-4˚ to +175˚ F (-20° to +79.4° C)
PLM/PLS	FKM	Up to 435 PSI (30 bar)	-13˚ to +302˚ F (-25° to +150° C)
LIQUIfit	EPDM	Up to 230 PSI (15.9 bar)	35˚ to +200˚ F (+1.7° to +93.3° C)
TrueSeal	EPDM	Up to 150 PSI (10.3 bar)	-20˚ to +180˚ F (-28.9° to +82.2° C)
PTC	Nitrile	Up to 250 PSI (17.2 bar)	-40˚ to +200˚ F (-40° to +93.3° C)

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CARSTICK® CARTRIDGES

Component Materials

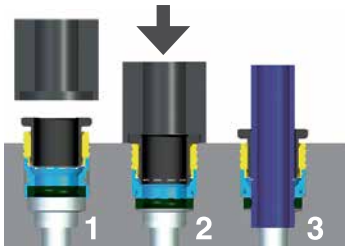


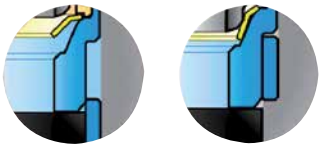
Installation

1. Self-centering of the cartridge in the cavity.
2. The seal protection is broken. The seal slides into the cavity. The cartridge is in place.
3. Tube connection.

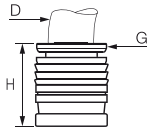
Assembly Tool: For details on the assembly tool, please contact us.

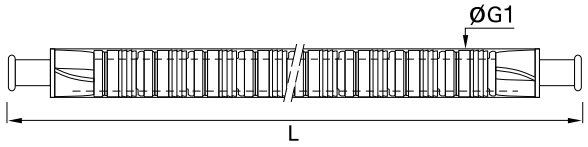












3100 Carstick® Cartridge Brass

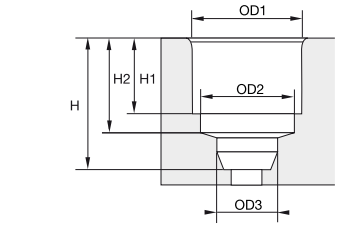
Part No.	OD	G	G1	H	L	kg
3100 04 00	4	8	11	10	554	.001
3100 06 00	6	10	14.5	11.5	629	.002
3100 08 00	8	13	15	15	794	.002
3100 10 00	10	15.5	19.5	17	930	.005
3100 12 00	12	19.5	21	19.5	1038	.010
3100 53 00 99	1/8	7	10	9	508	.002
3100 56 00 99	1/4	10.5	14.5	12	600	.003
3100 60 00 99	3/8	15.5	19	16.5	930	.006

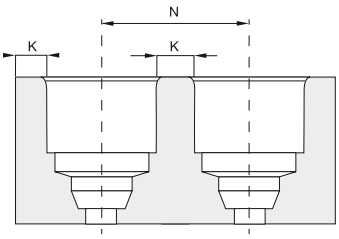
50 cartridges per Carstick®

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Carstick® Cavity Dimensions

Please consult us for detailed drawings of cavity dimensions and tolerances. All our dimensions are in millimeters.





Carstick® & Quick Fitting Metric

Cavity	OD3	H	H1	H2
4	4.1	10	6	8.15
6	6.1	12	7.5	9.65
8	8.15	15.5	9.9	12.45
10	10.25	19	11.7	14.35
12	12.17	22	13.9	16.75

Carstick® Inch

Cavity	OD3	H	H1	H2
1/8	3.25	7.45	5.3	9.5
5/32 *	4.1	8.15	6	10
1/4	6.45	10.15	8	12.5
5/16 *	8.15	12.45	9.9	15.5
3/8	9.65	14.35	11.7	19
1/2	12.8	26.1	16.9	20.1

Polyamide Cavity

Cavity	OD1	OD2	N*	K
4	8.25	7.05	9.8	1.5
6	10.2	9.15	12.2	2
8	12.15	10.85	14.2	2
10	14.8	13.2	16.8	2
12	17.5	15.5	20	2.5

Cavity	OD1	OD2	N	K
1/8	7.05	6.02	8.6	1.5
5/32*	8.25	7.05	9.75	1.5
1/4	10.55	9.35	12.6	2
5/16*	12.15	10.85	14.2	2
3/8	14.8	13.1	16.8	2
1/2	19.86	17.82	24.85	2.5

Aluminum Cavity

Cavity	OD1	OD2	N*	K
4	8.25	7.5	11.5	3
6	10.3	9.15	13.5	3
8	12.2	10.85	15.2	3
10	15.05	13.2	17.1	2
12	17.5	15.5	20	2.5

Cavity	OD1	OD2	N	K
1/8	7.1	6.2	8.6	1.5
5/32*	8.25	7.05	11.25	3
¼	10.6	9.35	12.65	2
5/16*	12.2	10.85	15.2	3
3/8	15.05	13.1	17.1	2

Brass Cavity

Cavity	OD1	OD2	N*	K
4	8.25	7.05	10.25	2
6	10.25	9.1	12.25	2
8	12.2	10.85	14.25	2
10	15.05	13.2	17.1	2
12	17.65	15.5	20	2.5

Cavity	OD1	OD2	N	K
5/16*	12/2	10.85	14.25	2
3/8	10.05	13.1	17.1	2

*5/32"=4mm and 5/16"=8mm

* Carstick®

Cavity	OD1	OD2	N	K
1/8	7.1	6.2	8.6	1.5
5/32*	8.25	7.05	10.25	2
¼	10.6	9.35	12.65	2

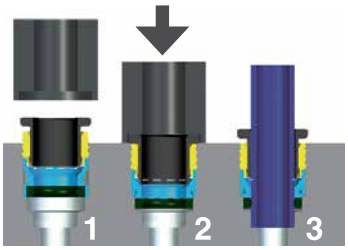
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LIQUIFIT® CARTRIDGES

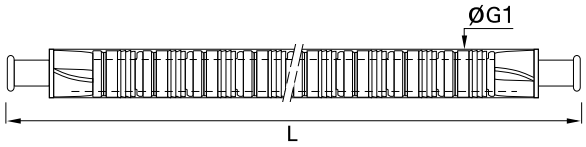
Installation

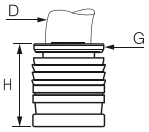
1. Self-centering of the cartridge in the cavity.
2. The seal protection is broken. The seal slides into the cavity. The cartridge is in place.
3. Tube connection.

Assembly Tool: For details on the assembly tool, please contact us.







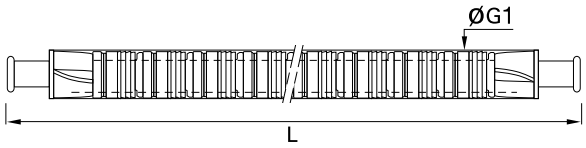


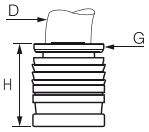


6300 LIQUIfit Cartridge Brass Metric

Part No.	OD	G	G1	H	L	kg
6300 04 00	4	8	11	10	554	.002
6300 06 00	6	10	14.5	11.5	629	.002
6300 08 00	8	13	15	15	794	.003
6300 10 00	10	15.5	19.5	17	930	.005
6300 12 00	12	18.5	21	19.5	1038	.010

50 cartridges per Carstick®







6300 LIQUIfit Cartridge Brass (in)ch

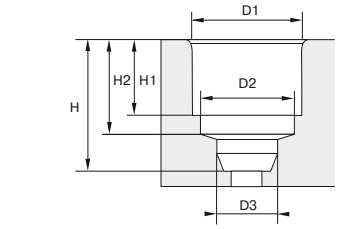
Part No.	OD	G	G1	H	L	kg
6300 56 00	1/4	10.5	14.5	12.5	600	.002
6300 60 00	3/8	15.5	19	17	930	.005
6300 62 00	1/2	22	25	23	1038	.011

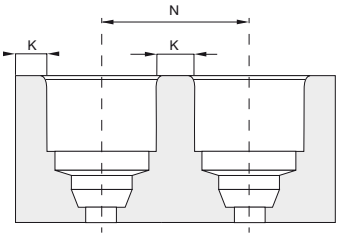
50 cartridges per Carstick®
5/32" (4mm) and 5/16" (8mm) also available

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

LIQUIfit® Carstick® Cavity Dimensions

Please consult us for detailed drawings of cavity dimensions and tolerances. All our dimensions are in millimeters.





LIQUIfit® Carstick® Metric

Cavity	OD3	H	H1	H2
4	4.1	10	6	8.15
6	6.1	12	7.5	9.65
8	8.15	15.5	9.9	12.45
10	10.25	19	11.7	14.35
12	12.17	22	13.9	16.75

LIQUIfit® Carstick® Inch

Cavity	OD3	H	H1	H2
1/8	3.25	7.45	5.3	9.5
5/32*	4.1	8.15	6	10
1/4	6.45	10.15	8	12.5
5/16*	8.15	12.45	9.9	15.5
3/8	9.65	14.35	11.7	19

Polyamide Cavity

Cavity	OD1	OD2	N*	K
4	8.25	7.05	9.8	1.5
6	10.2	9.15	12.2	2
8	12.15	10.85	14.2	2
10	14.8	13.2	16.8	2
12	17.5	15.5	20	2.5

Cavity	OD1	OD2	N	K
1/8	7.05	6.02	8.6	1.5
5/32*	8.25	7.05	9.75	1.5
1/4	10.55	9.35	12.6	2
5/16*	12.15	10.85	14.2	2
3/8	14.8	13.1	16.8	2

Aluminum Cavity

Cavity	OD1	OD2	N*	K
4	8.25	7.5	11.5	3
6	10.3	9.15	13.5	3
8	12.2	10.85	15.2	3
10	15.05	13.2	17.1	2
12	17.5	15.5	20	2.5

Cavity	OD1	OD2	N	K
1/8	7.1	6.2	8.6	1.5
5/32*	8.25	7.05	11.25	3
1/4	10.6	9.35	12.65	2
5/16*	12.2	10.85	15.2	3
3/8	15.05	13.1	17.1	2

Brass Cavity

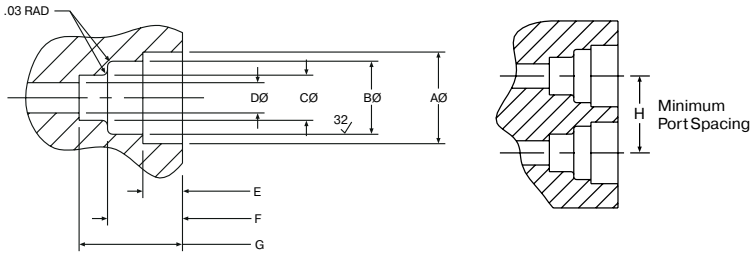
Cavity	OD1	OD2	N*	K
4	8.25	7.05	10.25	2
6	10.25	9.1	12.25	2
8	12.2	10.85	14.25	2
10	15.05	13.2	17.1	2
12	17.65	15.5	20	2.5

Cavity	OD1	OD2	N	K
1/8	7.1	6.2	8.6	1.5
5/32*	8.25	7.05	10.25	2
1/4	10.6	9.35	12.65	2
5/16*	12.2	10.85	14.25	2
3/8	10.05	13.1	17.1	2

*5/32"=4mm and 5/16"=8mm

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TRUESEAL™ CARTRIDGES



Parker TrueSeal™ Cartridge Inserts:

Allow you to machine or mold a tube connection into your equipment or components. By using cartridge inserts, you will reduce your material and assembly costs, reduce potential leak paths, and give your equipment a new, clean profile by eliminating the need for threaded connections. TSC Cartridge Inserts consist of 1 o-ring, 1 cartridge, and 1 collet.

*Cartridge inserts are rated at 150 PSI in ports dimensioned as above and having Noryl as the receiving material. Other materials may have different ratings and require different port dimensions. Consult the Fluid System Connectors Division when using polypropylene, unfilled polypropylene, ABS or Nylon.

Assembly Instructions:

1. Machine or mold the receiving orifice as per the above dimensions.
2. Place the cartridge insert squarely onto the prepared port opening making sure that the barbs of the cartridge are going into the hole and the lettering on the face of the cartridge is visible.
3. Using a rubber mallet or press, insert the cartridge into the first gland orifice until its face is flush with the top surface of the port.
4. Insert the o-ring into the cartridge and seat it evenly into the second gland orifice.
5. Insert the collet into the cartridge opening.
6. Insert tubing.



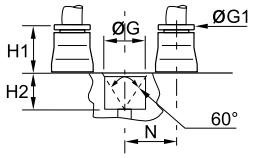
TSC - Cartridge (in)sert

Part Number with EPDM SeaL	Nom. Tube O.D.	A* Diameter ±002	B Diameter ±003	C Diameter ±003	D Diameter maximum	E Depth ±002	F Depth ±002	G Depth ±002	H* Center Line of Ports Minimum
ATSC4-MG	1/4	.528	.421	.260	.19	.230	.435	.600	.670
ATSC6-MG	3/8	.632	.545	.385	.31	.280	.455	.705	.790
ATSC8-MG	1/2	.774	.668	.510	.41	.315	.510	.810	1.250

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PLM/PLS CARTRIDGES

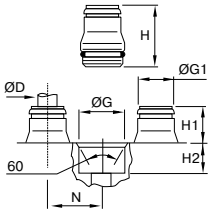




PLMC Cartridge

Part No.	Tube Size (mm)	g + .1 - 0	H1 (mm)	H2 (mm)	N (mm)
PLMC-4M	4	10.00	9.00	8.50	11.00
PLMC-6M	6	12.00	11.00	8.50	13.50
PLMC-8M	8	15.00	12.50	8.50	16.00
PLMC-10M	10	17.50	14.50	10.50	20.00
PLMC-12M	12	19.50	15.00	10.50	22.50





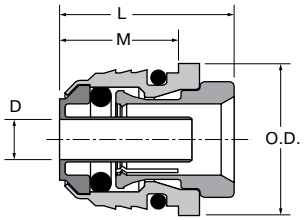
PLSC Cartridge - Metric

Part No.	Tube Size (mm)	g + .1 - 0 (mm)	G1 (mm)	H (mm)	H1 (mm)	H2 (mm)	N (mm)
PLSC-4M	4	9.80	8	18.00	9.50	8.50	11.00
PLSC-6M	6	12.10	10	20.00	11.50	8.50	13.50
PLSC-8M	8	14.80	13	22.00	13.50	8.50	16.00
PLSC-10M	10	17.50	15	25.50	15.00	10.50	20.00

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SAE ENCAPSULATED CARTRIDGES





PTCCE SAE Encapsulated Cartridge

Part No.	Tube Size	Cavity Size ±.002	L	M	OD	Flow Dia. D
PTCCE-4	1/4	.504	.63	.43	.56	.13
PTCCE-4-8	1/4	.775	.63	.50	.88	.13
PTCCE-6	3/8	.65	.69	.48	.73	.22
PTCCE-6-8	3/8	.775	.71	.50	.88	.22
PTCCE-8	1/2	.775	.91	.69	.88	.34

Nominal Tube OD (in)	D1 (mm) ±.05	D1 (in) ±.002	L1 (mm) MIN	L1 (in) MIN	R1 (mm) ±.05	R1 (in) ±.002	R2 (mm) ±.05	R2 (in) ±.002	C1 (mm) ±.05	C1 (in) ±.002
1/4	12.8	.504	12.7	.5	.5	.02	.5	.02	.5	.02
3/8	16.5	.65	16.5	.65	.5	.02	.5	.02	.5	.02
1/2	19.7	.775	19.8	.78	.5	.02	.5	.02	.5	.02
5/8	23.5	.925	22.4	.88	.8	.03	.5	.02	.8	.03

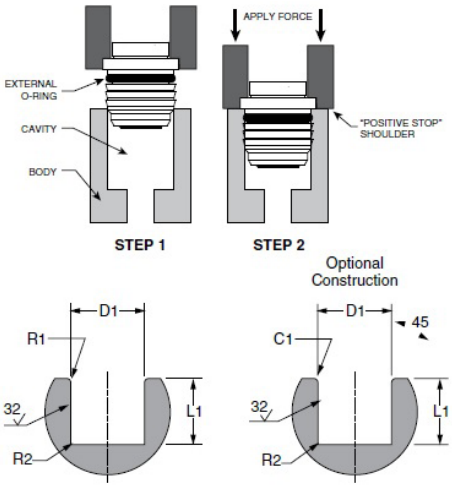
Cavity material is to be 6061 T6 aluminum

Cavity Specifications

Dimensions are per the SAE Standard J2494-4. The SAE Encapsulated Cartridge is thoroughly tested to meet or exceed the performance requirements of D.O.T. FMVSS 571.106 and SAE J1131 when used in a 6061-T6 aluminum cavity per SAE J2494-4. Cavity dimensions specified by SAE J2494-4 need to be adjusted slightly for optimum performance in material other than 6061-T6.

Installation

Apply force evenly over the top surface of the cartridge body until the cartridge shoulder bottoms out on the top of the cavity. The amount of force required will vary depending on the cartridge size and the material of the cavity.



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Notes



TRANSPORTATION
PUSH-TO-CONNECT

PTC & PTCR Composite Fittings, PTC Brass Fittings, Metric Prestomatic Fittings, Parker Safe Lock

Parker

PTC & PTCR COMPOSITE FITTINGS



Parker's PTC & PTCR fittings are composite push-to-connect fittings that meet SAE and D.O.T. specifications. Designed for all D.O.T truck and trailer applications, Parker PTC fittings reduce assembly time versus compression style fittings.

Product Features:

- Brass Collet
- HNBR O-ring
- Stainless Steel Tube Support or Brass
- Meets D.O.T. FMVSS571.106
- Meets SAE J2494-3
- Composite Body – Strong, Lightweight, Compact and Impact Resistant
- Plug-in configurations

Markets:

- Heavy Duty Truck
- Trailer
- Mobile

Applications:

- Air Brakes
- Air Tanks
- Air Ride
- Sliders
- Tire Inflation
- Primary & Secondary Air Lines
- Cab Controls

Specifications:

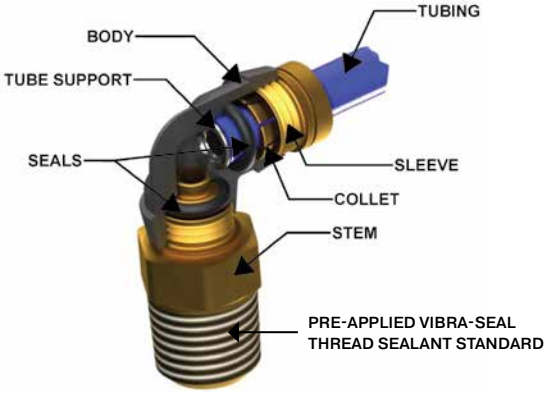
Pressure Range	Up to 250 PSI (17.2 bar)
Temperature Range	-50° to +230° F (-45.5° to +110° C)

Compatible Tubing:

- SAE J844 Type A & B nylon tubing

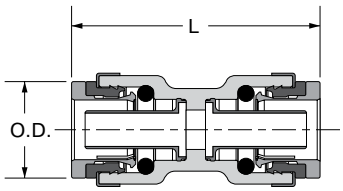
Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.



WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

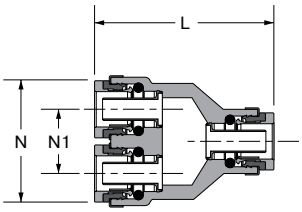




Union 32PTC

Part No.	TUBE SIZE	TUBE SIZE 2	L	O.D.
32PTC-4	1/4	1/4	1.33	.55
32PTC-6	3/8	3/8	1.65	.74
32PTC-8	1/2	1/2	1.86	.91
32PTC-10	5/8	5/8	2.15	1.05
32PTC-12	3/4	3/4	2.50	1.21
32PTC-10-12	5/8	3/4	2.91	1.21
32PTC-4-6M	1/4	6MM		.55
32PTC-6-4	3/8	1/4	1.57	.74
32PTC-8-6	1/2	3/8	1.95	.91



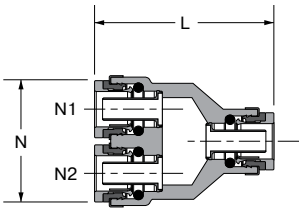


Union Y 362PTC

Part No.	Tube Size	L	N	N1
362PTC-4	1/4	1.52	1.06	.50
362PTC-6	3/8	2.03	1.43	.68
362PTC-8	1/2	2.20	1.74	.84

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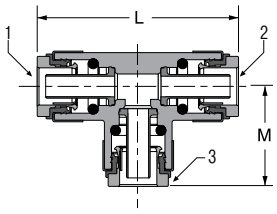




Unequal Union Y 362PTC

Part No.	Tube Size	L	N	N1	N2
362PTC-4-6	3/8	1.97	1.43	1/4	1/4
362PTC-4-6-6	3/8	2.03	1.43	1/4	3/8
362PTC-4-6-8	1/2	2.14	1.43	1/4	3/8
362PTC-6-4	1/4	2.10	1.43	3/8	3/8
362PTC-6-8-8	1/2	2.20	1.75	1/2	3/8
362PTC-8-4-8	1/2	2.20	1.74	1/2	1/4

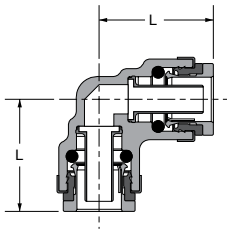




Union Tee 364PTC

Part No.	Tube Size 1	Tube Size 2	Tube Size 3	L	M
364PTC-4	1/4	1/4	1/4	1.52	.76
364PTC-6	3/8	3/8	3/8	2.03	1.01
364PTC-8	1/2	1/2	1/2	2.29	1.15
364PTC-10	5/8	5/8	5/8	2.88	1.44
364PTC-6-6-4	3/8	3/8	1/4	2.03	.87
364PTC-6-6-5/32	3/8	3/8	5/32	2.02	1.01
364PTC-4-4-6	1/4	1/4	3/8	1.91	1.01
364PTC-4-6-4	1/4	3/8	1/4	1.77	.87



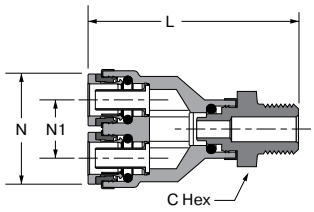


Union Elbow 365PTC

Part No.	Tube Size	L
365PTC-4	1/4	.76
365PTC-6	3/8	1.01
365PTC-8	1/2	1.13

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

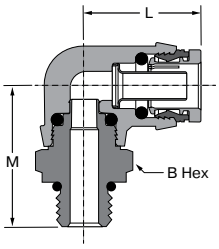




Union Y Male Connector VS368PTCR

Part No.	Tube Size	Pipe Thread	L	C Hex	N	N1
VS368PTCR-4-2	1/4	1/8	1.96	9/16	1.03	.50
VS368PTCR-4-4	1/4	1/4	2.12	9/16	1.03	.50
VS368PTCR-6-4	3/8	1/4	2.56	3/4	1.41	.68





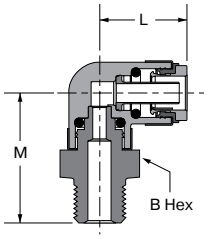
Male Elbow Swivel 90° Metric Straight Thread 369PTCR

Part No.	Tube Size	Thread*	B Hex	L	M
369PTCR-4-MA12	1/4	M12X1.5	11/16	0.74	1.13
369PTCR-4-MA16	1/4	M16X1.5	7/8	0.74	1.16
369PTCR-4-MA22	1/4	M22X1.5	1 1/16	0.74	1.28
369PTCR-6-MA12	3/8	M12X1.5	3/4	1.01	1.22
369PTCR-6-MA16	3/8	M16X1.5	7/8	1.01	1.29
369PTCR-6-MA22	3/8	M22X1.5	1 1/16	1.01	1.28
369PTCR-8-MA12	1/2	M12X1.5	15/16	1.13	1.39
369PTCR-8-MA16	1/2	M16X1.5	15/16	1.13	1.41
369PTCR-8-MA22	1/2	M22X1.5	1 1/16	1.13	1.4
369PTCR-10-MA12	5/8	M12X1.5	1 1/16	1.36	1.63
369PTCR-10-MA16	5/8	M16X1.5	1 1/16	1.36	1.58
369PTCR-10-MA22	5/8	M22X1.5	1 1/16	1.36	1.57
369PTCR-12-MA22	3/4	M22X1.5	1 3/16	1.47	1.84

*Per ISO 4039

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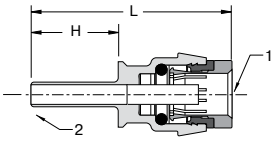




Male Elbow Swivel 90° VS369PTCR

Part No.	Tube Size	Pipe Thread	B Hex	L	M
VS369PTCR-4-2	1/4	1/8	9/16	.74	1.00
VS369PTCR-4-4	1/4	1/4	9/16	.74	1.14
VS369PTCR-4-6	1/4	3/8	11/16	.74	1.14
VS369PTCR-4-8	1/4	1/2	7/8	.74	1.35
VS369PTCR-6-2	3/8	1/8	3/4	1.01	1.24
VS369PTCR-6-4	3/8	1/4	3/4	1.01	1.45
VS369PTCR-6-6	3/8	3/8	3/4	1.01	1.28
VS369PTCR-6-8	3/8	1/2	7/8	1.01	1.49
VS369PTCR-8-4	1/2	1/4	15/16	1.13	1.42
VS369PTCR-8-6	1/2	3/8	15/16	1.13	1.42
VS369PTCR-8-8	1/2	1/2	15/16	1.13	1.61
VS369PTCR-10-6	5/8	3/8	1-1/16	1.36	1.61
VS369PTCR-10-8	5/8	1/2	1-1/16	1.36	1.80
VS369PTCR-12-8	3/4	1/2	1-3/16	1.47	1.91
VS369PTCR-12-12	3/4	3/4	1-3/16	1.47	1.87



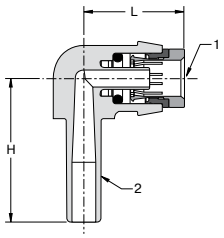


Plug-In Adapter 37PTCSP

Part No.	Tube Size 1	Tube Size 2	H	L
37PTCSP-4-6	1/4	3/8	.90	1.71
37PTCSP-6-4	3/8	1/4	.76	1.66
37PTCSP-10-8	5/8	1/2	1.10	2.44

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

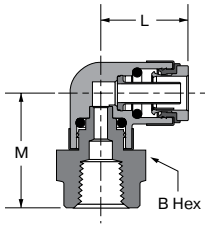




Plug-In Elbow 369PTCSP

Part No.	Tube Size 1	Tube Size 2	H	L
369PTCSP-4-4	1/4	1/4	1.06	.74
369PTCSP-4-6	1/4	3/8	1.20	.74
369PTCSP-6-4	3/8	1/4	1.18	.96
369PTCSP-6-6	3/8	3/8	1.32	0.96
369PTCSP-6-8	3/8	1/2	1.52	.96
369PTCSP-8-4	1/2	1/4	1.16	1.12
369PTCSP-8-6	1/2	3/8	1.30	1.12
369PTCSP-8-8	1/2	1/2	1.50	1.12
369PTCSP-10-8	5/8	1/2	1.57	1.36
369PTC-10-10	5/8	5/8	1.75	1.36



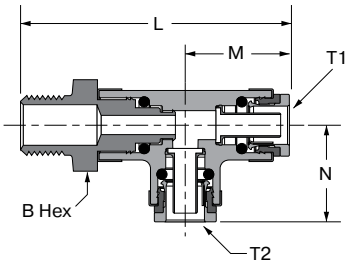


Female Elbow Swivel 90° 370PTCR

Part No.	Tube Size	Pipe Thread	B Hex	L	M
370PTCR-4-2	1/4	1/8	9/16	.74	.94
370PTCR-4-4	1/4	1/4	11/16	.74	1.20
370PTCR-6-2	3/8	1/8	3/4	1.01	.75
370PTCR-6-4	3/8	1/4	3/4	1.01	1.04
370PTCR-6-6	3/8	3/8	3/4	1.01	1.19
370PTCR-8-6	1/2	3/8	3/4	1.13	1.24
370PTCR-8-8	1/2	1/2	15/16	1.13	1.49

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

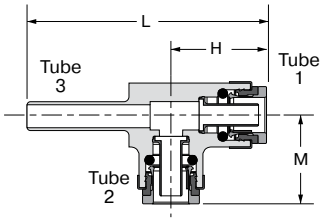




Male Run Tee Swivel VS371PTCR

Part No.	Tube Size 1	Tube Size 2	Pipe Thread	B Hex	L	M	N
VS371PTCR-4-2	1/4	1/4	1/8	9/16	1.80	.76	.76
VS371PTCR-4-4	1/4	1/4	1/4	9/16	1.94	.76	.76
VS371PTCR-6-4	3/8	3/8	1/4	3/4	2.25	.1.01	.1.01
VS371PTCR-6-6	3/8	3/8	3/8	3/4	2.25	.1.01	.1.01
VS371PTCR-8-4	1/2	1/2	1/4	15/16	2.59	1.15	1.15
VS371PTCR-8-6	1/2	1/2	3/8	15/16	2.59	1.15	1.15
VS371PTCR-8-8	1/2	1/2	1/2	15/16	2.78	1.15	1.15
371PTCR-4-6	1/4	1/4	3/8	11/16	1.94	.76	.76
371PTCR-8-4-8	1/2	1/4	1/2	15/16	2.78	1.15	1.23
371PTCR-4-6-4	1/4	3/8	1/4	3/4	2.25	1.01	.96



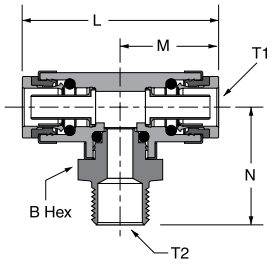


Plug-In Run Tee 371PTCSP

Part No.	Tube Size 1	Tube Size 2	Tube Size 3	H	L	M
371PTCSP-4-4	1/4	1/4	1/4	.78	1.84	.76
371PTCSP-4-6	1/4	1/4	3/8	.78	1.98	.76
371PTCSP-6-4	3/8	3/8	1/4	1.01	2.11	1.01
371PTCSP-6-6	3/8	3/8	3/8	1.01	2.25	1.01
371PTCSP-6-4-6	3/8	1/4	3/8	0.76	2.24	1.01
371PTCSP-8-4-8	1/2	1/4	1/2	0.96	2.58	1.15

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

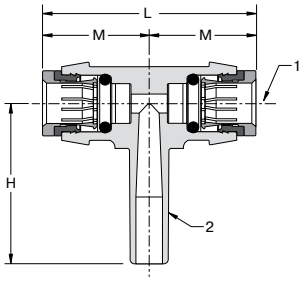




Male Branch Tee Swivel VS372PTCR

Part No.	Tube Size	Pipe Thread	B Hex	L	M	N
VS372PTCR-4-2	1/4	1/8	1/8	1.52	.75	1.04
VS372PTCR-4-4	1/4	1/4	9/16	1.52	.76	1.18
VS372PTCR-4-6	1/4	3/8	11/16	1.52	.76	1.18
VS372PTCR-6-2	3/8	1/8	3/4	2.03	1.01	1.16
VS372PTCR-6-4	3/8	1/4	1/4	2.03	1.01	1.27
VS372PTCR-6-6	3/8	3/8	3/4	2.02	1.01	1.27
VS372PTCR-6-8	3/8	1/2	7/8	2.03	1.01	1.45
VS372PTCR-8-4	1/2	1/4	1/4	2.30	1.15	1.42
VS372PTCR-8-6	1/2	3/8	3/8	2.30	1.15	1.42
VS372PTCR-8-8	1/2	1/2	1/2	2.30	1.15	1.61
VS372PTCR-10-8	5/8	1/2	1 1/16	2.88	1.44	1.80
VS372PTCR-4-6-4	1/4-3/8	1/4	3/4	1.91	.90/1.01	1.23
VS372PTCR-6-4-6	3/8-1/4	3/8	3/4	1.91	.90/1.01	1.23
VS372PTCR-6-8-8	3/8-1/2	1/2	15/16	2.38	1.15	1.61



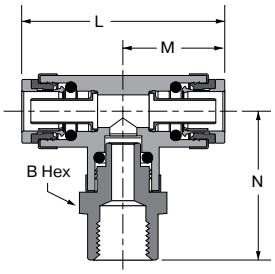


Plug-In Branch Tee 372PTCSP

Part No.	Tube Size 1	Tube Size 2	H	L	M
372PTCSP-4-4	1/4	1/4	1.05	1.48	.74
372PTCSP-4-6	1/4	3/8	1.19	1.48	.74
372PTCSP-6-4	3/8	1/4	1.18	2.02	1.01
372PTCSP-6-6	3/8	3/8	1.32	2.02	1.01

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

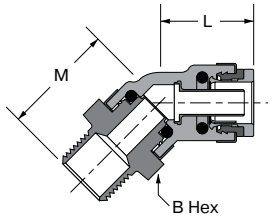




Female Branch Tee Swivel 377PTCR

Part No.	Tube Size	Pipe Thread	B Hex	L	M	N
377PTCR-4-4	1/4	1/4	3/4	1.48	.74	1.27
377PTCR-6-2	3/8	1/8	3/4	2.03	1.01	.78
377PTCR-6-4	3/8	1/4	3/4	2.03	1.01	1.07
377PTCR-10-4	5/8	1/4	1 1/16	2.88	1.44	1.23



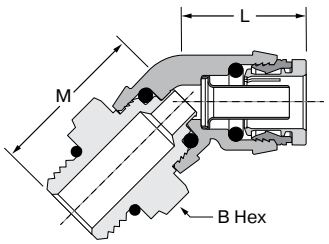


Male Elbow Swivel 45° VS379PTCR

Part No.	Tube Size	Pipe Thread	B Hex	L	M
VS379PTCR-4-2	1/4	1/8	9/16	.68	.91
VS379PTCR-4-4	1/4	1/4	9/16	.68	1.05
VS379PTCR-4-6	1/4	3/8	9/16	.68	1.05
VS379PTCR-6-2	3/8	1/8	3/4	.89	.97
VS379PTCR-6-4	3/8	1/4	3/4	.89	1.10
VS379PTCR-6-6	3/8	3/8	3/4	.89	1.11
VS379PTCR-6-8	3/8	1/2	7/8	.89	1.32
VS379PTCR-8-4	1/2	1/4	15/16	1.03	1.22
VS379PTCR-8-6	1/2	3/8	15/16	1.03	1.24
VS379PTCR-8-8	1/2	1/2	15/16	1.03	1.41
VS379PTCR-10-6	5/8	3/8	1-1/16	1.21	1.43
VS379PTCR-10-8	5/8	1/2	1-1/16	1.21	1.62
VS379PTCR-12-8	3/4	1/2	1-3/16	1.29	1.72

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov





Male Elbow Swivel 45˚ Metric Straight Thread 379PTCR

Part No.	Tube Size	Thread*	B Hex	L	M
379PTCR-4-MA12	1/4	M12 X 1.5	1 1/16	0.68	1.05
379PTCR-4-MA16	1/4	M16 X 1.5	7/8	0.68	1.07
379PTCR-4-MA22	1/4	M22 X 1.5	1 1/16	0.68	1.19
379PTCR-6-MA12	3/8	M12 X 1.5	3/4	0.89	1.09
379PTCR-6-MA16	3/8	M16 X 1.5	7/8	0.89	1.16
379PTCR-6-MA22	3/8	M22 X 1.5	1 1/16	0.89	1.16
379PTCR-8-MA12	1/2	M12 X 1.5	15/16	1.03	1.21
379PTCR-8-MA16	1/2	M16 X 1.5	15/16	1.03	1.21
379PTCR-8-MA22	1/2	M22 X 1.5	1 1/16	1.03	1.21
379PTCR-10-MA12	5/8	M12 X 1.5	1 1/16	1.21	1.45
379PTCR-10-MA16	5/8	M16 X 1.5	1 1/16	1.21	1.4
379PTCR-10-MA22	5/8	M22 X 1.5	1 1/16	1.21	1.4

*Per ISO 4039

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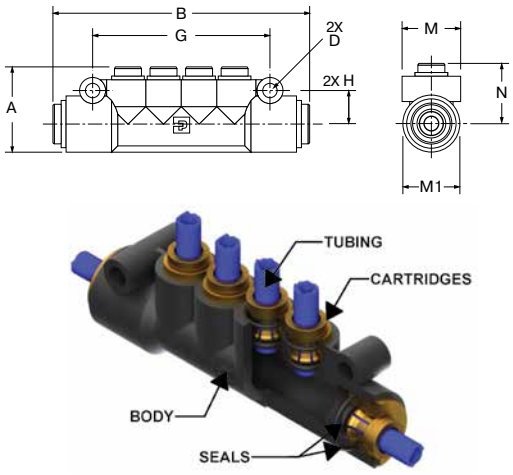


Presto Manifold 24M

Part No.	Tube O.D. Inlet	Tube O.D. Outlet	A	B	D	G	H	M	M1	N
24M-4-4	1/4	1/4	1.33	4.15	.21	2.75	.53	.90	.88	.89
24M-6-4	3/8	1/4	1.33	3.99	.21	2.75	.53	.90	.88	.89
24M-6-6	3/8	3/8	1.65	6.49	.22	4.55	.60	1.02	1.02	1.33
24M-8-8	1/2	1/2	1.65	6.49	.22	4.55	.60	1.02	1.02	1.33
24M-8-6446	1/2	3/8 - 1/4	1.65	6.51	.22	4.55	.64	1.02	1.02	1.17

Assembly Instructions

1. Cut tubing squarely with Parker tube cutter PTC-001. Be certain that Manifold ports are clean and free of debris.
2. Insert tubing into port until it bottoms. Pull on tubing to verify that it is properly retained in the manifold.
3. To disassemble, simply hold release button against the manifold body and remove the tubing.
4. To reassemble, make certain that the Manifold ports are clean and free of debris and lubricate leading end of the tubing with light oil or petroleum jelly.



WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

AQRT - Quick Release Tool

Makes disconnection of tube adapters and tubing a breeze.





PTCB Collet Caps

	Tube O.D.			
	1/4	3/8	1/2	5/8
WHITE PART NO.	4-PTCB-W	6-PTCB-W	8-PTCB-W	10-PTCB-W
BLACK PART NO.	4-PTCB-BL	6-PTCB-BL	8-PTCB-BL	10-PTCB-BL
GREEN PART NO.	4-PTCB-G	6-PTCB-G	8-PTCB-G	10-PTCB-G
RED PART NO.	4-PTCB-R	6-PTCB-R	8-PTCB-R	10-PTCB-R
BLUE PART NO.	4-PTCB-BU	6-PTCB-BU	8-PTCB-BU	
YELLOW PART NO.	4-PTCB-Y	6-PTCB-Y	8-PTCB-Y	10-PTCB-Y
BROWN PART NO.	4-PTCB-BR	6-PTCB-BR	8-PTCB-BR	10-PTCB-BR
GREY PART NO.	4-PTCB-GR	6-PTCB-GR	8-PTCB-GR	10-PTCB-GR
ORANGE PART NO.	4-PTCB-O	6-PTCB-O	8-PTCB-O	10-PTCB-O
PURPLE PART NO.	4-PTCB-PU	6-PTCB-PU	8-PTCB-PU	10-PTCB-PU
DARK PURPLE PART NO.	4-PTCB-DPU	6-PTCB-DPU	8-PTCB-DPU	10-PTCB-DPU

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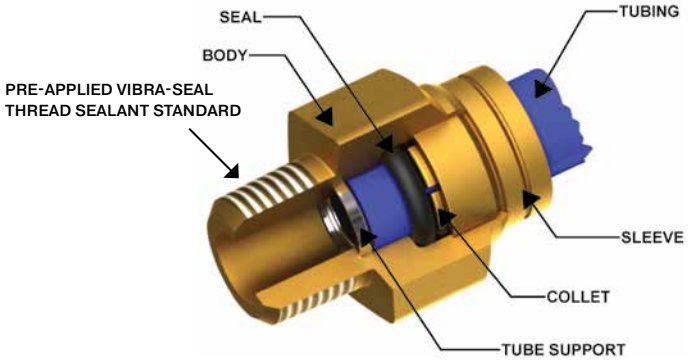


PTC BRASS FITTINGS

Parker's PTC Brass Fittings are robust, all brass push-to-connect fittings that meet SAE and D.O.T. specifications. Designed for all D.O.T truck and trailer applications, Parker PTC Brass fittings reduce assembly time versus compression style fittings by 90%.

Product Features:

- Brass Collet
- Buna N O-ring
- Stainless Steel Tube Support
- Meets D.O.T. FMVSS571.106
- Meets SAE J2494 & SAE J2494-3



Markets:

- Heavy Duty Truck
- Trailer
- Mobile

Applications:

- Air Brakes
- Air Tanks
- Air Ride
- Sliders
- Tire Inflation
- Primary & Secondary Air Lines

Specifications:

Pressure Range	Up to 250 PSI (17.2 bar)
Temperature Range	-50˚ to +230˚ F (-45.5° to +110° C)
Temperature Range (3/16" & 5/32 only)	-40 to +200F (-40 to +93.3C)

Assembly Instructions

1. Cut tubing squarely – maximum of 15˚ angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

Compatible Tubing:

- SAE J844 Type A & B nylon tubing

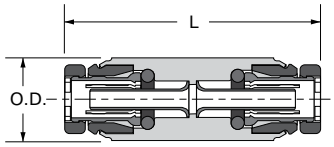


Note:
5/32 and 3/16 units have black button



WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



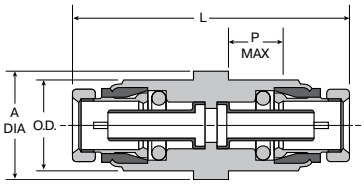


Union 62PTC

Part No.	Tube Size 1	Tube Size 2	L	O.D.
62PTC-5/32*	5/32	5/32	1.35	.41
62PTC-3*	3/16	3/16	1.36	.44
62PTC-4	1/4	1/4	1.37	1/2
62PTC-6	3/8	3/8	1.77	3/4
62PTC-6-4	3/8	1/4	1.57	3/4
62PTC-4-5/32	1/4	5/32		
62PTC-8	1/2	1/2	1.92	7/8
62PTC-10	5/8	5/8	2.32	1

*5/32 and 3/16 with black button



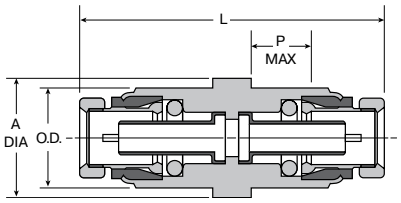


Bulkhead Union 62PTCBH

Part No.	Tube Size (in)	OD (in)	L (in)	P Max (in)	Hex A (in)	Hex B (in)	Bulkhead Hole Dia. (in)
62PTCBH-4	1/4	.56	1.69	.25	11/16	3/4	9/16
62PTCBH-6	3/8	.88	1.93	.44	1 1/16	1 1/16	7/8
62PTCBH-8	1/2	1.00	2.02	.58	1 1/4	1 1/4	1
62PTCBH-10	5/8	1.12	2.40	.81	1 1/4	1 3/8	1-1/8

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

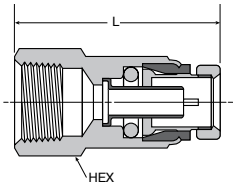




Retaining Ring Bulkhead Union 62PTCBHR

Part No.	Tube Size (in)	OD (in)	Rec. Hole Size (in)	L (in)	P Max (in)	A Dia (in)
62PTCBHR-4	1/4	.500	.512	1.53	.26	.625
62PTCBHR-6	3/8	.750	.762	1.92	.36	.875
62PTCBHR-8	1/2	.875	.887	2.15	.43	1.000
62PTCBHR-10	5/8	1.000	1.012	2.32	.48	1.250





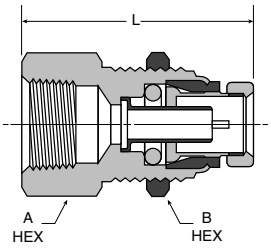
Female Connector 66PTC

Part No.	Tube Size	Pipe Thd	L	Hex
66PTC-5/32-2*	5/32	1/8	1.16	9/16
66PTC-5/32-4*	5/32	1/4	1.33	11/16
66PTC-3-2*	3/16	1/8	1.17	9/16
66PTC-4-2	1/4	1/8	1.17	9/16
66PTC-4-4	1/4	1/4	1.37	11/16
66PTC-4-6	1/4	3/8		
66PTC-6-2	3/8	1/8	1.38	3/4
66PTC-6-4	3/8	1/4	1.59	3/4
66PTC-6-6	3/8	3/8	1.59	3/4
66PTC-8-4	1/2	1/4	1.61	7/8
66PTC-8-6	1/2	3/8	1.87	15/16
66PTC-8-8	1/2	1/2	1.87	15/16
66PTC-10-6	5/8	3/8		
66PTC-10-8	5/8	1/2	2.02	1

*5/32 and 3/16 with black button

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

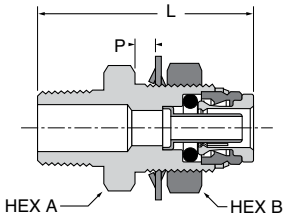




Bulkhead Female Connector 66PTCBH

Part No.	Tube Size (in)	Pipe Thd (in)	L (in)	Hex A (in)	Hex B (in)	Bulkhead Hole Dia. (in)
66PTCBH-4-4	1/4	1/4	1.62	11/16	3/4	9/16
66PTCBH-6-6	3/8	3/8	1.87	1.06	1.06	7/8
66PTCBH-8-8	1/2	1/2	2.02	1 1/4	1 1/4	1





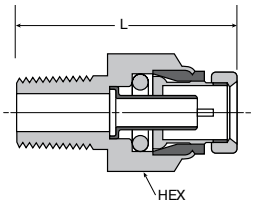
Bulkhead Male Connector 68PTCBH

Part No.	Tube Size (in)	Pipe Thd (in)	L (in)	P Max (in)	Hex A (in)	Hex B (in)	Bulkhead Hole Dia. (in)
68PTCBH-6-8	3/8	1/2	2.37	.33	1 1/4	1 1/4	1
68PTCBH-8-8	1/2	1/2	2.38	.33	1 1/4	1 1/4	1

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

*5/32 and 3/16
with black button



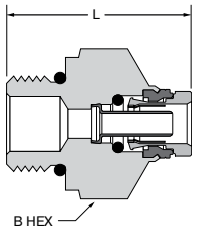


Male Connector VS68PTC

Part No.	Tube Size	Pipe Thd	Hex	L
VS68PTC-5/32-1*	5/32	1/16	7/16	.84
VS68PTC-5/32-2*	5/32	1/8	7/16	.92
VS68PTC-5/32-4*	5/32	1/4	9/16	1.02
VS68PTC-3-1*	3/16	1/16	7/16	.93
VS68PTC-3-2*	3/16	1/8	7/16	.85
VS68PTC-3-4*	3/16	1/4	9/16	1.02
VS68PTC-4-2	1/4	1/8	1/2	.98
VS68PTC-4-4	1/4	1/4	9/16	1.02
VS68PTC-4-6	1/4	3/8	11/16	.93
VS68PTC-4-8	1/4	1/2	7/8	1.12
VS68PTC-6-2	3/8	1/8	11/16	1.29
VS68PTC-6-4	3/8	1/4	11/16	1.44
VS68PTC-6-6	3/8	3/8	11/16	1.44
VS68PTC-6-8	3/8	1/2	7/8	1.63
VS68PTC-8-4	1/2	1/4	7/8	1.51
VS68PTC-8-6	1/2	3/8	7/8	1.46
VS68PTC-8-8	1/2	1/2	7/8	1.46
VS68PTC-10-6	5/8	3/8	1	1.74
VS68PTC-10-8	5/8	1/2	1	1.81
VS68PTC-12-8	3/4	1/2	1 1/8	1.89
VS68PTC-12-12	3/4	3/4	1/4	1.89

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





Male Connector Metric Straight Thread 68PTC

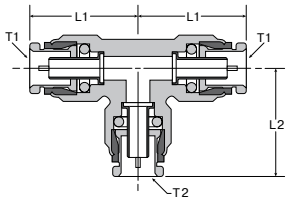
Part No.	Tube Size	Thd*	B HEx	L
68PTC-4-MA12	1/4	MA12	11/16	1.14
68PTC-4-MA16	1/4	MA16	7/8	1.21
68PTC-4-MA22	1/4	MA22	1 1/16	1.21
68PTC-6-MA12	3/8	MA12	3/4	1.31
68PTC-6-MA16	3/8	MA16	7/8	1.23
68PTC-6-MA22	3/8	MA22	1 1/16	0.74
68PTC-8-MA12	1/2	MA12	7/8	1.37
68PTC-8-MA16	1/2	MA16	7/8	1.39
68PTC-8-MA22	1/2	MA22	1 1/16	0.91
68PTC-10-MA12	5/8	MA12	1	1.67
68PTC-10-MA16	5/8	MA16	1	1.61
68PTC-10-MA22	5/8	MA22	1 1/16	1.37

*Per ISO 4039

*5/32 and 3/16
with black button







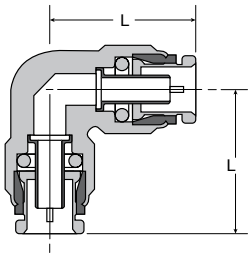
Union Tee 164PTC

Part No.	Tube 1 Size	Tube 2 Size	L1	L2
164PTC-5/32*	5/32	5/32	.77	.77
164PTC-3*	3/16	3/16	.77	.77
164PTC-4	1/4	1/4	.85	.85
164PTC-6	3/8	3/8	.81	.81
164PTC-6-6-4	3/8	1/4	1.10	.90
164PTC-8	1/2	1/2	1.31	1.31
164PTC-10	5/8	5/8	1.57	1.57

*5/32 and 3/16 with black button

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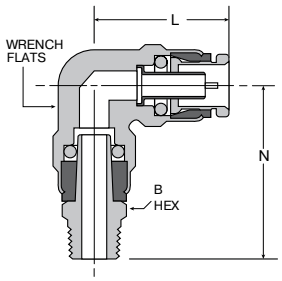


Union Elbow 165PTC

Part No.	Tube Size	L
165PTC-5/32*	5/32	.79
165PTC-3*	3/16	.77
165PTC-4	1/4	.80
165PTC-6	3/8	1.20
165PTC-8	1/2	1.22
165PTC-10	5/8	1.49

*5/32 and 3/16 with black button





Male Elbow 90° 169PTC

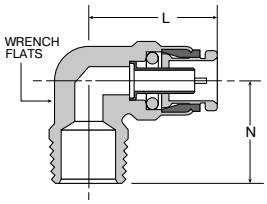
Part No.	Tube Size	Pipe Thd.	L	N	Wrench Flats	B Hex
169PTC-4-2	1/4	1/8	.85	.96	1/2	9/16
169PTC-4-4	1/4	1/4	.85	1.22	1/2	9/16
169PTC-4-6	1/4	3/8	.85	1.22	1/2	11/16
169PTC-6-2	3/8	1/8	1.02	1.21	9/16	11/16
169PTC-6-4	3/8	1/4	1.02	1.33	9/16	11/16
169PTC-6-6	3/8	3/8	1.02	1.33	9/16	11/16
169PTC-6-8	3/8	1/2	1.02	1.33	9/16	7/8
169PTC-8-4	1/2	1/4	1.16	1.40	11/16	11/16
169PTC-8-6	1/2	3/8	1.16	1.42	11/16	11/16
169PTC-8-8	1/2	1/2	1.16	1.63	11/16	7/8
169PTC-10-6	5/8	3/8	1.47	1.41	7/8	7/8
169PTC-10-8	5/8	1/2	1.47	1.6	7/8	7/8

*Add VS prefix to order with Vibra Seal

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

*5/32 and 3/16
with black button





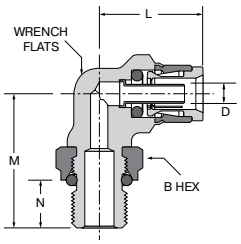
Male Elbow Rigid 90° 169PTCNS

Part No.	Tube Size	Pipe Thd.	L	N	Wrench Flats
169PTCNS-5/32-1*	5/32	1/16	.79	.62	3/8
169PTCNS-5/32-2*	5/32	1/8	.83	.65	3/8
169PTCNS-5/32-4*	5/32	1/4	.77	.85	1/2
169PTCNS-3-2*	3/16	1/8	.77	.65	3/8
169PTCNS-3-4*	3/16	1/4	.77	.85	1/2
169PTCNS-4-2	1/4	1/8	.81	.72	1/2
169PTCNS-4-4	1/4	1/4	.85	.84	1/2
169PTCNS-4-6	1/4	3/8	.85	.96	1/2
169PTCNS-6-2	3/8	1/8	1.01	.76	9/16
169PTCNS-6-4	3/8	1/4	1.02	.94	9/16
169PTCNS-6-6	3/8	3/8	1.02	.90	9/16
169PTCNS-6-8	3/8	1/2	1.07	1.20	11/16
169PTCNS-8-4	1/2	1/4	1.16	1.06	11/16
169PTCNS-8-6	1/2	3/8	1.16	1.06	11/16
169PTCNS-8-8	1/2	1/2	1.16	1.19	11/16
169PTCNS-10-6	5/8	3/8	1.49	1.05	7/8
169PTCNS-10-8	5/8	1/2	1.48	1.24	7/8
169PTCNS-12-8	3/4	1/2	1.61	1.39	1
169PTCNS-12-12	3/4	3/4	1.61	1.50	1

*5/32 and 3/16 with black button
**Add VS prefix to order with Vibra Seal

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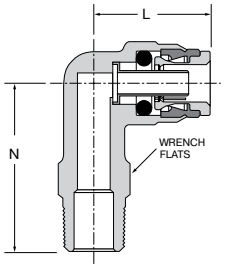




Male Elbow to Metric Adjustable 169PTCNS

Part No.	Tube Size	Metric Thd.	Wrench Flats (mm)	Hex (mm)	L	M	N
169PTCNS-4-MI2	1/4	M12X1.5	10	17	.80	1.11	.32
169PTCNS-4-M16	1/4	M16X1.5	11	24	.88	1.27	.34
169PTCNS-4-M22	1/4	M22X1.5	19	30	.94	1.48	.40
169PTCNS-6-M12	3/8	M12X1.5	16	17	1.00	1.15	.37
169PTCNS-6-M16	3/8	M16X1.5	19	24	1.18	1.27	.31
169PTCNS-8-M12	1/2	M12X1.5	16	17	1.20	1.22	.37
169PTCNS-8-M16	1/2	M16X1.5	16	24	1.20	1.28	.41
169PTCNS-8-M22	1/2	M22X1.5	19	30	1.20	1.48	.41





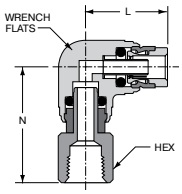
Male Elbow Long Rigid 90° 169PTCNSL

Part No.	Tube Size	Pipe Thd.	L	N	Wrench Flats
169PTCNSL-6-4	3/8	1/4	1.01	1.63	9/16
169PTCNSL-6-8	3/8	1/2	1.19	2.50	7/8
169PTCNSL-6-6	3/8	3/8	1.19	2.50	7/8
169PTCNSL-8-8	1/2	1/2	1.22	2.50	7/8

*Add VS prefix to order with Vibra Seal

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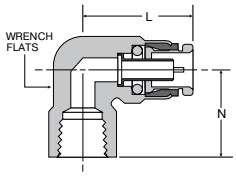


Female Elbow Swivel 90° 170PTC

Part No.	Tube Size	Pipe Thd.	L	N	Hex	Wrench Flats
170PTC-4-2	1/4	1/8	.85	1.06	9/16	1/4

*Add VS prefix to order with Vibra Seal



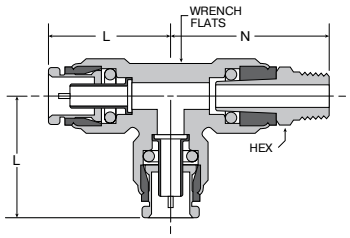


Female Elbow Rigid 90° 170PTCNS

Part No.	Tube Size	Pipe Thd.	L	N	Wrench Flats
170PTCNS-4-2	1/4	1/8	.84	.56	11/16
170PTCNS-4-4	1/4	1/4	.91	.67	11/16
170PTCNS-6-2	3/8	1/8	1.07	.51	9/16
170PTCNS-6-4	3/8	1/4	1.07	.84	9/16
170PTCNS-6-6	3/8	3/8	1.24	.69	7/8
170PTCNS-8-4	1/2	1/4	1.25	.75	11/16
170PTCNS-8-6	1/2	3/8	1.36	.80	11/16
170PTCNS-8-8	1/2	1/2	1.63	.97	1
170PTCNS-5/32-2	5/32	1/8			

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Male Run Tee Swivel 171PTC

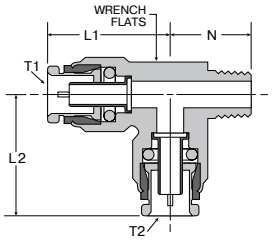
Part No.	Tube Size	Pipe Thd.	L	N	Hex	Wrench Flats
171PTC-4-2	1/4	1/8	.82	1.01	9/16	1/2
171PTC-4-4	1/4	1/4	.82	1.23	9/16	1/2
171PTC-4-6	1/4	3/8	.82	1.23	11/16	1/2
171PTC-6-4	3/8	1/4	1.10	1.35	11/16	5/8
171PTC-6-6	3/8	3/8	1.10	1.38	11/16	5/8
171PTC-8-4	1/2	1/4	1.31	1.45	11/16	3/4
171PTC-8-6	1/2	3/8	1.31	1.48	11/16	3/4
171PTC-8-8	1/2	1/2	1.31	1.69	7/8	3/4

*Add VS prefix to order with Vibra Seal

*5/32 and 3/16
with black button







Male Run Tee Rigid 171PTCNS

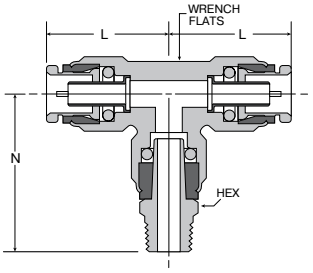
Part No.	Tube 1 Size	Tube 2 Size	Pipe Thd.	L1	L2	N	Wrench Flats
171PTCNS-5/32-2*	5/32	5/32	1/8	.76	.76	.75	7/16
171PTCNS-5/32-4*	5/32	5/32	1/4	.76	.76	.88	7/16
171PTCNS-3-2*	3/16	3/16	1/8	.77	.77	.75	7/16
171PTCNS-4-2	1/4	1/4	1/8	.91	.91	.77	15/32
171PTCNS-4-4	1/4	1/4	1/4	.88	.88	.91	15/32
171PTCNS-4-6-4	1/4	3/8	1/4	.88	1.10	.97	5/8
171PTCNS-6-4	3/8	3/8	1/4	1.10	1.10	.97	5/8
171PTCNS-6-4-4	3/8	1/4	1/4	1.10	.88	.97	5/8
171PTCNS-6-4-6	3/8	1/4	3/8	1.22	.97	.93	5/8
171PTCNS-6-6	3/8	3/8	3/8	1.10	1.10	.91	5/8
171PTCNS-6-8	3/8	3/8	1/2	1.09	1.17	1.26	5/8
171PTCNS-8-4	1/2	1/2	1/4	1.31	1.28	1.07	3/4

*5/32 and 3/16 with black button

**Add VS prefix to order with Vibra Seal

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Male Branch Tee Swivel 172PTC

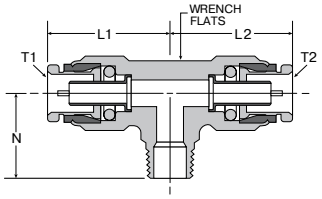
Part No.	Tube Size	Pipe Thd.	L	N	Hex	Wrench Flats
172PTC-4-2	1/4	1/8	.82	1.02	9/16	1/2
172PTC-4-4	1/4	1/4	.82	1.23	9/16	1/2
172PTC-6-2	3/8	1/8	1.10	1.34	11/16	5/8
172PTC-6-4	3/8	1/4	1.10	1.45	11/16	5/8
172PTC-6-6	3/8	3/8	1.10	1.48	11/16	5/8
172PTC-8-4	1/2	1/4	1.31	1.45	5/8	3/4
172PTC-8-6	1/2	3/8	1.31	1.48	11/16	3/4
172PTC-8-8	1/2	1/2	1.31	1.97	7/8	3/4

*5/32 and 3/16 with black button
**Add VS prefix to order with Vibra Seal

*5/32 and 3/16
with black button







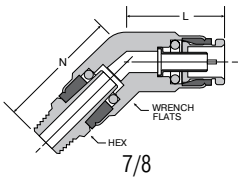
Male Branch Tee Rigid 172PTCNS

Part No.	Tube 1 Size	Tube 2 Size	Pipe Thd.	L1	L2	n	Wrench Flats
172PTCNS-5/32-2*	5/32	1/8	.78	.75	7/16	.47	15/32
172PTCNS-5/32-4*	5/32	1/4	.78	.88	7/16	.47	15/32
172PTCNS-3-2*	3/16	1/8	.77	.75	7/16	.47	15/32
172PTCNS-4-2	1/4	1/4	1/8	.91	.91	.77	1/2
172PTCNS-4-4	1/4	1/4	1/4				
172PTCNS-6-4	3/8	3/8	1/4	1.10	1.10	.97	5/8
172PTCNS-6-4-4	3/8	1/4	1/4	1.10	.85	.97	5/8
172PTCNS-6-6	3/8	3/8	3/8	1.04	1.04	.91	5/8
172PTCNS-6-8	3/8	3/8	1/2	1.17	1.17	1.26	7/8
172PTCNS-8-6	1/2	1/2	3/8	1.31	1.31	1.07	3/4
172PTCNS-8-6-8	1/2	3/8	1/2	1.31	1.24	1.25	3/4
172PTCNS-8-8	1/2	1/2	1/2	1.31	1.31	1.25	3/4

*Add VS prefix to order with Vibra Seal

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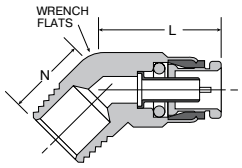
7/8

Male Elbow Swivel 45° 179PTC

Part No.	Tube Size	Pipe Thd.	L	N	Hex	Wrench Flats
179PTC-4-2	1/4	1/8	.76	.93	9/16	9/16
179PTC-4-4	1/4	1/4	.76	1.15	9/16	9/16
179PTC-6-2	3/8	1/8	.95	1.05	11/16	3/4
179PTC-6-4	3/8	1/4	.95	1.17	11/16	3/4
179PTC-6-6	3/8	3/8	.95	1.20	11/16	3/4
179PTC-8-4	1/2	1/4	1.15	1.70	13/16	13/16
179PTC-8-6	1/2	3/8	1.15	1.78	13/16	13/16
179PTC-8-8	1/2	1/2	1.15	1.93	7/8	13/16
179PTC-10-8	5/8	1/2	1.21	1.59	7/8	7/8

*Add VS prefix to order with Vibra Seal





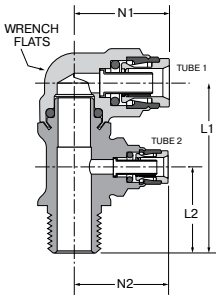
Male Elbow Rigid 45° 179PTCNS

Part No.	Tube Size	Pipe Thd.	L	N	Wrench Flats
179PTCNS-4-2	1/4	1/8	.74	.56	9/16
179PTCNS-4-4	1/4	1/4	.74	.69	9/16
179PTCNS-6-2	3/8	1/8	1.06	.60	9/16
179PTCNS-6-4	3/8	1/4	1.06	.69	9/16
179PTCNS-6-6	3/8	3/8	1.06	.85	9/16
179PTCNS-6-8	3/8	1/2			
179PTCNS-8-4	1/2	1/4	1.15	.75	13/16
179PTCNS-8-6	1/2	3/8	1.15	.75	13/16
179PTCNS-8-8	1/2	1/2	1.15	1.00	13/16
179PTCNS-10-6	5/8	3/8	1.20	.76	7/8
179PTCNS-10-8	5/8	1/2	1.21	.95	7/8
179PTCNS-12-8	3/4	1/2	1.33	1.19	1

*Add VS prefix to order with Vibra Seal

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Dual Port 90 Male Elbow Positional 189PTC

Part No.	Tube 1 Size	Tube 2 Size	Pipe Thd.	L1	L2	N1	N2	Wrench Flats
189PTC-6-4-6	3/8	1/4	3/8	2.12	1.05	1.21	1.19	11/16
189PTC-6-6-4	3/8	3/8	1/4	2.06	.98	1.12	1.20	9/16
189PTC-6-6-6	3/8	3/8	3/8	2.06	.98	1.12	1.20	9/16
189PTC-10-4-6	5/8	1/4	3/8	2.27	.99	1.47	1.13	7/8
189PTC-10-6-6	5/8	3/8	3/8	2.35	1.06	1.47	1.13	7/8
189PTC-8-4-8	1/2	1/4	1/2					
189PTC-8-6-6	1/2	3/8	3/8					
189PTC-8-6-8	1/2	3/8	1/2					
189PTC-10-4-8	5/8	1/4	1/2					
189PTC-10-6-8	5/8	3/8	1/2					
189PTC-10-10-8	5/8	5/8	1/2					

*Add VS prefix to order with Vibra Seal

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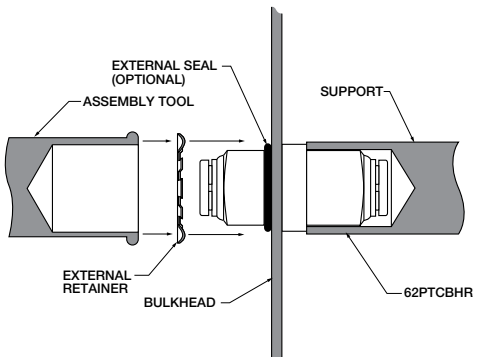
Retaining Ring Bulkhead Unions

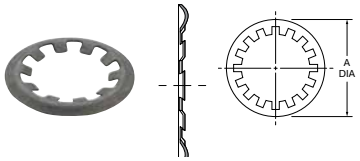
Retaining ring bulkhead unions feature a unique design that provides the user with an economical method to install and assemble a union connection through a bulkhead.

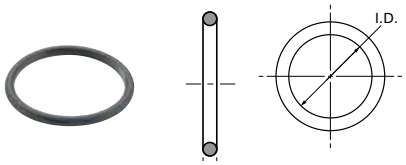
The retaining ring bulkhead unions feature a smaller envelope size than standard bulkhead union connectors and do not require a wrench to mount or assemble in cramped areas.

The external seal feature provides a moisture barrier and can also prevent external contamination from entering into an enclosed area.

To install, simply support the bulkhead union from behind and apply the external seal. Then push the external retainer against the external seal with an assembly tool and you have a reliable bulkhead connection in a confined area.







External Retainer ERHD*

Part No.	Tube Size	Bulkhead Union O.D.	A Dia.	W
ERHD-50	1/4	.500	.83	.05
ERHD-75	3/8	.750	1.08	.05
ERHD-87	1/2	.875	1.20	.05
ERHD-100	5/8	1.000	1.33	.06

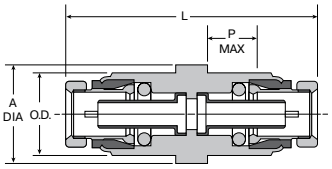
*Material Carbon Spring Steel

External Seal ES*

Part No.	Tube Size	Bulkhead Union O.D.	I.D.	W
2564-40001-L	1/4	.500	.489	.07
2564-60001	3/8	.750	.739	.07
2564-00253	1/2	.875	.864	.07

*Material is Nitrite (Buna N), 70 Durometer





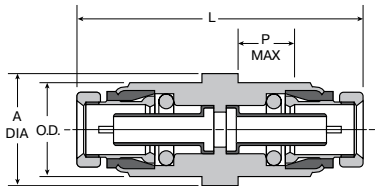
Retaining Ring Bulkhead 62PTCBHR

Part No.	Tube Size	O.D.	Rec. Hole Size	L	P Max	A Dia.
62PTCBHR-4*	1/4	.500	.512	1.53	.26	.625
62PTCBHR-6	3/8	.750	.762	1.92	.36	.875
62PTCBHR-8	1/2	.875	.887	2.15	.43	1.000
62PTCBHR-10	5/8	1.000	1.012	2.32	.48	1.250

*Sleeve color may vary

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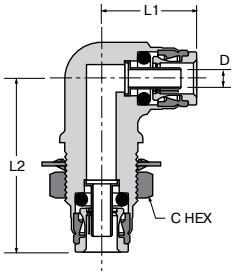


Bulkhead Union 62PTCBH

Part No.	Tube Size	O.D.	L	P Max	Hex A	Hex B	A Dia.
62PTCBH-4*	1/4	.56	1.69	.25	11/16	3/4	9/16
62PTCBH-6	3/8	.88	1.93	.44	1-1/16	1-1/16	7/8
62PTCBH-8	1/2	1.00	2.02	.58	1-1/4	1-1/4	1
62PTCBH-10	5/8	1.12	2.40	.81	1-1/4	1-3/8	1-1/8

*Sleeve color may vary

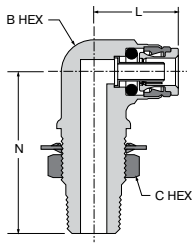




Union Bulkhead Elbow 165PTCBH

Part No.	Tube Size	L1	L2	C Hex	Flow Dia. D	Bulkhead Hole Dia.
165PTCBH-8	1/2	1.20	2.51	1 1/4	.34	1

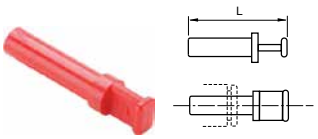




Male Elbow Bulkhead 169PTCNSBH

Part No.	Tube Size	Pipe Thd.	L	N	B Hex	C Hex	Bulkhead Hole Dia.
169PTCNSBH-6-8	3/8	1/2	1.11	2.50	7/8	1-1/4	1
169PTCNSBH-8-8	1/2	1/2	1.20	2.50	7/8	1-1/4	1

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639PLP Plug

Part No.	Tube Size (in)	L
639PLP-4	1/4	1.44
639PLP-6	3/8	1.67
639PLP-8	1/2	1.91



AQRT - Quick Release Tool

Makes disconnection of tube adapters and tubing a breeze.



PTCB Collet Caps

	Tube O.D.			
	1/4	3/8	1/2	5/8
WHITE PART NO.	4-PTCB-W	6-PTCB-W	8-PTCB-W	10-PTCB-W
BLACK PART NO.	4-PTCB-BL	6-PTCB-BL	8-PTCB-BL	10-PTCB-BL
GREEN PART NO.	4-PTCB-G	6-PTCB-G	8-PTCB-G	10-PTCB-G
RED PART NO.	4-PTCB-R	6-PTCB-R	8-PTCB-R	10-PTCB-R
BLUE PART NO.	4-PTCB-BU	6-PTCB-BU	8-PTCB-BU	10-PTCB-BU
YELLOW PART NO.	4-PTCB-Y	6-PTCB-Y	8-PTCB-Y	10-PTCB-Y
BROWN PART NO.	4-PTCB-BR	6-PTCB-BR	8-PTCB-BR	10-PTCB-BR
GREY PART NO.	4-PTCB-GR	6-PTCB-GR	8-PTCB-GR	10-PTCB-GR
ORANGE PART NO.	4-PTCB-O	6-PTCB-O	8-PTCB-O	10-PTCB-O
PURPLE PART NO.	4-PTCB-PU	6-PTCB-PU	8-PTCB-PU	10-PTCB-PU
DARK PURPLE PART NO.	4-PTCB-DPU	6-PTCB-DPU	8-PTCB-DPU	10-PTCB-DPU

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METRIC PRESTOMATIC FITTINGS

Parker's Metric Prestomatic Fittings are robust, all brass push-to-connect fittings that meet DIN and D.O.T. specifications. Designed for all D.O.T truck and trailer applications, Parker Metric Prestomatic fittings reduce assembly time versus compression style fittings by 90%.

Product Features:

- Brass Collet
- Buna N O-ring
- Stainless Steel Tube Support
- Meets D.O.T. FMVSS571.106
- Meets DIN 74324

Markets:

- Heavy Duty Truck
- Trailer
- Mobile

Applications:

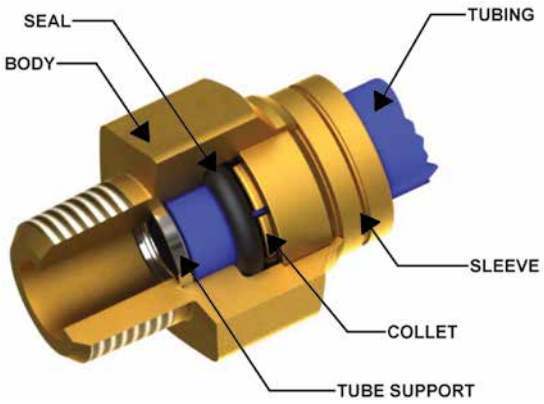
- Air Brakes
- Air Tanks
- Air Ride
- Sliders
- Tire Inflation
- Primary & Secondary Air Lines

Compatible Tubing:

- DIN 73378 Virgin Nylon
- SAE J844 Type A & B nylon tubing

Specifications:

Pressure Range	Up to 250 PSI (17.2 bar)
Temperature Range	-40˚ to +200˚ F (-40° to +93.3° C)

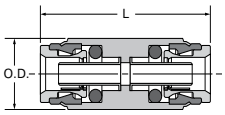


Assembly Instructions

1. Cut tubing squarely – maximum of 15˚ angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.

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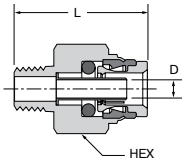




Union HPMTB

Part No.	Tube Size (mm)	L (mm)	O.D. (mm)
HPMTB6	6	45.2	15.9
HPMTB8	8	45.3	17.5
HPMTB10	10	51.7	22.2
HPMTB12	12	51.7	22.2

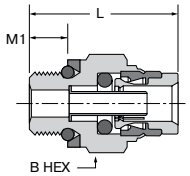




Male Connector F2PMTB

Part No.	Tube (mm)	Pipe Thread	L (mm)	Hex (mm)	Flow Dia. D (mm)
F2PMTB8-1/8	8	1/8	33.79	19	4.90
F2PMTB10-1/4	10	1/4	36.83	20	6.35



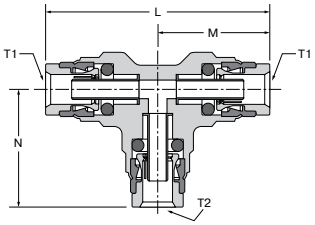


Male Connector Metric Straight Thread F8UPMTB

Part No.	Tube Size (mm)	Metric Thread	L (mm)	B Hex (mm)	M1 (mm)
F8UPMTB6-M10	6	M10X1	29.7	17	6.4
F8UPMTB6-M12	6	M12X1.5	29.1	17	7.5
F8UPMTB6-M22	6	M22X1.5	29.7	27	9.5
F8UPMTB8-M16	8	M16X1.5	31.0	22	10.0
F8UPMTB10-M16	10	M16X1.5	37.5	22	10.0
F8UPMTB10-M22	10	M22X1.5	31.1	27	9.5
F8UPMTB12-M12	12	M12X1.5	37.3	22	7.5
F8UPMTB12-M22	12	M22X1.5	33.4	27	9.5
F8UPMTB16-M22	16	M22X1.5	33.3	27	9.5

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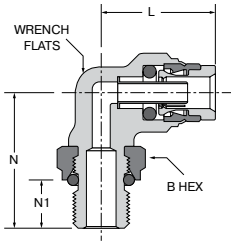




Union Tee JPMTB

Part No.	Tube 1 (mm)	Tube 2 (mm)	L (mm)	N (mm)	N (mm)
JPMTB6	6	6	51.3	25.6	26.7
JPMTB12	12	12	63.3	31.7	35.0
JPMTB12-12-6	12	6	63.3	31.7	28.1





Male Elbow Metric Straight Thread C8UPMTB

Part No.	Tube Size (mm)	B Metric Thread	Wrench Flats (mm)	Hex (mm)	L (mm)	N (mm)	N1 (mm)
C8UPMTB6-M12	6	M12X1.5	10	17	24.8	28.2	9.5
C8UPMTB6-M16	6	M16X1.5	11	24	25.0	34.0	10.5

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



PARKER SAFE LOCK

Parker Safe Lock push-to-connect fittings reduce assembly time and the exclusive locking mechanism minimizes leaks and installation failures.

Parker Safe Lock

Product Features:

- Composite Body – Strong, Lightweight, Compact and Impact Resistant
- Fluorocarbon and Fluorosilicone O-ring
- Meets SAE J2044

Markets:

- Heavy Duty Truck
- Trailer
- Mobile

Applications:

- Engine Fuel, Coolant and Vapor Lines

Specifications:

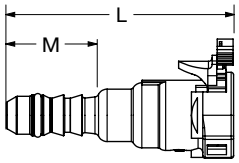
Pressure Range	-7.2 to +72 PSI (-0.5 to +5.0 bar)
Temperature Range	-40° to +239° F (-40° to +115° C)

Parker Brass Adapter

Product Features:

- **Construction**: Corrosion resistant high temperature brass
- **Configuration**: Rigid male pipe
- **Industry Standard**: SAE J2044

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

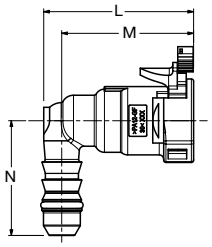




Straight Fittings A613 & A614

Part No.**	End Form (in)	Barb Tail (in)	L (mm)	M (mm)	N (mm)	Conductive
A614A50G06 02	5/16"	5/16"	49.40	19.50	N/A	YES
A613 52 08 00	10MM	3/8"	55.00	19.00	N/A	NO
A614M53 08 02	3/8"	3/8"	55.00	21.50	N/A	YES
A614A58 55 04	12MM	1/2"	59.35	21.00	N/A	YES
A614C56 55 05	1/2"	1/2"	59.15	21.00	N/A	YES
A614D57 56 02	5/8"	5/8"	58.20	20.00	N/A	NO

**Safe Lock Connector part numbers contain spaces.





90 Elbow Fittings A623 & A624

Part No.**	End Form (in)	Barb Tail (in)	L (mm)	M (mm)	N (mm)	Conductive
A624A50D06 02	5/16"	5/16"	29.50	19.50	25.70	YES
A623A52 08 00	10MM	3/8"	34.40	19.00	32.00	YES
A624M53 08 02	3/8"	3/8"	34.05	21.50	28.60	YES
A624A58 55 04	12MM	1/2"	39.00	21.00	29.70	YES
A624C56 55 05	1/2"	1/2"	39.00	21.00	29.70	YES
A624F57 56 02	5/8"	5/8"	39.10	20.00	30.10	YES

**Safe Lock Connector part numbers contain spaces.



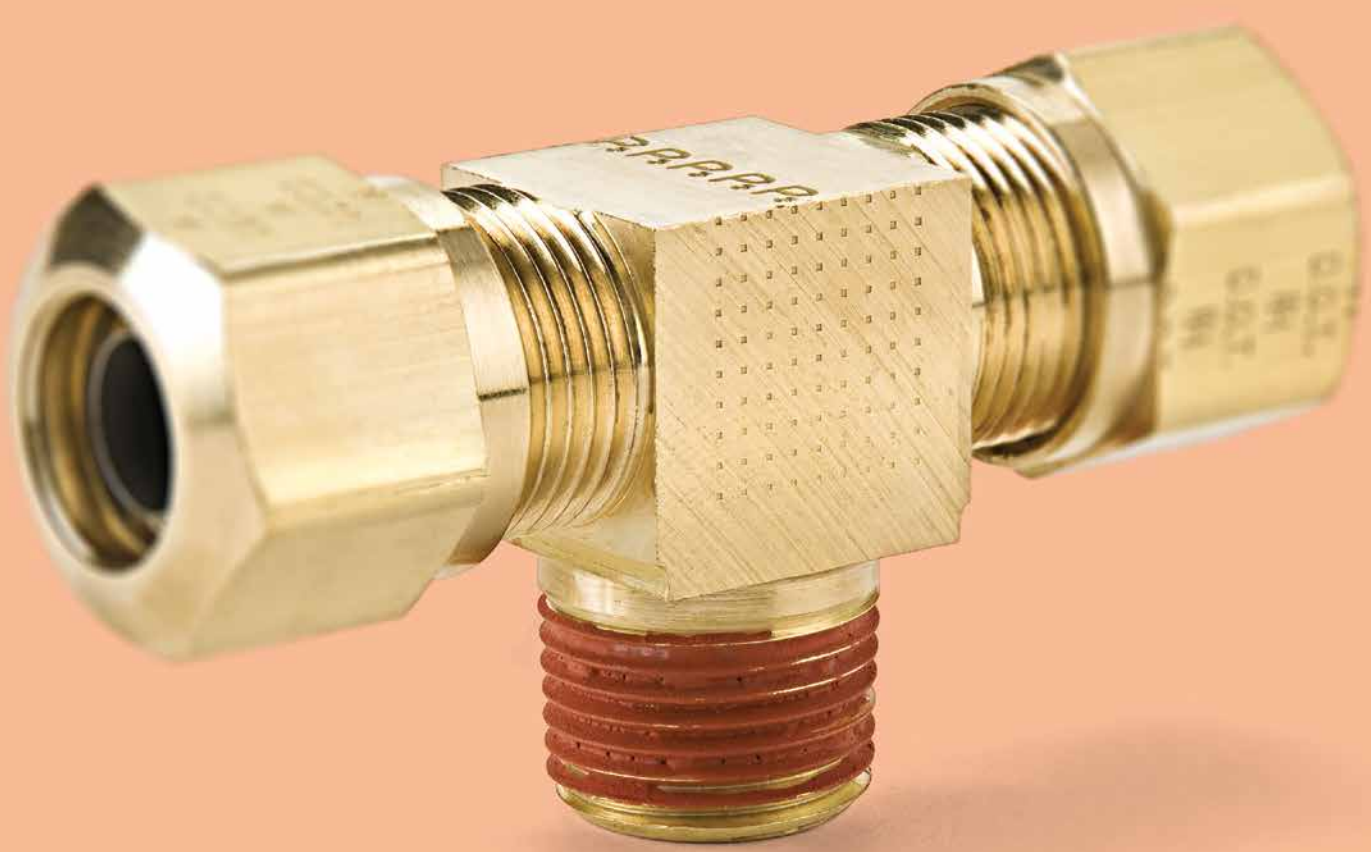
Brass Adapter 68ALS

Part No.	End Form (in)	Thread Size (in)
68ALS-5-4	5/16"	1/4"
68ALS-6-4	3/8"	1/4"
68ALS-6-6	3/8"	3/8"
68ALS-8-6	1/2"	3/8"
68ALS-8-8	1/2"	1/2"
68ALS-10-8	5/8"	1/2"
68ALS-12M-6	12MM	3/8"
68ALS-12M-8	12MM	1/2"

Adapters are available with Metric Straight Thread O-Rings and Electroless Nickel Plating Upon Request

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Notes



TRANSPORTATION
COMPRESSION

Fittings & Valves, Air Brake–NTA® Fittings, Transmission Fittings, Air Brake – AB Fittings, Air Brake Hose Ends Fittings, Vibra-Lok Fittings, Truck Valves & Lanyard Valve

Parker



AIR BRAKE–NTA® FITTINGS

Parker's NTA Fittings utilize a ribbed sleeve for compression and positive grip. Fittings meet SAE and D.O.T. specifications. Designed for all D.O.T truck and trailer applications. Electroless nickel plated bodies can be used with bio-diesel.

Product Features:

- Brass Body
- Meets D.O.T. FMVSS571.106 Performance
- Meets functional Requirements SAE J246 & SAE J1131
- Pre-applied Vibra-Seal thread sealant available
- Nickel Plated Versions Available for Bio-diesel

Markets:

- Heavy Duty Truck
- Trailer
- Mobile

Applications:

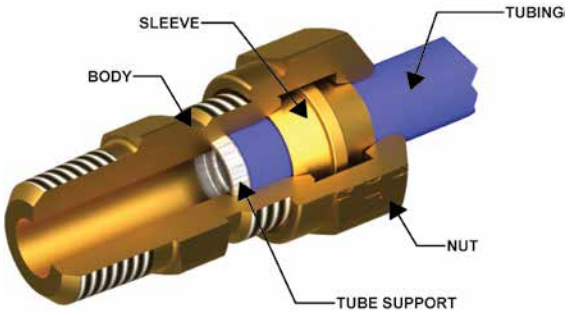
- Air Brakes
- Air Tanks
- Air Ride
- Sliders
- Tire Inflation
- Primary & Secondary Air Lines
- Cab Controls

Specifications:

Pressure Range	Up to 150 PSI (10.3 bar)
Temperature Range	-40° to +200° F (-40° to +93.3° C)

Compatible Tubing:

- SAE J844 Type A & B nylon tubing

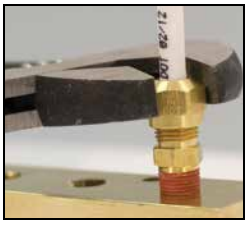


Assembly Instructions

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Insert tubing until it bottoms on seat.
4. Tighten nut with wrench until one thread remains visible on the fitting body; (this will allow for a number of remakes) or, the nut should be screwed down finger tight, then wrench-tightened as indicated in the following table.





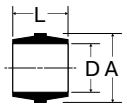


Tube Size	Additional Number of Turns From Hand-Tight
3/16	2-1/2
1/4	3
3/8 &1/2	4
5/8 &3/4	3-1/2

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Sleeve 60NTA





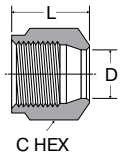
Ref. SAE 100115

Part No.	Tube Size	A	D	L
60NTA-3*	3/16	.255	.194	.23
60NTA-4	1/4	.359	.256	.30
60NTA-6	3/8	.479	.384	.39
60NTA-8	1/2	.624	.509	.43
60NTA-10	5/8	.746	.634	.49
60NTA-12	3/4	.922	.760	.54

*Meets D.O.T. FMVSS 571.106 specification. No applicable SAE specification for this tube size.

Nut 61NTA





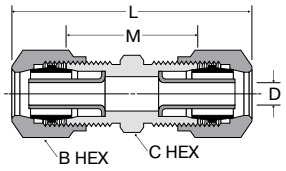
Ref. SAE 100110

Part No.	Tube Size	Straight Thread	C Hex	D	L
61NTA-3*	3/16	5/16-24	7/16	.194	.40
61NTA-4	1/4	7/16-24	9/16	.256	.45
61NTA-6	3/8	17/32-24	5/8	.384	.63
61NTA-8	1/2	11/16-20	13/16	.509	.72
61NTA-10	5/8	13/16-18	15/16	.634	.77
61NTA-12	3/4	1-18	1-1/8	.760	.81

*Meets D.O.T. FMVSS 571.106 specification. No applicable SAE specification for this tube size.

Union 62NTA



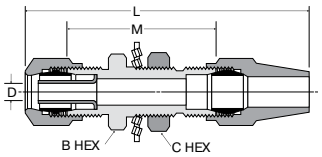


Ref. SAE 100101 BA

Part No.	Tube Size	Straight Thread	B Hex	C Hex	L	M	Flow Dia. D
62NTA-4	1/4	7/16-24	9/16	7/16	1.49	.83	.137
62NTA-6	3/8	17/32-24	5/8	9/16	2.00	1.08	.217
62NTA-8	1/2	11/16-20	13/16	11/16	2.32	1.29	.338
62NTA-10	5/8	13/16-18	15/16	13/16	2.39	1.41	.398
62NTA-12	3/4	1-18	1-1/8	1	2.60	1.58	.523

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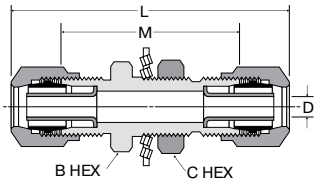




Bulkhead Union 62ANBH (NTA® & Air Brake)

Part No.	Tube Size	Straight Thread	B Hex	C Hex	L	M	Flow Dia. D	Bulkhead Hole Dia.
62ANBH-4	1/4	7/16-24	9/16	9/16	2.28	1.38	.137	7/16
62ANBH-6	3/8	17/32-24	11/16	3/4	2.97	1.62	.217	17/32
62ANBH-8	1/2	11/16-20	13/16	1	3.36	1.88	.338	11/16



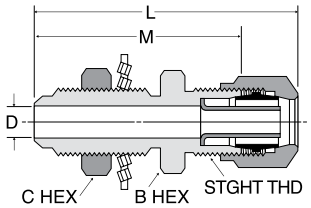


Bulkhead Union 62NBH

Part No.	Tube Size	Straight Thread	B Hex	C Hex	L	M	Flow Dia. D	Bulkhead Hole Dia.
62NBH-3*	3/16	5/16-24	7/16	7/16	1.80	1.21	.087	5/16
62NBH-4	1/4	7/16-24	9/16	9/16	2.04	1.38	.137	7/16
62NBH-6	3/8	17/32-24	11/16	3/4	2.54	1.62	.217	17/32
62NBH-8	1/2	11/16-20	13/16	1	2.92	1.88	.338	11/16
62NBH-10	5/8	13/16-18	15/16	1	2.99	2.01	.398	13/16

*Meets D.O.T. FMVSS 571.106 specification. No applicable SAE specification for this tube size.





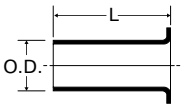
Bulkhead Union 62NFBH

Part No.	Tube Size	Flare Size	Straight Thread	B Hex	C Hex	L	M	Flow Dia. D	Bulkhead Hole Dia.
62NFBH-4	1/4	1/4	7/16-24	9/16	9/16	1.86	1.53	.137	7/16
62NFBH-6	3/8	3/8	17/32-24	3/4	3/4	2.24	1.78	.217	5/8
62NFBH-8	1/2	1/2	11/16-20	7/8	7/8	2.73	2.22	.338	3/4
62NFBH-10	5/8	5/8	13/16-18	1	1	2.68	2.21	.398	7/8
62NFBH-10-8	5/8	1/2	13/16-18	7/8	7/8	2.90	2.40	.398	3/4

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Stainless Steel Insert 63NTA

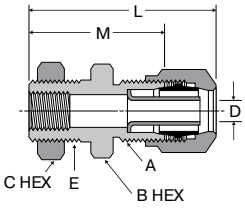




(For SAE J844 Tubing)

Part No.	Tube Size	L	O.D.
63NTA-4	1/4	.53	.163
63NTA-6	3/8	.64	.245
63NTA-8	1/2	.81	.370
63NTA-10	5/8	.86	.434
63NTA-12	3/4	1.04	.559

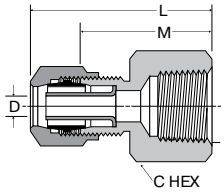




Bulkhead Union 66NBH

Part No.	Tube Size	Pipe Thread	A Straight Thread	E Straight Thread	B Hex	C Hex	L	M	Flow Dia. D	Bulkhead Hole Dia.
66NBH-8-6	1/2	3/8	11/16-20	7/8-14	1-1/16	1-1/16	1.94	1.42	.338	7/8





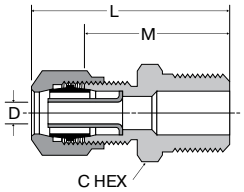
Female Connector 66NTA

Ref. SAE 100103 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. D
66NTA-4-2	1/4	1/8	7/16-24	9/16	1.17	.84	.137
66NTA-4-4	1/4	1/4	7/16-24	11/16	1.40	1.07	.137
66NTA-6-2	3/8	1/8	17/32-24	9/16	1.46	1.00	.217
66NTA-6-4	3/8	1/4	17/32-24	11/16	1.64	1.18	.217
66NTA-6-6	3/8	3/8	17/32-24	7/8	1.64	1.18	.217
66NTA-8-6	1/2	3/8	11/16-20	7/8	1.79	1.27	.338
66NTA-8-8	1/2	1/2	11/16-20	1-1/16	1.96	1.44	.338
66NTA-10-6	5/8	3/8	13/16-18	7/8	1.80	1.31	.398
66NTA-10-8	5/8	1/2	13/16-18	1-1/16	1.99	1.50	.398

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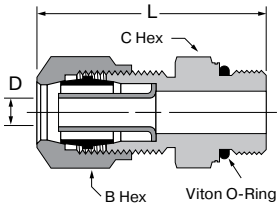
Male Connector VS68NTA

Ref. SAE 100102 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. D
VS68NTA-3-1*	3/16	1/16	5/16-24	3/8	1.16	.87	.087
VS68NTA-3-2*	3/16	1/8	5/16-24	7/16	1.15	.86	.087
VS68NTA-3-4*	3/16	1/4	5/16-24	9/16	1.35	1.05	.087
VS68NTA-4-2	1/4	1/8	7/16-24	7/16	1.22	.89	.137
VS68NTA-4-4	1/4	1/4	7/16-24	9/16	1.43	1.10	.137
VS68NTA-4-6	1/4	3/8	7/16-24	11/16	1.47	1.14	.137
VS68NTA-6-2	3/8	1/8	17/32-24	9/16	1.49	1.03	.217
VS68NTA-6-4	3/8	1/4	17/32-24	9/16	1.67	1.21	.217
VS68NTA-6-6	3/8	3/8	17/32-24	11/16	1.70	1.24	.217
VS68NTA-6-8	3/8	1/2	17/32-24	7/8	1.89	1.43	.217
VS68NTA-8-4	1/2	1/4	11/16-20	11/16	1.85	1.33	.338
VS68NTA-8-6	1/2	3/8	11/16-20	11/16	1.85	1.33	.338
VS68NTA-8-8	1/2	1/2	11/16-20	7/8	2.04	1.52	.338
VS68NTA-10-6	5/8	3/8	13/16-18	13/16	1.88	1.39	.398
VS68NTA-10-8	5/8	1/2	13/16-18	7/8	2.10	1.58	.398
VS68NTA-12-6	3/4	3/8	1-18	1	2.00	1.49	.440
VS68NTA-12-8	3/4	1/2	1-18	1	2.19	1.68	.523
VS68NTA-12-12	3/4	3/4	1-18	1-1/8	2.22	1.71	.523

*Meets D.O.T. FMVSS 571.106 specification. No applicable SAE specification for this tube size.





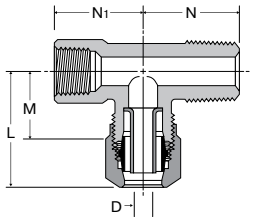
NTA® to Metric Adaptor 68NTA-X-MIX

Part No.	Tube Size	Metric Thread	B Hex	C Hex	L	D
68NTA-4-MI10	1/4	M10 X 1.0	9/16	9/16	1.33	.140

Note: Fluorocarbon o-ring is standard

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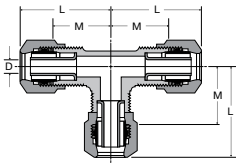




Adapter Tee VS176NTA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	N1	Flow Dia. D
VS176NTA-4-2	1/4	1/8	7/16-24	1.02	.69	.75	.66	.137



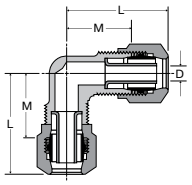


Union Tee 264NTA

Ref. SAE 100401 BA

Part No.	Tube Size	Straight Thread	L	M	Flow Dia. D
264NTA-4	1/4	7/16-24	.95	.62	.137
264NTA-6	3/8	17/32-24	1.24	.78	.217
264NTA-8	1/2	11/16-20	1.45	.93	.338
264NTA-10	5/8	13/16-18	1.58	1.09	.398





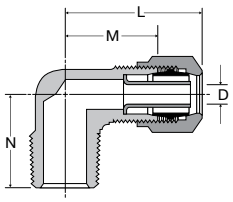
Union Elbow 265NTA

Ref. SAE 100201 BA

Part No.	Tube Size	Straight Thread	L	M	Flow Dia. D
265NTA-4	1/4	7/16-24	.95	.62	.137
265NTA-6	3/8	17/32-24	1.25	.79	.217
265NTA-8	1/2	11/16-20	1.45	.93	.338
265NTA-10	5/8	13/16-18	1.58	1.09	.398

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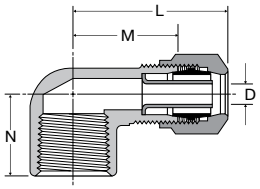
Male Elbow VS269NTA

Ref. SAE 100202 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
VS269NTA-3-2*	3/16	1/8	5/16-24	.90	.61	.67	.087
VS269NTA-3-4*	3/16	1/4	5/16-24	.91	.62	.87	.087
VS269NTA-4-2	1/4	1/8	7/16-24	.95	.62	.67	.137
VS269NTA-4-4	1/4	1/4	7/16-24	1.00	.68	.87	.137
VS269NTA-4-6	1/4	3/8	7/16-24	1.06	.73	.86	.137
VS269NTA-6-2	3/8	1/8	17/32-24	1.19	.73	.75	.217
VS269NTA-6-4	3/8	1/4	17/32-24	1.25	.79	.92	.217
VS269NTA-6-6	3/8	3/8	17/32-24	1.30	.84	.91	.217
VS269NTA-6-8	3/8	1/2	17/32-24	1.40	.94	1.09	.217
VS269NTA-8-4	1/2	1/4	11/16-20	1.38	.86	.99	.338
VS269NTA-8-6	1/2	3/8	11/16-20	1.44	.92	.99	.338
VS269NTA-8-8	1/2	1/2	11/16-20	1.55	1.03	1.18	.338
VS269NTA-10-6	5/8	3/8	13/16-18	1.49	1.00	1.05	.398
VS269NTA-10-8	5/8	1/2	13/16-18	1.58	1.09	1.24	.398
VS269NTA-10-12	5/8	3/4	13/16-18	1.76	1.25	1.32	.398
VS269NTA-12-8	3/4	1/2	1-18	1.70	1.19	1.32	.523
VS269NTA-12-12	3/4	3/4	1-18	1.77	1.26	1.32	.523

*Meets D.O.T. FMVSS 571.106 specification. No applicable SAE specification for this tube size.





Female Elbow 270NTA

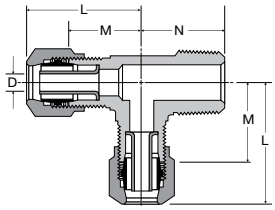
Ref. SAE 100203 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
270NTA-3-2*	3/16	1/8	5/16-24	.96	.67	.52	.087
270NTA-4-2	1/4	1/8	7/16-24	1.02	.69	.52	.137
270NTA-4-4	1/4	1/4	7/16-24	1.11	.78	.71	.137
270NTA-6-2	3/8	1/8	17/32-24	1.29	.83	.58	.217
270NTA-6-4	3/8	1/4	17/32-24	1.35	.89	.77	.217
270NTA-6-6	3/8	3/8	17/32-24	1.39	.93	.77	.217
270NTA-8-6	1/2	3/8	11/16-20	1.55	1.03	.82	.338
270NTA-8-8	1/2	1/2	11/16-20	1.65	1.13	1.01	.338
270NTA-10-8	5/8	1/2	13/16-18	1.70	1.19	1.07	.398

*Meets D.O.T. FMVSS 571.106 specification. No applicable SAE specification for this tube size.

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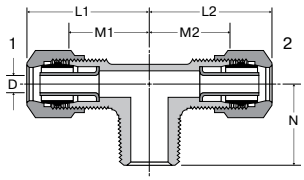


Male Run Tee VS271NTA

Ref. SAE 100424 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
VS271NTA-4-2	1/4	1/8	7/16-24	.95	.62	.66	.137
VS271NTA-4-4	1/4	1/4	7/16-24	1.00	.68	.87	.137
VS271NTA-6-4	3/8	1/4	17/32-24	1.25	.78	.91	.217
VS271NTA-6-6	3/8	3/8	17/32-24	1.30	.84	.91	.217
VS271NTA-8-6	1/2	3/8	11/16-20	1.45	.93	.99	.338
VS271NTA-8-8	1/2	1/2	11/16-20	1.55	1.03	1.18	.338
VS271NTA-10-8	5/8	1/2	13/16-18	1.60	1.09	1.24	.398





Male Branch Tee VS272NTA

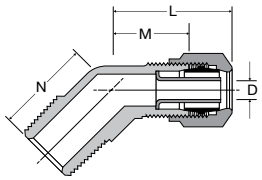
Ref. SAE 100425 BA

Part No.	Tb 1	Tb 2	Pipe Thread	Straight Thread	L1	L2	M1	M2	N	Flow Dia. D
VS272NTA-3-2*	3/16	3/16	1/8	5/16-24	.90	.90	.61	.61	.66	.087
VS272NTA-4-2	1/4	1/4	1/8	7/16-24	.95	.95	.62	.62	.66	.137
VS272NTA-4-4	1/4	1/4	1/4	7/16-24	1.00	1.00	.68	.68	.87	.137
VS272NTA-6-2	3/8	3/8	1/8	17/32-24	1.18	1.18	.75	.75	.73	.217
VS272NTA-6-4	3/8	3/8	1/4	17/32-24	1.25	1.25	.91	.91	.92	.217
VS272NTA-6-4-4	3/8	1/4	1/4	7/16-24 17/32-24	.99	1.25	.67	.79	.91	.137
VS272NTA-6-6	3/8	3/8	3/8	17/32-24	1.27	1.27	.84	.84	.91	.217
VS272NTA-8-4	1/2	1/2	1/4	11/16-20	1.45	1.45	.93	.93	.99	.338
VS272NTA-8-6	1/2	1/2	3/8	11/16-20	1.45	1.45	.93	.93	.99	.338
VS272NTA-8-8	1/2	1/2	1/2	11/16-20	1.55	1.55	1.03	1.03	1.18	.338
VS272NTA-10-8	5/8	5/8	1/2	13/16-18	1.60	1.60	1.09	1.09	1.24	.398

*Meets D.O.T. FMVSS 571.106 specification. No applicable SAE specification for this tube size.

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





45° Elbow VS279NTA

Ref. SAE 100302 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
VS279NTA-4-2	1/4	1/8	7/16-24	.81	.48	.62	.137
VS279NTA-4-4	1/4	1/4	7/16-24	.93	.59	.84	.137
VS279NTA-6-2	3/8	1/8	17/32-24	1.17	.70	.66	.190
VS279NTA-6-4	3/8	1/4	17/32-24	1.17	.70	.84	.217
VS279NTA-6-6	3/8	3/8	17/32-24	1.21	.75	.94	.217
VS279NTA-6-8	3/8	1/2	17/32-24	1.24	.78	1.16	.217
VS279NTA-8-4	1/2	1/4	11/16-20	1.36	.84	.94	.338
VS279NTA-8-6	1/2	3/8	11/16-20	1.36	.84	.94	.338
VS279NTA-8-8	1/2	1/2	11/16-20	1.39	.87	1.16	.338
VS279NTA-10-6	5/8	3/8	13/16-18	1.43	.94	.98	.398
VS279NTA-10-8	5/8	1/2	13/16-18	1.42	.93	1.16	.398
VS279NTA-12-8	3/4	1/2	1-18	1.61	1.10	1.18	.523

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

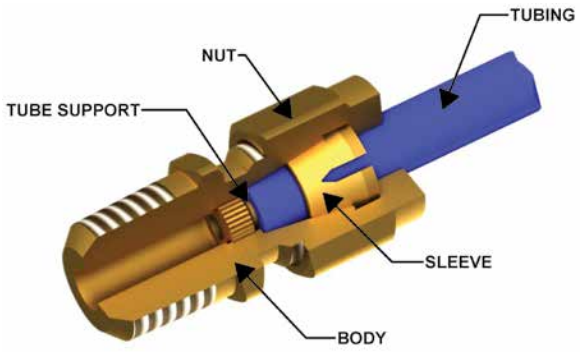


TRANSMISSION FITTINGS

Parker's Transmission Fittings utilizes a specially designed slotted sleeve to help eliminate notch stress related to over-torque. Ideal for pressure protected pneumatic transmission applications. Electroless nickel plated bodies can be used with bio-diesel.

Product Features:

- Brass Body
- D.O.T. Approved with Staked in Tube Support
- 3/16" & 5/32" Tube sizes
- Slotted Sleeve
- Nickel Plated Versions Available for Bio-diesel
- Pre-applied Vibra-Seal thread sealant available



Markets:

- Heavy Duty Truck

Applications:

- Air Shift Transmissions
- Seat Controls
- Dash Controls

Specifications:

Pressure Range	Up to 150 PSI (10.3 bar)
Temperature Range	-40° to +200° F (-40° to +93.3° C)

Compatible Tubing:

- SAE J844 Type A & B nylon tubing

Assembly Instructions

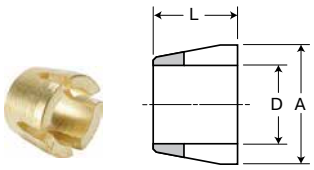
1. Cut tubing squarely and remove burrs
2. Insert tubing into fitting until bottomed
3. Tighten nut 1 1/2 turns from finger tight





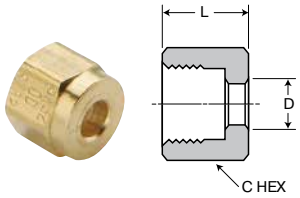


⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



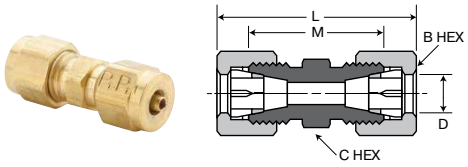
Sleeve 60TF

Part No.	Tube Size	A	D	L
60TF-2	1/8	.235	.130	0.17
60TF-5/32	5/32	.251	.165	0.18



Nut 61TF

Part No.	Tube Size	D	L	Straight Thd	C Hex
61TF-2	1/8	.133	.32	5/16-24	3/8
61TF-5/32	5/32	.163	.32	5/16-24	3/8

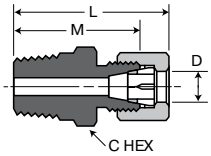


Union 62TF

Part No.	Tube Size	D	L	Straight Thd	M	C Hex	B Hex
62TF-2	1/8	.109	1.04	5/16-24	.68	5/16	3/8
62TF-5/32	5/32	.068	1.04	5/16-24	.68	5/16	3/8

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

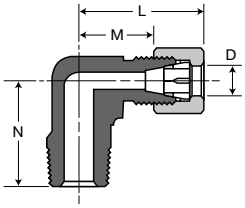




Male Connector 68TF

Part No.	Tube Size	Pipe Thd	D	L	Straight Thd	M	C Hex
68TF-2-1	1/8	1/16	.109	.96	5/16-24	.78	11/32
68TF-2-2	1/8	1/8	.109	.96	5/16-24	.78	7/16
68TF-5/32-1	5/32	1/16	.068	.84	5/16-24	.66	11/32
68TF-5/32-2	5/32	1/8	.068	.96	5/16-24	.78	7/16





Male Elbow 269TF

Part No.	Tube Size	Pipe Thd	D	L	Straight Thd	M	N
269TF-2-2	1/8	1/8	.109	.79	5/16-24	.61	.66
269TF-5/32-2	5/32	1/8	.068	.79	5/16-24	.61	.66

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

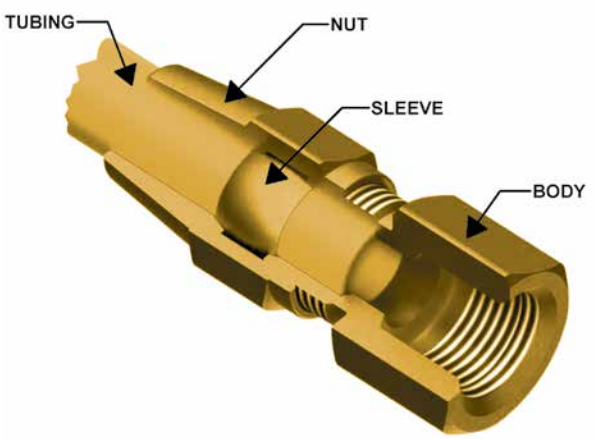


AIR BRAKE – AB FITTINGS

Parker's Air Brake – AB Fittings are economical compression style fittings for copper air brake lines. AB fittings meet the functional requirements of SAE and the performance requirements of D.O.T.

Product Features:

- Brass Body
- Meets D.O.T. FMVSS571.106 Performance
- Meets functional Requirements SAE J246
- Reusable
- Pre-applied Vibra-Seal thread sealant available



Markets:

- Heavy Duty Truck
- Trailer
- Mobile

Applications:

- Copper Air Brake Lines
- Coolant Lines
- Fuel Lines

Specifications:

Pressure Range	Up to 400 PSI (27.5 bar)
Temperature Range	-65˚ to +250˚ F (-53.8° to +121.1° C)

Compatible Tubing:

- Copper Air Brake Tubing

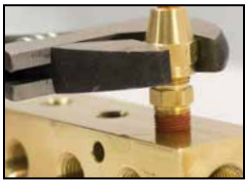
Assembly Instructions

1. Cut tubing squarely and remove burrs
2. Slide nut and sleeve onto tubing.
3. Insert tubing into fitting until bottomed on seat. The nut should be screwed down finger tight, then wrench tightened as indicated in the chart

Tube Size	Turns Required To Seal From Hand-Tight
1/4, 3/8, 1/2	2
5/8, 3/4	3



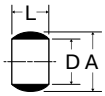




WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Sleeve 60AB



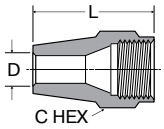


Ref. SAE 120115

Part No.	Tube Size	A	D	L
60AB-4	1/4	.322	.255	.250
60AB-6	3/8	.461	.382	.310
60AB-8	1/2	.594	.507	.380
60AB-10	5/8	.734	.632	.440
60AB-12	3/4	.874	.758	.500

Nut 61AB



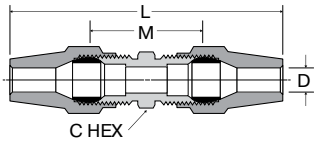


Ref. SAE 120111

Part No.	Tube Size	Straight Thd	C Hex	D	L
61AB-4	1/4	7/16-24	9/16	.256	.75
61AB-6	3/8	17/32-24	5/8	.384	1.13
61AB-8	1/2	11/16-20	13/16	.509	1.25
61AB-10	5/8	13/16-18	15/16	.634	1.38
61AB-12	3/4	1-18	1-1/8	.760	1.56

Union 62AB



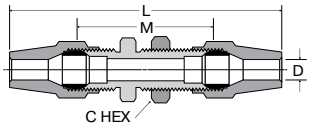


Ref. SAE 120101 BA

Part No.	Tube Size	Straight Thd	C Hex	L	M	Flow Dia. D
62AB-4	1/4	7/16-24	7/16	1.98	.83	.189
62AB-6	3/8	17/32-24	9/16	2.87	1.08	.314
62AB-8	1/2	11/16-20	11/16	3.21	1.29	.405
62AB-10	5/8	13/16-18	13/16	3.59	1.41	.531
62AB-12	3/4	1-18	1	4.08	1.59	.656

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

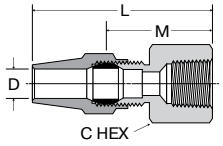




Bulkhead Union 62ABH

Part No.	Tube Size	Straight Thread	C Hex	L	M	Flow Dia. D	Bulkhead Hole Dia.
62ABH-4	1/4	7/16-24	9/16	2.53	1.38	.188	7/16
62ABH-6	3/8	17/32-24	3/4	3.41	1.62	.314	17/32
62ABH-8	1/2	11/16-20	1	3.80	1.88	.408	11/16





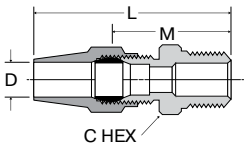
Female Connector 66AB

Ref. SAE 120103 BA

Part No.	Tube Size	Pipe Thd	Straight Thd	L	M	N	Flow Dia. D
66AB-4-2	1/4	1/8	7/16-24	9/16	1.42	.84	.188
66AB-4-4	1/4	1/4	7/16-24	11/16	1.65	1.07	.188
66AB-6-2	3/8	1/8	17/32-24	9/16	1.89	1.00	.314
66AB-6-4	3/8	1/4	17/32-24	11/16	2.07	1.18	.314
66AB-6-6	3/8	3/8	17/32-24	7/8	2.07	1.18	.314
66AB-8-6	1/2	3/8	11/16-20	7/8	2.23	1.27	.408
66AB-8-8	1/2	1/2	11/16-20	1-1/16	2.40	1.44	.408
66AB-10-6	5/8	3/8	13/16-18	7/8	2.40	1.31	.533
66AB-10-8	5/8	1/2	13/16-18	1-1/16	2.59	1.50	.533

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



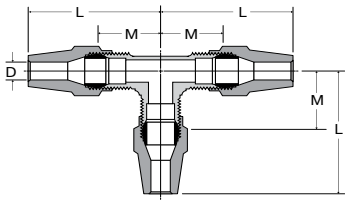


Male Connector VS68AB

Ref. SAE 120102 BA

Part No.	Tube Size	Pipe Thd	Straight Thd	L	M	N	Flow Dia. D
VS68AB-4-2	1/4	1/8	7/16-24	7/16	1.47	.89	.189
VS68AB-4-4	1/4	1/4	7/16-24	9/16	1.68	1.10	.189
VS68AB-4-6	1/4	3/8	7/16-24	11/16	1.72	1.14	.189
VS68AB-6-2	3/8	1/8	17/32-24	9/16	1.92	1.03	.189
VS68AB-6-4	3/8	1/4	17/32-24	9/16	2.10	1.21	.314
VS68AB-6-6	3/8	3/8	17/32-24	11/16	2.13	1.24	.314
VS68AB-6-8	3/8	1/2	17/32-24	7/8	2.32	1.43	.314
VS68AB-8-4	1/2	1/4	11/16-20	11/16	2.29	1.33	.314
VS68AB-8-6	1/2	3/8	11/16-20	11/16	2.29	1.33	.408
VS68AB-8-8	1/2	1/2	11/16-20	7/8	2.48	1.52	.408
VS68AB-10-6	5/8	3/8	13/16-18	13/16	2.48	1.39	.408
VS68AB-10-8	5/8	1/2	13/16-18	7/8	2.67	1.58	.533
VS68AB-12-8	3/4	1/2	1-18	1	2.92	1.68	.533
VS68AB-12-12	3/4	3/4	1-18	1-1/8	2.95	1.71	.658





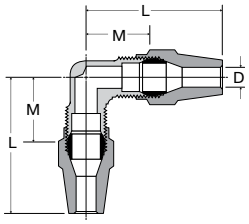
Union Tee 264AB

Ref. SAE 120401 BA

Part No.	Tube Size	Straight Thd	L	M	Flow Dia. D
264AB-4	1/4	7/16-24	1.20	.62	.189
264AB-6	3/8	17/32-24	1.67	.78	.314
264AB-8	1/2	11/16-20	1.89	.93	.408
264AB-10	5/8	13/16-18	2.18	1.09	.533

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



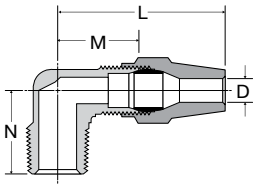


Union Elbow 265AB

Ref. SAE 120201 BA

Part No.	Tube Size	Straight Thd	L	M	Flow Dia. D
265AB-4	1/4	7/16-24	1.20	.62	.189
265AB-6	3/8	17/32-24	1.68	.79	.314
265AB-8	1/2	11/16-20	1.89	.93	.408
265AB-10	5/8	13/16-18	2.18	1.09	.533





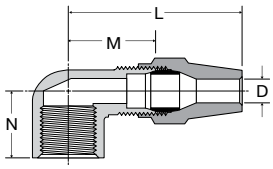
Male Elbow VS269AB

Ref. SAE 120202 BA

Part No.	Tube Size	Pipe Thd	Straight Thd	L	M	N	Flow Dia. D
VS269AB-4-2	1/4	1/8	7/16-24	1.20	.62	.66	.189
VS269AB-4-4	1/4	1/4	7/16-24	1.26	.68	.87	.189
VS269AB-4-6	1/4	3/8	7/16-24	1.31	.73	.86	.189
VS269AB-6-2	3/8	1/8	17/32-24	1.62	.73	.75	.189
VS269AB-6-4	3/8	1/4	17/32-24	1.68	.79	.92	.314
VS269AB-6-6	3/8	3/8	17/32-24	1.73	.84	.91	.314
VS269AB-6-8	3/8	1/2	17/32-24	1.83	.94	1.10	.314
VS269AB-8-4	1/2	1/4	11/16-20	1.82	.86	.99	.314
VS269AB-8-6	1/2	3/8	11/16-20	1.88	.93	.99	.408
VS269AB-8-8	1/2	1/2	11/16-20	1.99	1.03	1.18	.408
VS269AB-10-6	5/8	3/8	13/16-18	2.09	1.00	1.05	.408
VS269AB-10-8	5/8	1/2	13/16-18	2.18	1.09	1.24	.533
VS269AB-12-8	3/4	1/2	1-18	2.33	1.19	1.32	.533
VS269AB-12-12	3/4	3/4	1-18	2.50	1.26	1.32	.533

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



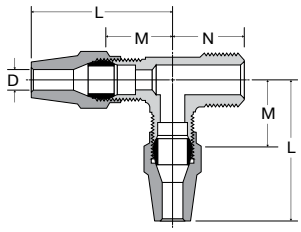


Female Elbow 270AB

Ref. SAE 120203 BA

Part No.	Tube Size	Pipe Thd	Straight Thd	L	M	N	Flow Dia. D
270AB-4-2	1/4	1/8	7/16-24	1.27	.69	.52	.189
270AB-4-4	1/4	1/4	7/16-24	1.36	.78	.71	.189
270AB-6-2	3/8	1/8	17/32-24	1.72	.83	.59	.314
270AB-6-4	3/8	1/4	17/32-24	1.78	.89	.77	.314
270AB-6-6	3/8	3/8	17/32-24	1.82	.93	.77	.314
270AB-8-6	1/2	3/8	11/16-20	1.99	1.03	.82	.408
270AB-8-8	1/2	1/2	11/16-20	2.09	1.13	1.01	.408
270AB-10-8	5/8	1/2	13/16-18	2.28	1.19	1.07	.533





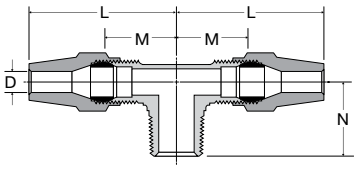
Male Run Tee VS271AB

Ref. SAE 120424 BA

Part No.	Tube Size	Pipe Thd	Straight Thd	L	M	N	Flow Dia. D
VS271AB-4-2	1/4	1/8	7/16-24	1.20	.62	.66	.189
VS271AB-4-4	1/4	1/4	7/16-24	1.26	.68	.87	.189
VS271AB-6-4	3/8	1/4	17/32-24	1.68	.79	.92	.314
VS271AB-6-6	3/8	3/8	17/32-24	1.73	.84	.91	.314
VS271AB-8-6	1/2	3/8	11/16-20	1.89	.93	.99	.408
VS271AB-8-8	1/2	1/2	11/16-20	1.99	1.03	1.18	.408
VS271AB-10-8	5/8	1/2	13/16-18	2.18	1.09	1.24	.533

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



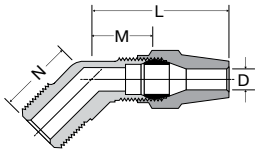


Male Branch Tee VS272AB

Ref. SAE 120425 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
VS272AB-4-2	1/4	1/8	7/16-24	1.20	.62	.66	.189
VS272AB-4-4	1/4	1/4	7/16-24	1.26	.68	.87	.189
VS272AB-6-2	3/8	1/8	17/32-24	1.61	.72	.75	.189
VS272AB-6-4	3/8	1/4	17/32-24	1.68	.79	.92	.314
VS272AB-6-6	3/8	3/8	17/32-24	1.73	.84	.91	.314
VS272AB-8-6	1/2	3/8	11/16-20	1.89	.93	.99	.408
VS272AB-8-8	1/2	1/2	11/16-20	1.99	1.03	1.18	.408
VS272AB-10-8	5/8	1/2	13/16-18	2.18	1.09	1.24	.533





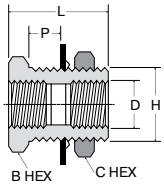
45° Elbow VS279AB

Ref. SAE 120302 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
VS279AB-4-2	1/4	1/8	7/16-24	1.07	.49	.63	.189
VS279AB-4-4	1/4	1/4	7/16-24	1.18	.60	.85	.189
VS279AB-6-2	3/8	1/8	17/32-24	1.60	.71	.68	.189
VS279AB-6-4	3/8	1/4	17/32-24	1.64	.71	.85	.314
VS279AB-6-6	3/8	3/8	17/32-24	1.64	.75	.94	.314
VS279AB-6-8	3/8	1/2	17/32-24	1.67	.78	1.16	.314
VS279AB-8-6	1/2	3/8	11/16-20	1.80	.84	.94	.408
VS279AB-8-8	1/2	1/2	11/16-20	1.83	.87	1.16	.408
VS279AB-10-6	5/8	3/8	13/16-18	2.03	.94	.98	.408
VS279AB-10-8	5/8	1/2	13/16-18	2.13	1.05	1.16	.533
VS279AB-12-8	3/4	1/2	1-18	2.34	1.10	1.18	.533

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov





Anchor Coupling 207ACBH

Part No.	Female Pipe Thd	Straight Thd	Max. Bkhd P	B Hex	C Hex	L	Bkhd Hole Dia. H	Flow Dia. D
207ACBH-2	1/8	5/8-18	.89	7/8	15/16	1.50	5/8	.339
207ACBHS-2	1/8	5/8-18	.35	7/8	15/16	.96	5/8	.339
207ACBH-4	1/4	3/4-16	.81	1	1-1/8	1.50	3/4	.441
207ACBHS-4	1/4	3/4-16	.26	1	1	.94	3/4	.441
207ACBH-6	3/8	1-14	.62	1-1/8	1-1/4	1.31	1	.571
207ACBH-8	1/2	1-1/8-14	.75	1-1/4	1-3/8	1.50	1-1/8	.703
207ACBH-12	3/4	1-5/16-12	.65	1-1/2	1-1/2	1.50	1-5/16	.906
207ACBH-16*	1	1-5/8-14	1.00	2	2	1.68	1-5/8	1.140

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AIR BRAKE HOSE ENDS FITTINGS

Parker's Air Brake Hose Fittings are field attachable fittings for use with Parker 271 air brake hose. Easy to assemble and disassemble, these fittings meet D.O.T. requirements when used with SAE J1402 air brake hose.

Product Features:

- Brass Body
- Meets D.O.T. FMVSS571.106 when used with SAE J1402 air brake hose
- Pre-applied Vibra-Seal thread sealant available

Markets:

- Heavy Duty Truck
- Trailer

Applications:

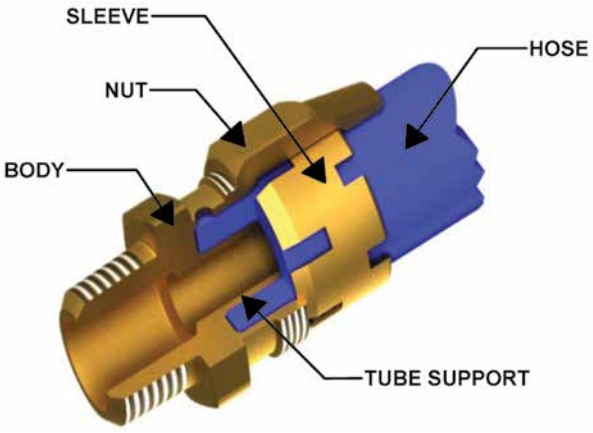
- Air Lines Frame to Axle

Specifications:

Pressure Range	Up to 400 PSI (27.5 bar)
Temperature Range	-65˚ to +250˚ F (-53.8° to +121.1° C)

Compatible Tubing:

- Parker 271 air brake hose
- SAE J1402 air brake hose



Assembly Instructions

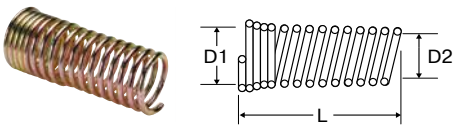
1. Slide nut onto hose
2. Slide sleeve onto hose with tapered edge toward fitting body
3. Bottom hose into fitting
4. Tighten nut until it contacts body hex





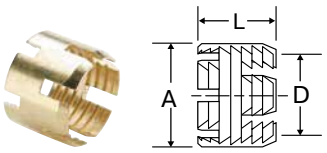
Note: When reassembling fitting, body and nut should be inspected. Only reuse if parts are in proper condition. Sleeves should never be Reused.

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



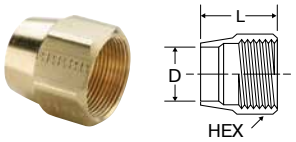
Spring 56RBSG

Part No.	Hose Size	L	D1	D2
56RBSG-6	3/8	2.75	.84	.78
56RBSG-8	1/2	3.00	1.03	.91



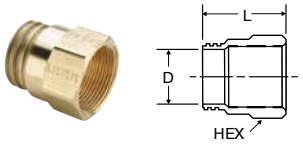
Sleeve 60RB

Part No.	Hose Size	L	A	D
60RB-6	3/8	.69	.90	.78
60RB-8	1/2	.69	1.03	.92



Nut 61RB

Part No.	Hose Size	Straight Thread	Hex	L	D
61RB-6	3/8	31/32-20	1-1/16	1.12	.80
61RB-8	1/2	1-3/32-20	1-1/4	1.12	.93

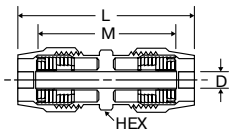


Spring Guard Nut 61RBSG

Part No.	Hose Size	Straight Thread	Hex	L	D
61RBSG-6	3/8	31/32-20	1-1/16	1.22	.80
61RBSG-8	1/2	1-3/32-20	1-1/4	1.19	.92

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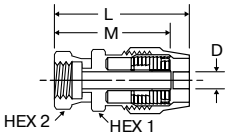




Union 62RB

Part No.	Hose Size	Straight Thread	Hex	L	M	D
62RB-6	3/8	31/32-20	31/32	2.98	2.56	.281
62RB-8	1/2	1-3/32-20	1-1/8	2.99	2.55	.390

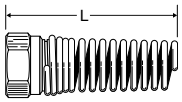




Female Swivel Connector 66RBSV

Part No.	Hose Size	Straight Thread	Hex1	Hex2	L	M	D
66RBSV-6-3/4	3/8	3/4-20	31/32	7/8	2.30	2.09	.281
66RBSV-8-7/8	1/2	7/8-20	1-1/8	1"	2.36	2.14	.390

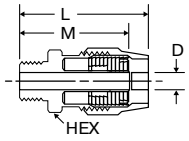




Air Brake Hose Nut & Attached Spring 67RBSG

Part No.	L
67RBSG-6	3.50
67RBSG-8	3.75

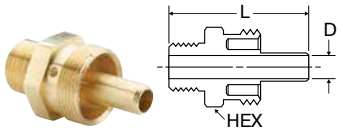




Male Connector 68RB

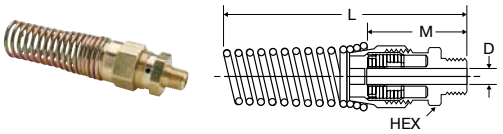
Part No.	Hose Size	Straight Thread	Pipe Thd	Hex	L	M	D
68RB-6-4	3/8	31/32-20	1/4	31/32	2.24	1.91	.281
68RB-6-6	3/8	31/32-20	3/8	31/32	2.24	1.91	.281
68RB-6-8	3/8	31/32-20	1/2	31/32	2.38	2.06	.281
68RB-8-6	1/2	1-3/32-20	3/8	1-1/8	2.24	1.91	.390
68RB-8-8	1/2	1-3/32-20	1/2	1-1/8	2.29	2.07	.390

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



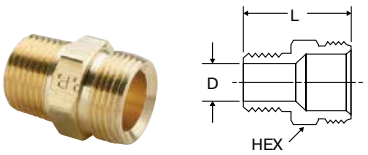
Male Connector Body Only 68RB

Part No.	Hose Size	Straight Thread	Pipe Thd	Hex	L	D
68RB-6-4B	3/8	31/32-20	1/4	31/32	1.91	.281
68RB-6-6B	3/8	31/32-20	3/8	31/32	1.91	.281
68RB-6-8B	3/8	31/32-20	1/2	31/32	2.06	.281
68RB-8-6B	1/2	1-3/32-20	3/8	1-1/8	1.91	.390
68RB-8-8B	1/2	1-3/32-20	1/2	1-1/8	2.07	.390



Male Connector with Spring Guard 68RBSG

Part No.	Hose size	Pipe Thd	Hex	L	M	D
68RBSG-6-4	3/8	1/4	31/32	4.8	1.91	.281
68RBSG-6-6	3/8	3/8	31/32	4.8	1.91	.281
68RBSG-6-8	3/8	1/2	31/32	4.9	2.06	.281
68RBSG-8-6	1/2	3/8	1-1/8	5.0	1.91	.390
68RBSG-8-8	1/2	1/2	1-1/8	5.2	2.07	.390



Adapter 76RB

Part No.	Pipe Thd	Straight Thread	Hex	L	D
76RB-3/4-4	1/4	3/4-20	3/4	1.06	.310
76RB-3/4-6	3/8	3/4-20	3/4	1.12	.422
76RB-7/8-6	3/8	7/8-20	7/8	1.25	.440
76RB-7/8-8	1/2	7/8-20	7/8	1.47	.500

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

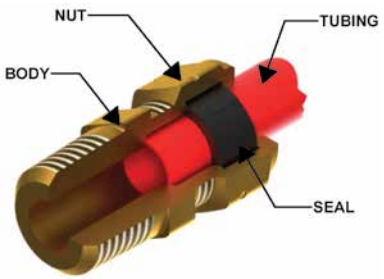


VIBRA-LOK FITTINGS

Parker's Vibra-Lok Fittings provide a positive reliable seal under vibration conditions, mechanical shock or tube movement. The sleeve cushions the tubing, permitting the tubing to flex back and forth in the fitting. The seal design compensates for tube misalignment and tube surface defects.

Product Features:

- Brass Body
- Sleeves in Buna N and Fluorocarbon
- NPTF and SAE J1926 Straight Threads are Standard
- Excellent Vibration Resistance
- Pre-applied Vibra-Seal thread sealant available



Markets:

- Heavy Duty Truck
- Trailer
- Mobile

Applications:

- Oil, Fuel and Coolant Lines on engines

Specifications:

Pressure Range	Dependent on condition and tube size, refer to pressure chart
Temperature Range	-15˚ to +450˚ F (-26.1° to +232.2° C) with Fluorocarbon Sleeve
	-30˚ to +275˚ F (-34.4° to +135° C) with Buna N Sleeve

Compatible Tubing:

- Copper
- Aluminum
- Steel (Bundy)
- Stainless Steel
- Glass

Pressure Chart

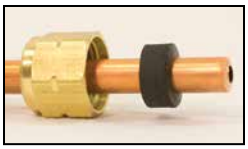
Condition	Tube O.D.	Tube Not Belled	Tube Belled or Flared
Static Pressure	1/8"	500	1000
	3/16"	500	1000
	1/4"	500	1000
	5/16"	450	900
	3/8"	350	700
	1/2"	200	500
	5/8"		400
Minor Surges and/or Vibrations	1/8"	400	800
	3/16"	400	800
	1/4"	400	800
	5/16"	325	700
	3/8"	225	500
	1/2"	150	375
	5/8"		300
Severe Vibrations Or Shock	1/8"	300	600
	3/16"	300	600
	1/4"	300	600
	5/16"	225	500
	3/8"	175	400
	1/2"	100	250
	5/8"		100

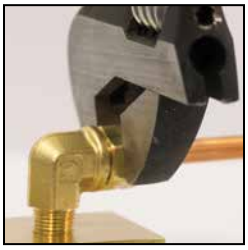
In high pressure applications and sizes larger than 1/2" O.D., the tube end should be belled or flared.

⚠ WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Assembly Instructions

1. Cut the tubing squarely removing burrs
2. Slip nut and sleeve over tube
3. Bottom tubing into fitting and tighten nut until stop is reached. The elastic sleeve ordinarily will extrude slightly around the tube at the end of the nut. This extrusion further aids in isolating the tube from the nut.



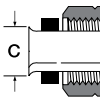




For Higher Pressure applications

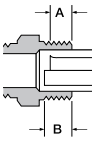
1. Consult pressure chart to determine if tubing should be belled
2. Slip nut and sleeve over tube. The sleeve should be positioned near end of tubing just behind the surface to be belled
3. Bell tubing with standard 45° flaring tool or 90° punch. The size of bell should be approximately that shown.

Recommended Size of Bell



Tube O.D.	Bell Dia. C
1/8	.190-.160
3/16	.255-.225
1/4	.318-.288
5/16	.381-.351
3/8	.444-.414
1/2	.569-.539
5/8	.694-.664
3/4	.819-.789
7/8	.944-.914

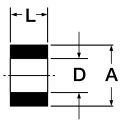
Tube Length Calculator



This table shows distance tube extends beyond face of Vibra-Lok fitting body on installation with bell on tubing and without bell on tubing.

O.D. of Tube	A With Bell	B Without Bell
1/8	3/16	3/16
3/16	3/16	7/32
1/4	3/16	1/4
5/16	3/16	1/4
3/8	3/16	1/4
1/2	3/16	11/32
5/8	3/16	TUBING SHOULD BE BELLED
3/4	3/16	
7/8	1/4	

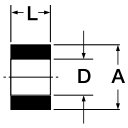




Sleeve 60VL

Part No.	Tube Size	A	D	L
60VL-2	1/8	.306	.100	.20
60VL-3	3/16	.359	.156	.20
60VL-4	1/4	.422	.219	.21
60VL-5	5/16	.484	.281	.24
60VL-6	3/8	.547	.344	.25
60VL-8	1/2	.688	.469	.36
60VL-10	5/8	.875	.594	.48
60VL-12	3/4	1.000	.720	.59



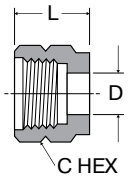


Sleeve (Fluorocarbon) 60VLV

Part No.	Tube Size	A	D	L
60VLV-3	3/16	.359	.156	.20
60VLV-4	1/4	.422	.219	.21
60VLV-5	5/16	.484	.281	.24
60VLV-6	3/8	.547	.344	.25
60VLV-8	1/2	.688	.469	.36
60VLV-10	5/8	.875	.594	.48
60VLV-12	3/4	1.000	.720	.59

⚠ WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

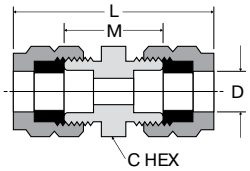




Nut 61VL

Part No.	Tube Size	Straight Thread	C Hex	D	L
61VL-2	1/8	3/8-24	7/16	.156	.44
61VL-3	3/16	7/16-24	1/2	.218	.47
61VL-4	1/4	1/2-24	9/16	.281	.50
61VL-5	5/16	9/16-24	5/8	.344	.53
61VL-6	3/8	5/8-24	3/4	.406	.53
61VL-8	1/2	13/16-18	15/16	.531	.67
61VL-10	5/8	1-18	1-1/8	.656	.88
61VL-12	3/4	1-1/8-18	1-1/4	.781	.98

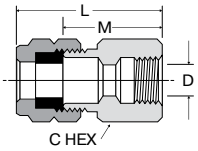




Union 62VL

Part No.	Tube Size	C Hex	L	M	Flow Dia. D
62VL-4	1/4	9/16	1.39	.77	.188
62VL-5	5/16	5/8	1.49	.81	.250
62VL-6	3/8	11/16	1.49	.80	.312
62VL-8	1/2	7/8	1.90	.94	.437



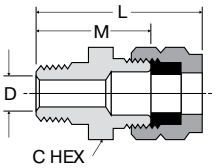


Female Connector 66VL

Part No.	Tube Size	Pipe Thread	C Hex	L	M	Flow Dia. D
66VL-4-2	1/4	1/8	9/16	1.09	.78	.188
66VL-5-4	5/16	1/4	11/16	1.32	.97	.250

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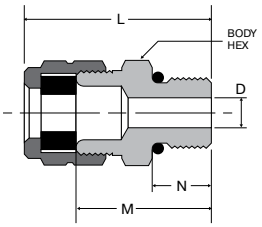




Male Connector 68VL

Part No.	Tube Size	Pipe Thread	C Hex	L	M	Flow Dia. D
68VL-2-2	1/8	1/8	7/16	1.12	.81	.093
68VL-3-2	3/16	1/8	1/2	1.10	.81	.125
68VL-4-2	1/4	1/8	9/16	1.15	.84	.188
68VL-4-4	1/4	1/4	9/16	1.34	1.03	.188
68VL-5-4	5/16	1/4	5/8	1.41	1.06	.250
68VL-6-2	3/8	1/8	11/16	1.22	.87	.235
68VL-6-4	3/8	1/4	11/16	1.41	1.06	.312
68VL-6-6	3/8	3/8	11/16	1.41	1.06	.312
68VL-8-6	1/2	3/8	7/8	1.64	1.16	.406
68VL-8-8	1/2	1/2	7/8	1.64	1.35	.406
68VL-10-8	5/8	1/2	1-1/16	2.10	1.44	.560
68VL-12-8	3/4	1/2	1-3/16	2.26	1.50	.530
68VL-12-12	3/4	3/4	1-3/16	2.26	1.50	.688





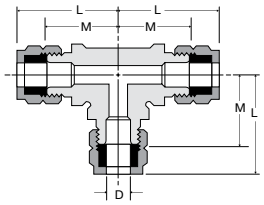
Male Connector 685VLV

Part No.	Tube Size	Straight Thread	Body Hex	L	M	N	D
685VLV-4-4	1/4	7/16-20	9/16	1.14	.83	.36	.18
685VLV-5-4	5/16	7/16-20	5/8	1.18	.83	.36	.18
685VLV-6-4	3/8	7/16-20	11/16	1.18	.83	.36	.18
685VLV-6-6	3/8	9/16-18	11/16	1.25	.90	.39	.30
685VLV-8-8	1/2	3/4-16	7/8	1.52	1.04	.44	.39
685VLV-10-10	5/8	7/8-14	1 1/16	1.84	1.20	.50	.50
685VLV-12-12	3/4	1 1/16-12	1 1/4	2.10	1.34	.59	.62

Note: Fluorocarbon seal & o-ring standard

WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

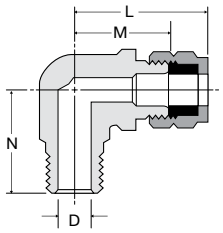




Union Tee 164VL

Part No.	Tube Size	Body Hex	L	M	Flow Dia. D
164VL-3	3/16	3/8	.98	.69	.160
164VL-4	1/4	1/2	1.06	.75	.190
164VL-5	5/16	15/32	1.22	.88	.250
164VL-8	1/2	13/16	1.64	1.16	.406



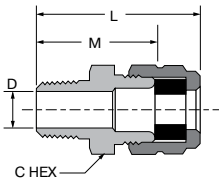


Male Elbow 169VL

Part No.	Tube Size	Pipe Thread	L	M	N	Flow Dia.d
169VL-3-2	3/16	1/8	.98	.69	.75	.156
169VL-4-2	1/4	1/8	1.00	.69	.78	.188
169VL-4-4	1/4	1/4	1.16	.84	1.00	.188
169VL-5-4	5/16	1/4	1.16	.81	1.00	.252
169VL-6-2	3/8	1/8	1.19	.84	.91	.235
169VL-6-4	3/8	1/4	1.19	.84	1.06	.312
169VL-6-6	3/8	3/8	1.29	.94	1.13	.312
169VL-8-6	1/2	3/8	1.48	1.00	1.06	.406
169VL-8-8	1/2	1/2	1.54	1.06	1.44	.406
169VL-10-8	5/8	1/2	1.92	1.28	1.47	.565

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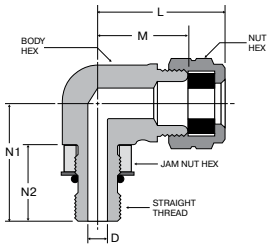




Straight Through Tank Fitting 682VL

Part No.	Tube Size	Pipe Thread	C Hex	L	M	Flow Dia.d
682VL-4-2	1/4	1/8	9/16	1.15	.84	.265
682VL-4-4	1/4	1/4	9/16	1.34	1.03	.265
682VL-5-4	5/16	1/4	5/8	1.41	1.06	.328
682VL-6-6	3/8	3/8	11/16	1.41	1.06	.406





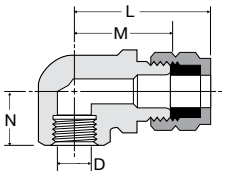
Male Elbow 1695VLV

Part No.	Tube Size	Straight Thread	Nut Hex	Body Hex	Jam Nut Hex	L	M	N1	N2	D
1695VLV-4-4	1/4	7/16-20	9/16	9/16	9/16	1.15	.84	1.07	.71	.18
1695VLV-5-4	5/16	7/16-20	5/8	9/16	9/16	1.16	.81	1.07	.71	.18
1695VLV-6-4	3/8	7/16-20	3/4	5/8	9/16	1.19	.84	1.10	.71	.18
1695VLV-6-6	3/8	9/16-18	3/4	5/8	11/16	1.29	.94	1.17	.78	.30
1695VLV-8-8	1/2	3/4-16	15/16	3/4	7/8	1.54	1.06	1.44	.89	.39
1695VLV-10-10	5/8	7/8-14	1 1/8	1.00	1.00	1.92	1.28	1.68	1.03	.50
1695VLV-12-12	3/4	1 1/16-12	1 1/4	1.00	1 1/4	2.04	1.28	1.82	1.17	.62

Note: Fluorocarbon seal & o-ring standard

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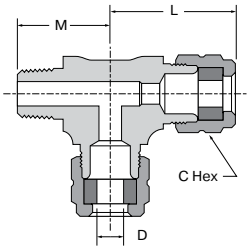




Female Elbow 170VL

Part No.	Tube Size	Pipe Thread	L	M	N	Flow Dia. D
170VL-4-2	1/4	1/8	.96	.65	.50	.188
170VL-5-4	5/16	1/4	1.16	.81	.70	.250

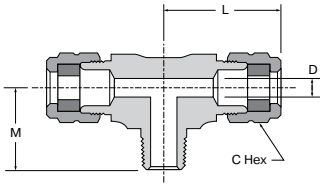




Male Run Tee 171VL

Part No.	Tube Size	Pipe Thread	C Hex	L	M	Flow Dia. D
171VL-4-2	1/4	1/8	9/16	1.03	.76	.188

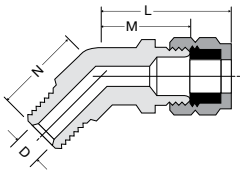




Male Branch Tee 172VL

Part No.	Tube Size	Pipe Thread	C Hex	L	M	Flow Dia.D
172VL-4-2	1/4	1/8	9/16	1.06	.75	.188





45° Elbow 179VL

Part No.	Tube Size	Pipe Thread	L	M	N	Flow Dia.D
179VL-4-2	1/4	1/8	1.06	.75	.69	.188
179VL-6-4	3/8	1/4	1.07	.72	.84	.315

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TRUCK VALVES & LANYARD VALVE

Parker's Truck Valves have metal-to-metal seats with fine thread screwdown. Parker's Lanyard Valves' compact design is ideally suited for releasing condensate from air tanks.

Product Features:

Truck Valves

- Brass Body and Stem
- Flare, Hose, Tube and Pipe Connections
- Round and Pin Handles

Lanyard Valve

- Low Temperature Seal
- All Brass Body
- Manual Release

Markets:

- Heavy Duty Truck
- Trailer
- Mobile

Applications:

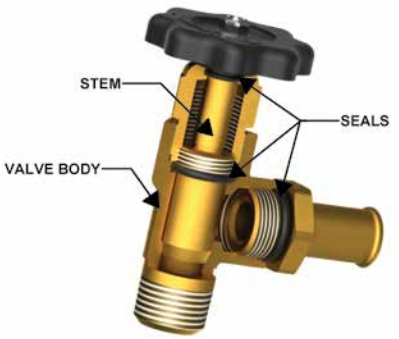
- Water
- Oil
- Coolant lines

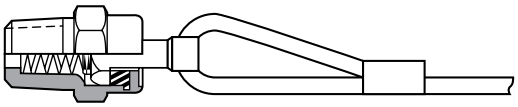
Truck Valve Specifications:

Pressure Range	Up to 150 PSI (10.3 bar)
Temperature Range	-30° to +250° F (-34.4° to +121.1° C)

Lanyard Valve Specifications:

Pressure Range	Up to 150 PSI (10.3 bar)
Temperature Range	-40° to +200° F (-40° to +93.3° C)

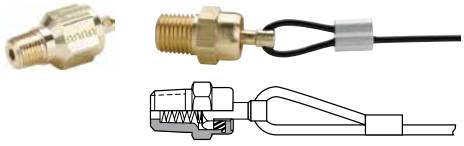




Lanyard Valve Operating Instructions

A pulling action exerted on the cable cocks the stem, allowing condensate to pass through the valve. Releasing the cable resets the stem which returns the valve to its closed position.

LV91HF-4-SUB



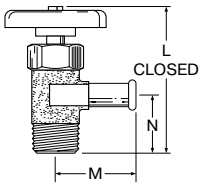
Lanyard Valve LV91

Temperature Range: -40° to +200° F (-40° to +93.3° C)

Part No.	Pipe Thd	Cable Length Inches
LV91-4-036	1/4	36
LV91-4-048	1/4	48
LV91-4-060	1/4	60
LV91HF-4-SUB	1/4	--

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



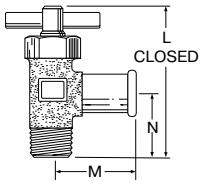


Truck Valve V404P Hose to Male Pipe

Temperature Range: -30˚ to +250˚ F (-34.4° to +121.1° C)

Part No.	Hose I.D.	Pipe Thd	Flow	L	M	N
V404P-6-6	3/8	3/8	.281	2.35	1.36	.94
V404P-10-6	5/8	3/8	.406	2.75	1.31	1.10



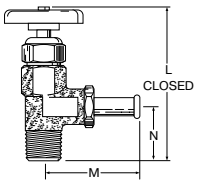


Truck Valve V404PH Hose to Male Pipe with Pin Handle

Temperature Range: -30˚ to +250˚ F (-34.4° to +121.1° C)

Part No.	Hose I.D.	Pipe Thd	Flow	L	M	N
V404PH-10-6	5/8	3/8	.406	2.47	1.31	1.10



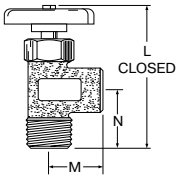


Truck Valve SV404P Hose to Male Pipe

Temperature Range: -30˚ to +250˚ F (-34.4° to +121.1° C)

Part No.	Hose I.D.	Pipe Thd	Flow	L	M	N
SV404P-10-8	5/8	1/2	.468	3.71	2.31	1.34
SV404P-12-6	3/4	3/8	.438	3.73	2.31	1.34
SV404P-12-8	3/4	1/2	.562	3.73	2.31	1.34





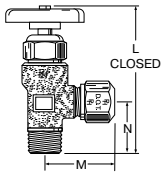
Truck Valve V405P Female Pipe to Male Pipe

Temperature Range: -30˚ to +250˚ F (-34.4° to +121.1° C)

Part No.	Female Pipe Thd	Male Pipe Thd	Flow	L	M	N
V405P-6-6	3/8	3/8	.406	2.72	.91	1.19
V405P-6-8	3/8	1/2	.406	2.95	.91	1.31
V405P-8-8	1/2	1/2	.562	3.15	1.17	1.34

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



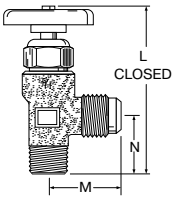


Truck Valve V408NTA Tube to Male Pipe

Temperature Range: -30˚ to +250˚ F (-34.4° to +121.1° C)

Part No.	Hose I.D.	Pipe Thd	Flow	L	M	N
V408NTA-8-8	1/2	1/2	.328	3.28	1.15	1.19



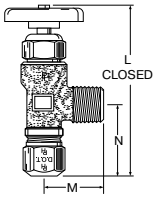


Truck Valve V409F Flare to Male Pipe

Temperature Range: -30˚ to +250˚ F (-34.4° to +121.1° C)

Part No.	Hose I.D.	Pipe Thd	Flow	L	M	N
V409F-8-6	1/2	3/8	.406	3.07	1.31	1.00
V409F-8-8	1/2	1/2	.406	3.28	1.31	1.19
V409F-10-8	5/8	1/2	.500	3.47	1.50	1.25
V409F-12-8	3/4	1/2	.562	3.70	2.31	1.34



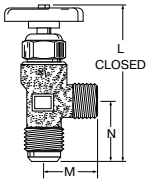


Truck Valve V410NTA Tube to Male Pipe

Temperature Range: -30˚ to +250˚ F (-34.4° to +121.1° C)

Part No.	Hose I.D.	Pipe Thd	Flow	L	M	N
V410NTA-8-8	1/2	1/2	.328	3.58	1.38	1.31





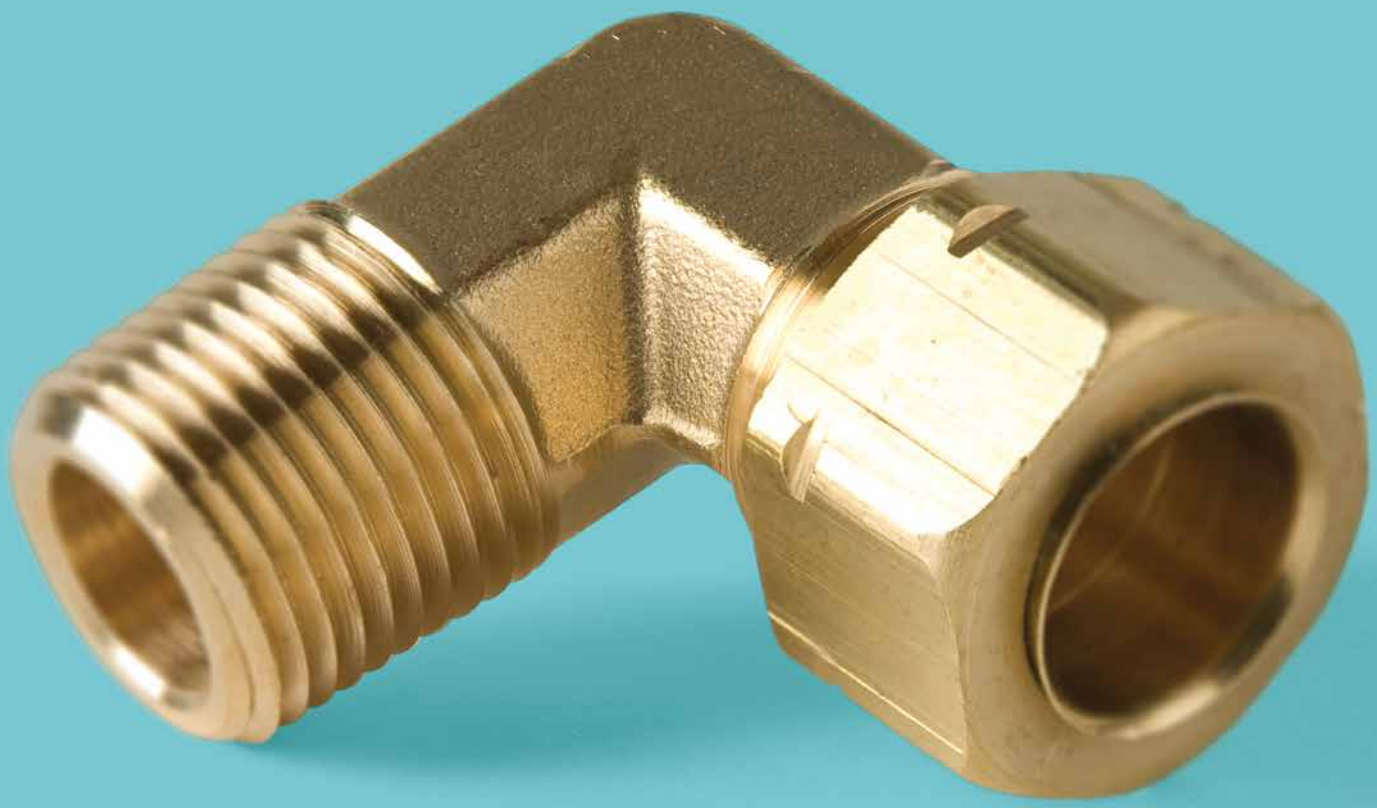
Truck Valve V412F Tube to Male Pipe

Temperature Range: -30˚ to +250˚ F (-34.4° to +121.1° C)

Part No.	Hose I.D.	Pipe Thd	Flow	L	M	N
V412F-10-8	5/8	1/2	.500	3.60	1.38	1.31

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Notes



INDUSTRIAL COMPRESSION STYLE FITTINGS

Compression Fittings, Compress-Align® Fittings, Brass Metric Compression, Poly-Tite Fittings, Hi-Duty Flareless Tube Fittings

Parker

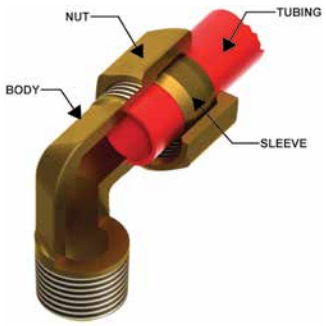
COMPRESSION FITTINGS



Parker's Compression Fittings provide users with an economical choice with numerous connection options for a wide variety of tube materials without the need for flaring, soldering or other tube preparation necessary to assemble.

Product Features:

- Meets functional requirements of SAE J-512
- UL Listed for flammable liquid
- Brass or acetal sleeve available
- No tube preparation
- Forged and extruded shapes
- Pre-applied Vibra-Seal thread sealant available



Markets:

- Industrial
- Packaging
- Pneumatic
- Printing

Applications:

- Air lines
- Lubrication Lines
- Cooling lines
- Industry
- Machinery
- Compressors
- Fluid transfer

Compatible Tubing:

- Copper
- Aluminum
- Thermoplastic tubing

Specifications:

Temperature Range: -65° to +250° F (- 53.8° to +121.1° C)

Pressure Range:

Tube Size	psi	bar	Tube Size	psi	bar
1/8	2800	193.0	7/16	900	62.05
3/16	1900	131.0	1/2	750	51.7
1/4	1400	96.5	5/8	650	44.8
5/16	1200	82.7	3/4	550	37.9
3/8	1000	68.9	7/8	450	24.1

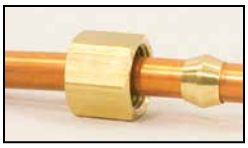
Note: Pressures listed in above table are with brass sleeve and copper tubing

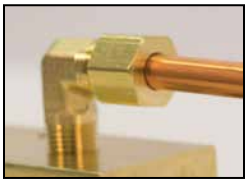
WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

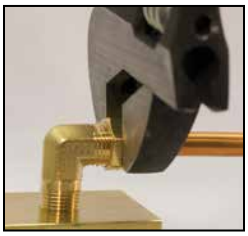
COMPRESSION FITTINGS

Assembly Instructions

1. Slide nut then sleeve onto tubing. The thread end of the nut must face out.
2. Insert tube and bottom on the fitting shoulder
3. Assemble nut to body and tighten "hand tight". Then wrench tighten the number of turns indicated in the table.



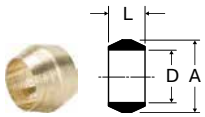




Fitting Size	Tube Size	Turns Required To Seal From Hand-Tight	
		60c with Soft Metal Tubing	60pt with Thermoplastic Tubing
2	1/8	1-1/4	—
3	3/16	1-1/4	—
4	1/4	1-1/4	2
5	5/16	1-1/4	2
6	3/8	2-1/4	2
7	7/16	2-1/4	—
8	1/2	2-1/4	2
10	5/8	2-1/4	2
12	3/4	2-1/4	2
14	7/8	2-1/4	—

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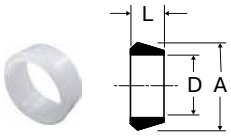
Sleeve 60C



Ref. SAE 060115

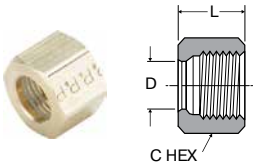
Part No.	Tube Size	A	D	L
60C-2	1/8	.187	.130	.19
60C-3	3/16	.266	.192	.22
60C-4	1/4	.344	.255	.25
60C-5	5/16	.406	.318	.25
60C-6	3/8	.469	.382	.25
60C-7	7/16	.531	.444	.31
60C-8	1/2	.594	.507	.38
60C-10	5/8	.719	.632	.38
60C-12	3/4	.875	.758	.44
60C-14	7/8	1.000	.883	.41

Acetal Sleeve 60PT



Part No.	Plastic Tube Wall	Tube Wall	A	D	L
60PT-4	1/4	.040	.375	.254	.19
60PT-5	5/16	.062	.438	.317	.19
60PT-6	3/8	.062	.500	.379	.19
60PT-8	1/2	.062	.631	.507	.25
60PT-10	5/8	.062	.747	.632	.22

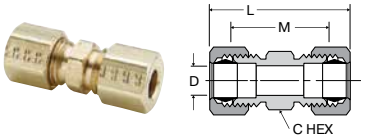
Nut 61C



Ref. SAE 060110

Part No.	Tube Size	Straight Thread	C Hex	D	L
61C-2	1/8	5/16-24	3/8	.130	.38
61C-3	3/16	3/8-24	7/16	.192	.41
61C-4	1/4	7/16-24	1/2	.255	.44
61C-5	5/16	1/2-24	9/16	.318	.44
61C-6	3/8	9/16-24	5/8	.382	.47
61C-7	7/16	5/8-24	11/16	.444	.50
61C-8	1/2	11/16-20	13/16	.507	.62
61C-10	5/8	13/16-18	15/16	.632	.62
61C-12	3/4	1-18	1-3/16	.758	.69
61C-14	7/8	1-1/8-18	1-1/4	.890	.62

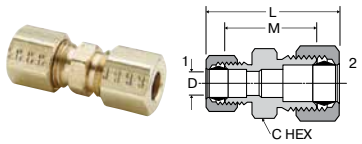
WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Union 62C

Ref. SAE 060101 BA

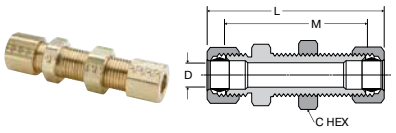
Part No.	Tube Size	Straight Thread	C Hex	L	M	Flow Dia. D
62C-2	1/8	5/16-24	5/16	1.05	.64	.094
62C-3	3/16	3/8-24	3/8	1.21	.72	.125
62C-4	1/4	7/16-24	7/16	1.33	.79	.188
62C-5	5/16	1/2-24	1/2	1.39	.85	.250
62C-6	3/8	9/16-24	9/16	1.52	.97	.312
62C-7	7/16	5/8-24	5/8	1.70	1.02	.312
62C-8	1/2	11/16-20	11/16	1.90	1.08	.406
62C-10	5/8	13/16-18	13/16	2.06	1.23	.500
62C-12	3/4	1-18	1	2.37	1.41	.562
62C-14	7/8	1-1/8-18	1-1/8	2.07	1.19	.766



Union Reducers 62C

Ref. SAE 060101 BA

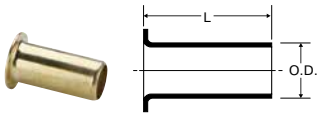
Part No.	1 Tube Size	2 Tube Size	1 Straight Thread	2 Straight Thread	C Hex	L	M	Flow Dia. D
62C-4-3	3/16	1/4	3/8-24	7/16-24	7/16	1.29	.78	.125
62C-6-4	1/4	3/8	7/16-24	9/16-24	9/16	1.46	.91	.188
62C-8-6	3/8	1/2	9/16-24	11/16-20	11/16	1.71	1.03	.312
62C-10-6	3/8	5/8	9/16-24	13/16-18	13/16	1.82	1.13	.312



Bulkhead Union 62CBH

Part No.	Tube Size	Straight Thread	C Hex	L	M	Bulkhead Hole Dia.	Flow Dia. D
62CBH-4	1/4	7/16-24	9/16	2.29	1.75	7/16	.188
62CBH-6	3/8	9/16-24	11/16	2.42	1.88	9/16	.312

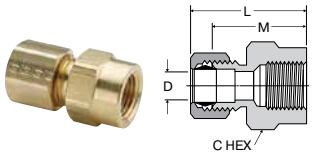
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Brass Insert 63PT

Part No.	Tube O.D.	Tube Wall	L	O.D.
63PT-2-16	1/8	.016	.46	.080
63PT-2-23	1/8	.023	.45	.073
63PT-3-25	3/16	.025	.45	.135
63PT-3-40	3/16	.040	.52	.095
63NTA-4*	1/4	.040	.53	.163
63PT-4-62	1/4	.062	.33	.110
63PT-5-40	5/16	.040	.50	.232
63PT-5-62	5/16	.062	.53	.187
63NTA-6*	3/8	.062	.64	.245
63NTA-8*	1/2	.062	.81	.370
63PT-10-62	5/8	.062	.72	.483

* Denotes 304 stainless steel

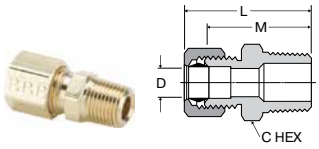


Female Connector 66C

Ref. SAE 060103 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. D
66C-2-2	1/8	1/8	5/16-24	9/16	.95	.75	.094
66C-3-2	3/16	1/8	3/8-24	9/16	1.02	.78	.125
66C-3-4	3/16	1/4	3/8-24	11/16	1.20	.96	.125
66C-4-2	1/4	1/8	7/16-24	9/16	1.02	.78	.188
66C-4-4	1/4	1/4	7/16-24	11/16	1.24	1.00	.188
66C-5-2	5/16	1/8	1/2-24	9/16	1.07	.81	.250
66C-5-4	5/16	1/4	1/2-24	11/16	1.29	1.03	.250
66C-6-2	3/8	1/8	9/16-24	9/16	1.06	.78	.312
66C-6-4	3/8	1/4	9/16-24	11/16	1.34	1.06	.312
66C-6-6	3/8	3/8	9/16-24	13/16	1.34	1.06	.312
66C-6-8	3/8	1/2	9/16-24	1	1.54	1.27	.312
66C-7-6	7/16	3/8	5/8-24	13/16	1.43	1.09	.312
66C-8-4	1/2	1/4	11/16-20	11/16	1.49	1.09	.406
66C-8-6	1/2	3/8	11/16-20	13/16	1.52	1.12	.406
66C-8-8	1/2	1/2	11/16-20	1	1.71	1.31	.406
66C-10-8	5/8	1/2	13/16-18	1	1.80	1.38	.500

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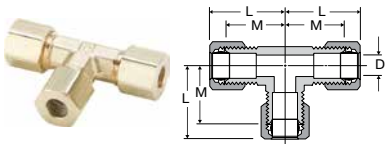


Male Connector 68C

Ref. SAE 060102 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. D
68C-2-1	1/8	1/16	5/16-24	3/8	.99	.78	.095
68C-2-2	1/8	1/8	5/16-24	7/16	.97	.77	.094
68C-3-1	3/16	1/16	3/8-24	3/8	1.08	.84	.125
68C-3-2	3/16	1/8	3/8-24	7/16	1.08	.84	.125
68C-3-4	3/16	1/4	3/8-24	9/16	1.27	1.03	.125
68C-4-2	1/4	1/8	7/16-24	7/16	1.10	.86	.188
68C-4-4	1/4	1/4	7/16-24	9/16	1.30	1.06	.188
68C-4-6	1/4	3/8	7/16-24	11/16	1.27	1.03	.188
68C-4-8	1/4	1/2	7/16-24	7/8	1.55	1.31	.188
68C-5-2	5/16	1/8	1/2-24	1/2	1.15	.89	.234
68C-5-4	5/16	1/4	1/2-24	9/16	1.33	1.07	.250
68C-6-2	3/8	1/8	9/16-24	9/16	1.25	.97	.250
68C-6-4	3/8	1/4	9/16-24	9/16	1.42	1.14	.312
68C-6-6	3/8	3/8	9/16-24	11/16	1.44	1.16	.312
68C-6-8	3/8	1/2	9/16-24	7/8	1.53	1.25	.312
68C-7-4	7/16	1/4	5/8-24	5/8	1.50	1.17	.312
68C-8-4	1/2	1/4	11/16-20	11/16	1.60	1.20	.312
68C-8-6	1/2	3/8	11/16-20	11/16	1.60	1.20	.406
68C-8-8	1/2	1/2	11/16-20	7/8	1.71	1.31	.406
68C-10-6	5/8	3/8	13/16-18	13/16	1.73	1.31	.406
68C-10-8	5/8	1/2	13/16-18	7/8	1.90	1.48	.500
68C-10-12	5/8	3/4	13/16-18	1-1/16	1.98	1.56	.500
68C-12-8	3/4	1/2	1-18	1	2.05	1.60	.562
68C-12-12	3/4	3/4	1-18	1-1/16	2.08	1.63	.656
68C-14-12	7/8	3/4	1-1/8-18	1-1/8	1.76	1.41	.750

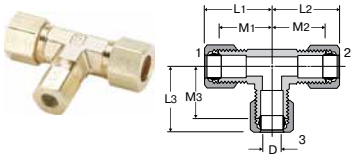
WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Union Tee 164C-264C

Ref. SAE 060401 BA

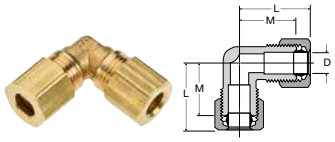
Part No.	Tube Size	Straight Thread	L	M	Flow Dia. D
164C-2	1/8	5/16-24	.82	.61	.094
264C-3	3/16	3/8-24	.84	.60	.125
164C-4	1/4	7/16-24	.86	.63	.188
164C-5	5/16	1/2-24	.98	.71	.250
164C-6	3/8	9/16-24	1.03	.74	.312
164C-8	1/2	11/16-20	1.34	.93	.406
164C-10	5/8	13/16-18	1.54	1.08	.500
164C-12	3/4	1.00-18	1.65	1.17	.563



Union Tee 164C-264C Combination Sizes

Ref. SAE 060401 BA

Part No.	1 Tube Size	2 Tube Size	3 Tube Size	L1	L2	L3	M1	M2	M3	Flow Dia. D
164C-6-4-4	3/8	1/4	1/4	1.03	.96	.96	.75	.72	.72	.188
164C-6-6-4	3/8	3/8	1/4	1.03	.96	.96	.75	.75	.72	.188
164C-8-8-6	1/2	1/2	3/8	1.34	1.16	1.16	.94	.94	.88	.312



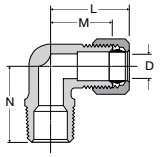
Union Elbow 165C

Ref. SAE 060201 BA

Part No.	Tube Size	Straight Thread	L	M	Flow Dia. D
165C-2	1/8	5/16-24	.82	.61	.094
165C-3	3/16	3/8-24	.87	.61	.125
165C-4	1/4	7/16-24	.89	.62	.188
165C-5	5/16	1/2-24	.95	.71	.250
165C-6	3/8	9/16-24	1.03	.74	.312
165C-7	7/16	5/3-24	1.16	.82	.312
165C-8	1/2	11/16-20	1.34	.93	.406
165C-10	5/8	13/16-18	1.48	1.05	.500
165C-12	3/4	1-18	1.65	1.17	.563

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Male Elbow 169C-269C

Ref. SAE 060202 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
169C-2-1	1/8	1/16	5/16-24	.81	.60	.67	.095
269C-2-2	1/8	1/8	5/16-24	.80	.60	.67	.094
169C-3-1	3/16	1/16	3/8-24	.85	.61	.67	.126
169C-3-2	3/16	1/8	3/8-24	.83	.60	.67	.125
169C-3-4	3/16	1/4	3/8-24	.86	.64	.93	.125
169C-4-2	1/4	1/8	7/16-24	.87	.60	.73	.188
169C-4-4	1/4	1/4	7/16-24	.87	.60	.80	.188
169C-4-6	1/4	3/8	7/16-24	.93	.68	1.00	.188
169C-5-2*	5/16	1/8	1/2-24	.88	.61	.74	.234
169C-5-4	5/16	1/4	1/2-24	.95	.71	.93	.250
169C-5-6	5/16	3/8	1/2-24	1.01	.75	1.00	.250
169C-6-2*	3/8	1/8	9/16-24	1.03	.74	.74	.234
169C-6-4	3/8	1/4	9/16-24	1.03	.74	.93	.312
169C-6-6	3/8	3/8	9/16-24	1.03	.75	1.00	.312
169C-6-8	3/8	1/2	9/16-24	1.22	.94	1.27	.312
269C-7-6	7/16	3/8	5/8-24	1.16	.82	.98	.312
169C-8-4*	1/2	1/4	11/16-20	1.34	.94	1.00	.312
169C-8-6	1/2	3/8	11/16-20	1.34	.93	1.11	.406
169C-8-8	1/2	1/2	11/16-20	1.48	1.00	1.37	.406
169C-10-8	5/8	1/2	13/16-18	1.48	1.06	1.31	.500
169C-12-8	3/4	1/2	1-18	1.64	1.18	1.49	.562
169C-12-12	3/4	3/4	1-18	1.70	1.27	1.58	.562

* For these parts the pipe thread through hole is smaller than the through hole on the flare end.

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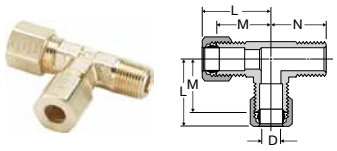
Female Elbow 170C



Ref. SAE 060203 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
170C-2-2	1/8	1/8	5/16-24	.89	.69	.56	.094
170C-3-2	3/16	1/8	3/8-24	.98	.69	.56	.125
170C-4-2	1/4	1/8	7/16-24	.95	.67	.54	.188
170C-4-4	1/4	1/4	7/16-24	1.02	.78	.67	.188
170C-6-4	3/8	1/4	9/16-24	1.06	.79	.73	.312
170C-6-6	3/8	3/8	9/16-24	1.22	.89	.69	.312
170C-7-4	7/16	1/4	5/8-24	1.27	.93	.73	.312
170C-8-6	1/2	3/8	11/16-20	1.34	1.00	.69	.406
170C-8-8	1/2	1/2	11/16-20	1.56	1.15	.97	.408
170C-12-12	3/4	3/4	1-18	2.06	1.58	1.58	.563

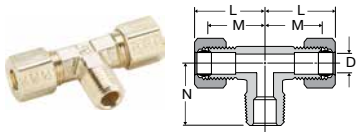
Male Run Tee 171C



Ref. SAE 060424 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
171C-2-2	1/8	1/8	5/16-24	.82	.61	.67	.094
171C-3-2	3/16	1/8	3/8-24	.86	.61	.67	.125
171C-4-2	1/4	1/8	7/16-24	.90	.64	.75	.188
171C-4-4	1/4	1/4	7/16-24	.93	.69	.92	.188
171C-6-4	3/8	1/4	9/16-24	1.09	.81	1.03	.312

Male Branch Tee 172C



Ref. SAE 060425 BA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
172C-2-2	1/8	1/8	5/16-24	.82	.61	.67	.094
172C-3-2	3/16	1/8	3/8-24	.86	.61	.67	.125
172C-4-2	1/4	1/8	7/16-24	.86	.61	.74	.188
172C-4-4	1/4	1/4	7/16-24	.93	.69	.92	.188
172C-6-2	3/8	1/8	9/16-24	1.03	.75	.75	.234
172C-6-4	3/8	1/4	9/16-24	1.09	.77	.92	.312
172C-6-6	3/8	3/8	9/16-24	1.09	.81	1.00	.312
172C-8-6	1/2	3/8	11/16-20	1.34	.93	1.10	.406

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Adapter Tee 176C

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	N1	Flow Dia. D
176C-4-2	1/4	1/8	7/16-24	.93	.69	.75	.66	.188



Female Branch Tee 177C

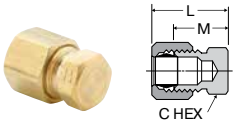
Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
177C-4-2	1/4	1/8	7/16-24	.86	.63	.53	.188



45° Elbow 179C

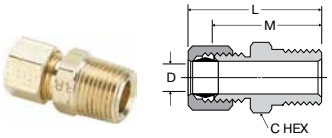
Compression to male pipe

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
179C-4-2	1/4	1/8	7/16-24	.76	.48	.56	.188
179C-4-4	1/4	1/4	7/16-24	.80	.56	.84	.188
179C-6-2	3/8	1/8	9/16-24	.90	.63	.65	.234
179C-6-4	3/8	1/4	9/16-24	.90	.63	.84	.312
179C-6-6	3/8	3/8	9/16-24	.97	.75	.95	.312
179C-8-6	1/2	3/8	11/16-20	1.15	.81	.95	.406



Seal Plug 639C

Part No.	Tube Size	Straight Thread	C Hex	L	M
639C-4	1/4	7/16-24	7/16	.74	.50



Straight Through Tank Fitting 682C

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. D
682C-3-2	3/16	1/8	3/8-24	7/16	1.06	.84	.195
682C-6-6	3/8	3/8	9/16-24	11/16	1.44	1.16	.387
682C-8-8	1/2	1/2	11/16-20	7/8	1.90	1.31	.516

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COMPRESS-ALIGN® FITTINGS



Parker's Compress-Align Fittings are pre-assembled with a captive sleeve, always oriented for a faster installation. The design of the captive sleeve aligns to seal even out-of-round tubing.

Product Features:

- Self-aligning captive sleeve
- 2-piece fitting – Less inventory
- Visible inspection before and after installation
- 1/8" – 1" Sizes
- No flaring, soldering or other tube preparation
- Forged and extruded shapes
- Pre-applied Vibra-Seal thread sealant available

Markets:

- Industrial
- Packaging
- Pneumatic
- Printing
- Chemical

Applications:

- Air lines
- Lubrication Lines
- Cooling lines
- Industry
- Machinery
- Chemical Dispensing
- Compressors
- Fluid transfer

Compatible Tubing:

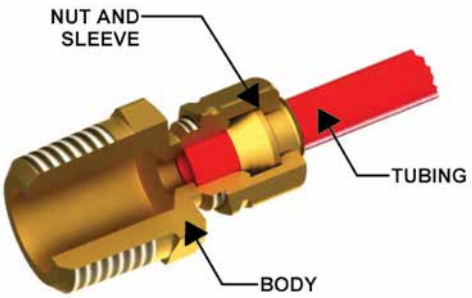
- Copper, Aluminum
- Thermoplastic tubing
- TFE, FEA, PFA

Specifications:

Temperature Range: -65° to +250° F (-53.8° to +121.1° C)

Pressure Range:

Tube Size	Psi	Bar	Tube Size	Psi	Bar
1/8	2800	193.0	1/2	750	51.7
3/16	1900	131.0	5/8	650	44.8
1/4	1400	96.5	3/4	550	37.9
5/16	1200	82.7	7/8	450	31.0
3/8	1000	68.9	1	350	24.1

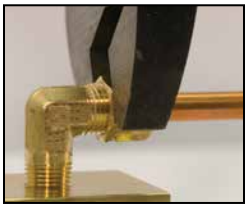


Assembly Instructions

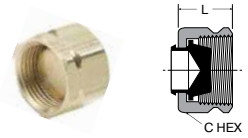
With nut finger tight on fitting body, insert tubing until it bottoms in the Fitting. Complete the seal with one wrench turn for all sizes.





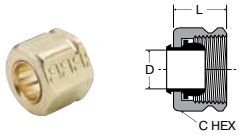


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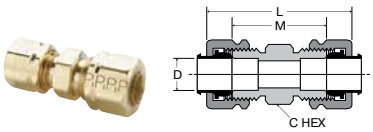
Plug 59CA

Part No.	Tube Size	Straight Thread	C Hex	L
59CA-4	1/4	7/16-24	1/2	.40
59CA-6	3/8	9/16-24	5/8	.45
59CA-8	1/2	11/16-20	13/16	.50



Nut and Sleeve Assembly 61CA

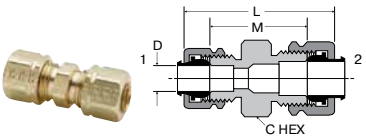
Part No.	Tube Size	Straight Thread	C Hex	D	L
61CA-2	1/8	5/16-24	3/8	.130	.36
61CA-3	3/16	3/8-24	7/16	.194	.38
61CA-4	1/4	7/16-24	1/2	.255	.40
61CA-5	5/16	1/2-24	9/16	.318	.45
61CA-6	3/8	9/16-24	5/8	.382	.45
61CA-8	1/2	11/16-20	13/16	.507	.50
61CA-10	5/8	13/16-18	15/16	.632	.53
61CA-12	3/4	1-18	1-3/16	.760	.56
61CA-14	7/8	1-1/8-18	1-3/8	.885	.68
61CA-16	1	1-1/4-18	1-1/2	1.012	.63



Union 62CA

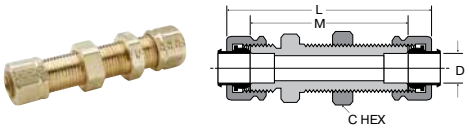
Part No.	Size	Straight Thread	C Hex	L	M	Flow Dia. D
62CA-2	1/8	5/16-24	5/16	1.12	.64	.094
62CA-3	3/16	3/8-24	3/8	1.19	.72	.125
62CA-4	1/4	7/16-24	7/16	1.26	.79	.188
62CA-5	5/16	1/2-24	1/2	1.32	.85	.250
62CA-6	3/8	9/16-24	9/16	1.42	.97	.312
62CA-8	1/2	11/16-20	11/16	1.53	1.08	.406
62CA-10	5/8	13/16-18	13/16	1.71	1.23	.500
62CA-12	3/4	1-18	1	2.20	1.41	.562
62CA-14	7/8	1-1/8-18	1-1/8	2.08	1.19	.766

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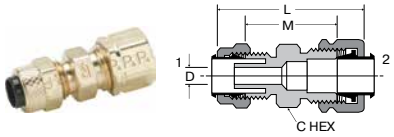
Union Reducers 62CA

Part No.	1 Tube Size	2 Tube Size	1 Straight Thread	2 Straight Thread	C Hex	L	M	Flow Dia. D
62CA-4-3	3/16	1/4	3/8-24	7/16-24	7/16	1.25	.78	.125
62CA-6-4	1/4	3/8	7/16-24	9/16-24	9/16	1.37	.91	.188
62CA-8-6	3/8	1/2	9/16-24	11/16-20	11/16	1.48	1.03	.312
62CA-10-6	3/8	5/8	9/16-24	13/16-18	13/16	1.59	1.13	.312



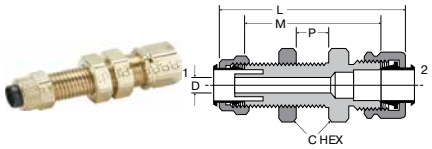
Bulkhead Union 62CABH

Part No.	Tube Size	Straight Thread	C Hex	L	M	Bulkhead Hole Dia.	Flow Dia. D
62CABH-4	1/4	7/16-24	9/16	2.22	1.75	7/16	.188
62CABH-6	3/8	9/16-24	11/16	2.32	1.88	9/16	.312



Union 62PCA (Poly-Tite to Compress-Align)

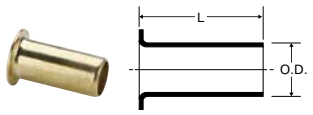
Part No.	Tube Size	1 Straight Thread	2 Straight Thread	C Hex	L	M	Flow Dia. D
62PCA-4	1/4	3/8-24	7/16-24	7/16	1.24	.89	.125
62PCA-5	5/16	7/16-24	1/2-24	1/2	1.26	.92	.144
62PCA-6	3/8	1/2-24	9/16-24	9/16	1.32	.98	.204



Bulkhead Union 62PCABH (Poly-Tite to Compress-Align)

Part No.	Tube Size	1 Str Thd	2 Str Thd	C Hex	P Max	L	M	Flow Bkhd Dia.	Flow Dia. D
62PCABH-4	1/4	3/8-24	7/16-24	9/16	.38	1.80	1.45	3/8	.125
62PCABH-6	3/8	1/2-24	9/16-24	11/16	.47	1.98	1.64	1/2	.204

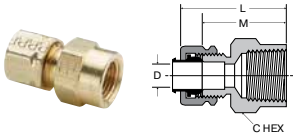
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Brass Insert 63PT

Part No.	Tube Size	Tube Wall	L	O.D.
63PT-2-16	1/8	.016	.46	.080
63PT-2-23	1/8	.023	.45	.073
63PT-3-25	3/16	.025	.45	.135
63PT-3-40	3/16	.040	.52	.095
63NTA-4*	1/4		.53	.163
63PT-4-62	1/4	.062	.33	.110
63PT-5-40	5/16	.040	.50	.232
63PT-5-62	5/16	.062	.53	.187
63NTA-6*	3/8		.64	.245
63NTA-8*	1/2		.81	.370
63PT-10-62	5/8	.062	.72	.483

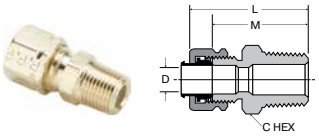
* Denotes 304 stainless steel



Female Connector 66CA

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. D
66CA-2-2	1/8	1/8	5/16-24	9/16	.99	.75	.094
66CA-3-2	3/16	1/8	3/8-24	9/16	1.01	.78	.125
66CA-3-4	3/16	1/4	3/8-24	11/16	1.19	.96	.125
66CA-4-2	1/4	1/8	7/16-24	9/16	1.02	.78	.188
66CA-4-4	1/4	1/4	7/16-24	11/16	1.24	1.00	.188
66CA-5-2	5/16	1/8	1/2-24	9/16	1.05	.81	.250
66CA-5-4	5/16	1/4	1/2-24	11/16	1.27	1.03	.250
66CA-6-2	3/8	1/8	9/16-24	9/16	1.00	.78	.312
66CA-6-4	3/8	1/4	9/16-24	11/16	1.28	1.06	.312
66CA-6-6	3/8	3/8	9/16-24	13/16	1.29	1.06	.312
66CA-6-8	3/8	1/2	9/16-24	1	1.49	1.27	.312
66CA-8-4	1/2	1/4	11/16-20	11/16	1.32	1.09	.406
66CA-8-6	1/2	3/8	11/16-20	13/16	1.35	1.12	.406
66CA-8-8	1/2	1/2	11/16-20	1	1.54	1.31	.406
66CA-10-8	5/8	1/2	13/16-18	1	1.62	1.38	.500

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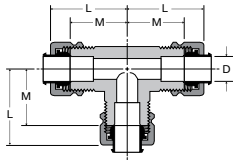


Male Connector 68CA

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. D
68CA-2-1	1/8	1/16	5/16-24	3/8	1.02	.78	.095
68CA-2-2	1/8	1/8	5/16-24	7/16	1.01	.77	.094
68CA-3-1	3/16	1/16	3/8-24	3/8	1.07	.84	.125
68CA-3-2	3/16	1/8	3/8-24	7/16	1.07	.84	.125
68CA-3-4	3/16	1/4	3/8-24	9/16	1.26	1.03	.125
68CA-4-2	1/4	1/8	7/16-24	7/16	1.10	.86	.188
68CA-4-4	1/4	1/4	7/16-24	9/16	1.31	1.06	.188
68CA-4-6	1/4	3/8	7/16-24	11/16	1.28	1.03	.188
68CA-4-8	1/4	1/2	7/16-24	7/8	1.56	1.31	.188
68CA-5-2	5/16	1/8	1/2-24	1/2	1.13	.89	.234
68CA-5-4	5/16	1/4	1/2-24	9/16	1.35	1.07	.250
68CA-6-2	3/8	1/8	9/16-24	9/16	1.19	.97	.250
68CA-6-4	3/8	1/4	9/16-24	9/16	1.36	1.14	.312
68CA-6-6	3/8	3/8	9/16-24	11/16	1.43	1.16	.312
68CA-6-8	3/8	1/2	9/16-24	7/8	1.52	1.25	.312
68CA-8-4	1/2	1/4	11/16-20	11/16	1.45	1.22	.312
68CA-8-6	1/2	3/8	11/16-20	11/16	1.43	1.20	.406
68CA-8-8	1/2	1/2	11/16-20	7/8	1.54	1.31	.406
68CA-10-6	5/8	3/8	13/16-18	13/16	1.55	1.31	.406
68CA-10-8	5/8	1/2	13/16-18	7/8	1.72	1.48	.500
68CA-10-12	5/8	3/4	13/16-18	1-1/16	1.80	1.56	.500
68CA-12-8	3/4	1/2	1-18	1	1.99	1.60	.562
68CA-12-12	3/4	3/4	1-18	1-1/16	2.02	1.63	.656
68CA-14-12	7/8	3/4	1-1/8-18	1-1/8	1.85	1.41	.750
68CA-16-12	1	3/4	1-1/4-18	1-1/4	1.83	1.39	.750
68CA-16-16	1	1	1-1/4-18	1-3/8	2.02	1.58	.875

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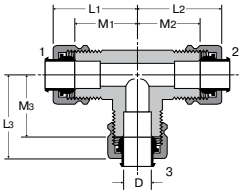




Union Tee 164CA-264CA

Part No.	Tube Size	Straight Thread	L	M	Flow Dia. D
164CA-2	1/8	5/16-24	.84	.61	.093
264CA-3	3/16	3/8-24	.83	.60	.125
164CA-4	1/4	7/16-24	.84	.63	.188
164CA-5	5/16	1/2-24	.95	.71	.250
164CA-6	3/8	9/16-24	.96	.74	.312
164CA-8	1/2	11/16-20	1.15	.93	.406
164CA-10	5/8	13/16-18	1.32	1.08	.500
164CA-12	3/4	1.00-18	1.56	1.17	.562

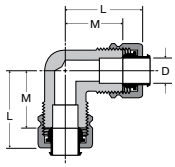




Union Tee 164CA combination sizes

Part No.	1 Tube Size	2 Tube Size	3 Tube Size	L1	L2	L3	M1	M2	M3	Flow Dia. D
164CA-6-4-4	3/8	1/4	1/4	.97	.96	.96	.75	.72	.72	.188
164CA-6-6-4	3/8	3/8	1/4	.97	.97	.96	.75	.75	.72	.188
164CA-8-8-6	1/2	1/2	3/8	1.17	1.17	1.10	.94	.94	.88	.312

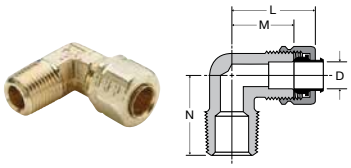




Union Elbow 165CA-265CA

Part No.	Tube Size	Straight Thread	L	M	Flow Dia. D
165CA-2	1/8	5/16-24	.84	.61	.094
165CA-3	3/16	3/8-24	.84	.61	.125
165CA-4	1/4	7/16-24	.87	.62	.188
165CA-5	5/16	1/2-24	.94	.71	.250
165CA-6	3/8	9/16-24	.96	.74	.312
165CA-8	1/2	11/16-20	1.15	.93	.406
165CA-10	5/8	13/16-18	1.29	1.05	.500
165CA-12	3/4	1-18	1.56	1.17	.562
165CA-16	1	1-1/4-18	1.63	1.19	.877

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

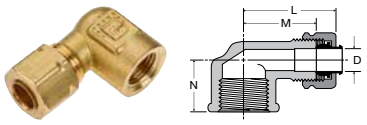


Male Elbow 169CA-269CA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
169CA-2-1	1/8	1/16	5/16-24	.84	.60	.67	.095
269CA-2-2	1/8	1/8	5/16-24	.84	.60	.67	.094
169CA-3-1	3/16	1/16	3/8-24	.84	.61	.67	.126
169CA-3-2	3/16	1/8	3/8-24	.83	.60	.67	.125
169CA-3-4	3/16	1/4	3/8-24	.87	.64	.93	.125
169CA-4-2	1/4	1/8	7/16-24	.85	.60	.73	.188
169CA-4-4	1/4	1/4	7/16-24	.84	.60	.80	.188
169CA-4-6	1/4	3/8	7/16-24	.92	.68	1.00	.188
169CA-5-2 [+]	5/16	1/8	1/2-24	.84	.61	.74	.234
169CA-5-4	5/16	1/4	1/2-24	.94	.71	.93	.250
169CA-5-6	5/16	3/8	1/2-24	.99	.75	1.00	.250
169CA-6-2 [+]	3/8	1/8	9/16-24	.96	.74	.74	.234
169CA-6-4	3/8	1/4	9/16-24	.96	.74	.93	.312
169CA-6-6	3/8	3/8	9/16-24	.97	.75	1.00	.312
169CA-6-8	3/8	1/2	9/16-24	1.16	.94	1.27	.312
169CA-8-4 [+]	1/2	1/4	11/16-20	1.17	.94	1.00	.312
169CA-8-6	1/2	3/8	11/16-20	1.15	.93	1.11	.406
169CA-8-8	1/2	1/2	11/16-20	1.23	1.00	1.37	.406
169CA-10-6 [+]	5/8	3/8	13/16-18	1.30	1.06	1.15	.406
169CA-10-8	5/8	1/2	13/16-18	1.30	1.06	1.31	.500
169CA-12-8	3/4	1/2	1-18	1.57	1.18	1.49	.562
169CA-12-12	3/4	3/4	1-18	1.66	1.27	1.58	.562
169CA-16-12 [+]	1	3/4	1-1/4-18	1.63	1.19	1.60	.875

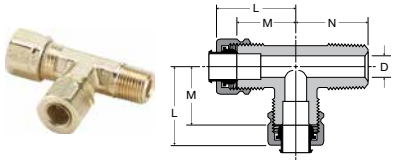
[+] For these parts the pipe thread through hole is smaller than the through hole on the tube end.

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



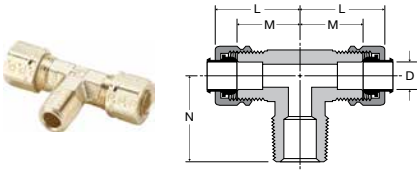
Female Elbow 170CA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
170CA-2-2	1/8	1/8	5/16-24	.93	.69	.56	.094
170CA-3-2	3/16	1/8	3/8-24	.98	.69	.56	.125
170CA-4-2	1/4	1/8	7/16-24	.92	.67	.54	.188
170CA-4-4	1/4	1/4	7/16-24	1.02	.78	.67	.188
170CA-6-4	3/8	1/4	9/16-24	1.09	.79	.73	.312
170CA-6-6	3/8	3/8	9/16-24	1.16	.89	.69	.312
170CA-8-6	1/2	3/8	11/16-20	1.23	1.00	.69	.406
170CA-8-8	1/2	1/2	11/16-20	1.38	1.15	.97	.408
170CA-12-12	3/4	3/4	1-18	1.97	1.58	1.58	.563



Male Run Tee 171CA

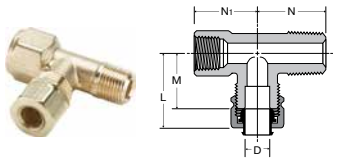
Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
171CA-2-2	1/8	1/8	5/16-24	.84	.61	.67	.094
171CA-3-2	3/16	1/8	3/8-24	.83	.61	.67	.125
171CA-4-2	1/4	1/8	7/16-24	.88	.64	.75	.188
171CA-4-4	1/4	1/4	7/16-24	.93	.69	.92	.188
171CA-6-4	3/8	1/4	9/16-24	1.03	.81	1.03	.312



Male Branch Tee 172CA

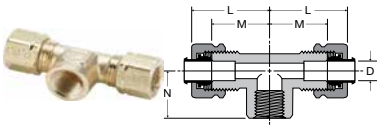
Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
172CA-2-2	1/8	1/8	5/16-24	.84	.61	.67	.093
172CA-3-2	3/16	1/8	3/8-24	.83	.61	.67	.125
172CA-4-2	1/4	1/8	7/16-24	.84	.61	.74	.188
172CA-4-4	1/4	1/4	7/16-24	.93	.69	.92	.188
172CA-6-2	3/8	1/8	9/16-24	.97	.75	.75	.234
172CA-6-4	3/8	1/4	9/16-24	.99	.77	.92	.312
172CA-6-6	3/8	3/8	9/16-24	1.07	.81	1.00	.312
172CA-8-6	1/2	3/8	11/16-20	1.15	.93	1.10	.406
172CA-12-12	3/4	3/4	1-18	1.67	1.27	1.50	.562

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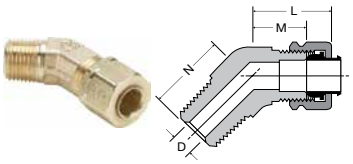
Adapter Tee 176CA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	N1	Flow Dia. D
176CA-4-2	1/4	1/8	7/16-24	.92	.69	.75	.66	.188



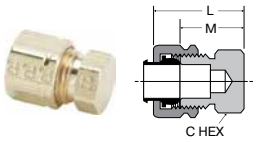
Female Branch Tee 177CA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
177CA-4-2	1/4	1/8	7/16-24	.86	.63	.53	.188



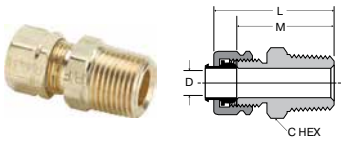
45° Elbow 179CA

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
179CA-4-2	1/4	1/8	7/16-24	.89	.66	.56	.188
179CA-4-4	1/4	1/4	7/16-24	.80	.56	.84	.188
179CA-6-2	3/8	1/8	9/16-24	.85	.63	.65	.234
179CA-6-4	3/8	1/4	9/16-24	.85	.63	.84	.312
179CA-6-6	3/8	3/8	9/16-24	.97	.75	.95	.312
179CA-8-6	1/2	3/8	11/16-20	1.03	.81	.95	.406



Seal Plug 639CA

Part No.	Tube Size	Straight Thread	C Hex	L	M
639CA-4	1/4	7/16-24	7/16	.74	.50



Straight Through Tank Fitting 682CA

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. D
682CA-3-2	3/16	1/8	3/8-24	7/16	1.07	.84	.194

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BRASS METRIC COMPRESSION FITTINGS



Parker's Metric Compression Fittings provide users with an economical choice with numerous connection options for a wide variety of tube materials without the need for flaring, soldering or other tube preparation necessary to assemble.

Product Features:

- 4mm – 28mm tube sizes
- NPT, BSPT, BSPP, Metric Threads
- NBR seal
- Silicone free

Markets:

- Factory/Process Automation
- Automotive Process
- Packaging
- Pneumatic
- Printing

Applications:

- Air lines
- Lubrication Lines
- Cooling lines
- Water
- Machinery
- Compressors
- Fluid transfer

Compatible Tubing:

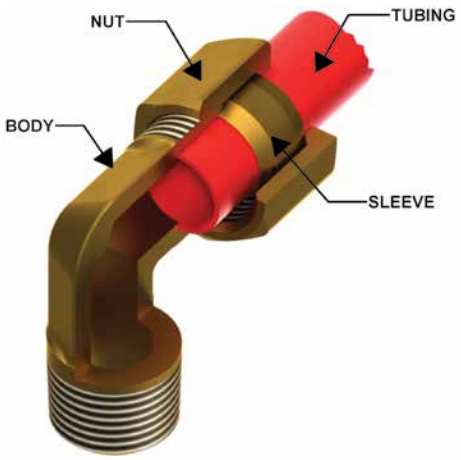
- Copper
- Aluminum
- Thermoplastic tubing

Specifications:

Temperature Range: -40° to +250° F (-40° to +121.1° C)

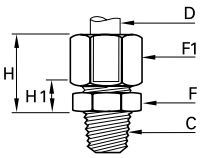
Pressure Range:

tube size mm	psi	bar	tube size mm	psi	bar
4	3335	229.9	14	652	44.9
6	2175	149.9	16	580	39.9
8	1450	99.9	18	536	36.9
10	1087	74.9	20	507	34.9
12	797	54.9	22	435	29.9



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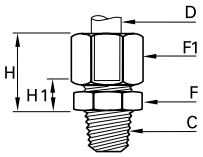


0105 Male Connector BSPT

Part no.	O.D.	C	F	F1	H Max	H1	Kg
0105 04 10	4	R1/8	10	10	17	7	.012
0105 05 10	5	R1/8	11	12	17.5	7.5	.016
0105 05 13	5	R1/4	14	12	17.5	7.5	.022
0105 06 10	6	R1/8	11	13	18	7.5	.017
0105 06 13	6	R1/4	14	13	18	7.5	.024
0105 06 17	6	R3/8	17	13	18	8.5	.031
0105 08 10	8	R1/8	13	14	19.5	7	.020
0105 08 13	8	R1/4	14	14	19.5	7	.025
0105 08 17	8	R3/8	17	14	20.5	8	.032
0105 10 10	10	R1/8	17	19	24	9	.043
0105 10 13	10	R1/4	17	19	24	9	.047
0105 10 17	10	R3/8	17	19	24	9	.048
0105 10 21	10	R1/2	22	19	25	10	.067
0105 12 13	12	R1/4	19	22	24	9	.059
0105 12 17	12	R3/8	19	22	24	9	.060
0105 12 21	12	R1/2	22	22	25	10	.076
0105 14 13	14	R1/4	22	24	25	8	.068
0105 14 17	14	R3/8	22	24	25	8	.068
0105 14 21	14	R1/2	22	24	26	9	.080
0105 14 27	14	R3/4	27	24	27	10	.107
0105 15 17	15	R3/8	22	24	25	8	.065
0105 15 21	15	R1/2	22	24	26	9	.076
0105 16 13	16	R1/4	24	27	27	9.5	.092
0105 16 17	16	R3/8	24	27	27	9.5	.092
0105 16 21	16	R1/2	24	27	27	9.5	.099
0105 16 27	16	R3/4	27	27	28	10.5	.123
0105 18 21	18	R1/2	27	30	30	10.5	.127
0105 18 27	18	R3/4	27	30	30	10.5	.138
0105 20 21	20	R1/2	30	32	32	11	.148
0105 20 27	20	R3/4	30	32	32	11	.157
0105 22 21	22	R1/2	32	36	33	11	.187
0105 22 27	22	R3/4	32	36	33	11	.196
0105 22 34	22	R1	36	36	33	11	.227
0105 25 27	25	R3/4	36	41	36	11	.261
0105 25 34	25	R1	36	41	36	11	.278
0105 28 27	28	R3/4	41	42	36	11	.274
0105 28 34	28	R1	41	42	36	11	.283

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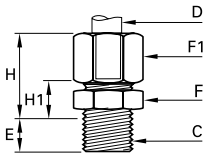


0105 Male Connector NPT

Part No.	O.D.	C	F	F1	H Max	H1	Kg
0105 06 11	6	NPT1/8	11	13	18	7.5	.018
0105 06 14	6	NPT1/4	14	13	18	7.5	.027
0105 08 11	8	NPT1/8	13	14	21	7	.021
0105 08 14	8	NPT1/4	14	14	18.5	7	.026
0105 10 14	10	NPT1/4	17	19	24	9	.048
0105 10 18	10	NPT3/8	17	19	24	9	.048
0105 10 22	10	NPT1/2	22	19	25	10	.066

⚠ **WARNING** This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov





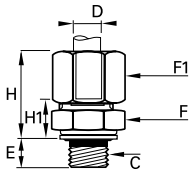
0101 Male Connector with Captive Sealing Washer Male BSPP

Part No.	O.D.	C	E	F	F1	H Max	H1	Kg
0101 04 19	4	M5X0.8	5	10	10	16.5	8	.011
0101 04 10	4	G1/8	6.5	13	10	16.5	8	.016
0101 05 10	5	G1/8	6.5	13	12	17.5	8.5	.018
0101 06 10	6	G1/8	6.5	13	13	18	8.5	.020
0101 06 13	6	G1/4	8	17	13	18	9.5	.030
0101 08 10	8	G1/8	6.5	13	14	19	8.5	.021
0101 08 13	8	G1/4	8	17	14	19.5	9	.032
0101 08 17	8	G3/8	11	22	14	20	10.5	.044
0101 10 13	10	G1/4	8	17	19	24	11	.049
0101 10 17	10	G3/8	11	22	19	24	11.5	.061
0101 12 13	12	G1/4	8	19	22	24	11	.062
0101 12 17	12	G3/8	11	22	22	24	11.5	.069
0101 12 21	12	G1/2	12	27	22	24	12	.089
0101 14 17	14	G3/8	11	22	24	25	10.5	.074
0101 14 21	14	G1/2	12	27	24	25	11	.094
0101 15 17	15	G3/8	11	22	24	25	10.5	.071
0101 15 21	15	G1/2	12	27	24	25	11	.093
0101 16 17	16	G3/8	11	22	27	27	12	.092
0101 16 21	16	G1/2	12	27	27	27	12.5	.109
0101 18 21	18	G1/2	12	27	30	29.5	12.5	.128
0101 18 27	18	G3/4	13	32	30	29.5	13	.152
0101 20 27	20	G3/4	13	32	32	31	13	.164
0101 22 27	22	G3/4	13	32	36	32	13	.195
0101 22 34	22	G1	15	41	36	31	13.5	.259
0101 25 27	25	G3/4	13	36	41	35.5	13	.261
0101 25 34	25	G1	15	41	41	35.5	13	.169
0101 28 34	28	G1	15	41	42	35.5	13.5	.300

With pre-assembled captive polymer sealing washer

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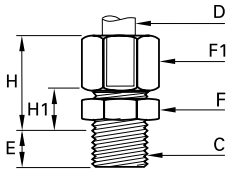
0101 Male Connector with Bi-Material Seal Male BSPP

Part No.	O.D.	C	E	F	F1	H Max	H1	Kg
0101 04 10 39	4	G1/8	5.5	13	10	17.5	9	.016
0101 05 10 39	5	G1/8	5.5	13	12	18.5	9.5	.019
0101 06 10 39	6	G1/8	5.5	13	13	19	9.5	.020
0101 06 13 39	6	G1/4	7	17	13	19	10.5	.030
0101 08 10 39	8	G1/8	5.5	13	14	20	9.5	.022
0101 08 13 39	8	G1/4	7	17	14	20.5	10	.032
0101 08 17 39	8	G3/8	9.5	22	14	21.5	12	.045
0101 10 13 39	10	G1/4	7	17	19	25	12	.048
0101 10 17 39	10	G3/8	9.5	22	19	25.5	13	.062
0101 12 13 39	12	G1/4	7	19	22	25	12	.063
0101 12 17 39	12	G3/8	9.5	22	22	25	13	.071
0101 12 21 39	12	G1/2	10.5	27	22	25	13.5	.091
0101 14 17 39	14	G3/8	9.5	22	24	26.5	12	.075
0101 14 21 39	14	G1/2	10.5	27	24	26.5	12.5	.095
0101 15 17 39	15	G3/8	9.5	22	24	26.5	12	.073
0101 15 21 39	15	G1/2	10.5	27	24	26.5	12.5	.095
0101 16 17 39	16	G3/8	9.5	22	27	28.5	13.5	.092
0101 16 21 39	16	G1/2	10.5	27	27	28.5	14	.111
0101 18 21 39	18	G1/2	10.5	27	30	31	14	.129
0101 18 27 39	18	G3/4	11.5	32	30	31	14.5	.155
0101 20 27 39	20	G3/4	11.5	32	32	32.5	14.5	.164
0101 22 27 39	22	G3/4	11.5	32	36	32.5	14.5	.197
0101 22 34 39	22	G1	13	41	36	33	15.5	.259
0101 25 34 39	25	G1	13	41	41	37.5	15.5	.309
0101 28 34 39	28	G1	13	41	42	37.5	15.5	.301

Zinc plated steel with NBR seal

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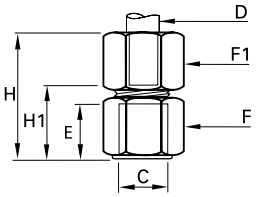


0101 Male Connector Metric Thread

Part No.	O.D.	C	E	F	F1	H Max	H1	Kg
0101 04 55	4	M7X1	6.5	10	10	16.5	7.5	.012
0101 04 56	4	M8X1	6.5	11	10	16.5	7.5	.013
0101 05 56	5	M8X1	6.5	11	12	17.5	8	.016
0101 05 60	5	M10X1	6.5	14	12	17.5	8.5	.020
0101 06 60	6	M10X1	6.5	14	13	18	8.5	.021
0101 06 62	6	M10X1.5	6.5	14	13	18	8.5	.021
0101 08 65	8	M12X1	8	17	14	19.5	9	.029
0101 08 66	8	M12X1.25	8	17	14	19.5	9	.029
0101 08 68	8	M13X1.25	8	17	14	19.5	9	.030
0101 10 70	10	M14X1.25	8	17	19	24	11	.047
0101 10 71	10	M14X1.5	8	17	19	24	11	.047
0101 10 74	10	M16X1.25	9	19	19	24	11	.051
0101 10 75	10	M16X1.5	9	19	19	24	11	.051
0101 10 78	10	M18X1.5	9	22	19	24	11.5	.060
0101 12 74	12	M16X1.25	9	19	22	24	11	.061
0101 12 75	12	M16X1.5	9	19	22	24	11	.061
0101 12 78	12	M18X1.5	9	22	22	24	11.5	.070
0101 14 78	14	M18X1.5	9	22	24	25	10.5	.077
0101 14 80	14	M20X1.5	10	24	24	25	11	.084
0101 15 78	15	M18X1.5	9	22	24	25	10.5	.071
0101 16 80	16	M20X1.5	10	24	27	27	12.5	.102
0101 16 82	16	M22X1.5	10	27	27	27	12.5	.111
0101 18 82	18	M22X1.5	10	27	30	29.5	12.5	.129
0101 18 83	18	M24X1.5	11	30	30	29.5	13	.142

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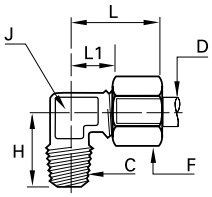


0114 Female Connector BSPP

Part No.	O.D.	C	E	F	F1	H Max	H1	Kg
0114 04 10	4	G1/8	9.5	14	10	26	16.5	.020
0114 04 13	4	G1/4	13.5	17	10	30	20.5	.030
0114 05 10	5	G1/8	9.5	14	12	28	17	.023
0114 05 13	5	G1/4	13.5	17	12	31	21	.033
0114 06 10	6	G1/8	9.5	14	13	28	17	.025
0114 06 13	6	G1/4	13.5	17	13	32	21	.034
0114 06 17	6	G3/8	14	22	13	32	21.5	.051
0114 08 10	8	G1/8	9.5	14	14	29	16.5	.026
0114 08 13	8	G1/4	13.5	17	14	33	20.5	.036
0114 08 17	8	G3/8	14	22	14	34	21	.052
0114 10 13	10	G1/4	13.5	17	19	37	21.5	.052
0114 10 17	10	G3/8	14	22	19	37	22	.068
0114 10 21	10	G1/2	18.5	27	19	42	26.5	.099
0114 12 13	12	G1/4	13.5	19	22	36	20.5	.069
0114 12 17	12	G3/8	14	22	22	37	22	.078
0114 12 21	12	G1/2	18.5	27	22	42	26.5	.109
0114 14 13	14	G1/4	13.5	22	24	36	18.5	.085
0114 14 17	14	G3/8	14	22	24	38	21	.048
0114 14 21	14	G1/2	18.5	27	24	43	25.5	.113
0114 15 17	15	G3/8	14	22	24	38	21	.078
0114 15 21	15	G1/2	18.5	27	24	43	25.5	.109
0114 16 13	16	G1/4	13.5	24	27	36	18	.107
0114 16 17	16	G3/8	14	24	27	38	20.5	.106
0114 16 21	16	G1/2	18.5	27	27	44	26	.127
0114 18 17	18	G3/8	14	27	30	39	19.5	.140
0114 18 21	18	G1/2	18.5	27	30	45	26	.144
0114 18 27	18	G3/4	19.5	32	30	46	27	.165
0114 20 17	20	G3/8	14	30	32	38	18	.161
0114 20 21	20	G1/2	18.5	30	32	44.5	24	.173
0114 20 27	20	G3/4	19.5	32	32	47	26.5	.170
0114 22 27	22	G3/4	19.5	32	36	48	26.5	.204
0114 25 27	25	G3/4	19.5	36	41	50.5	26	.297

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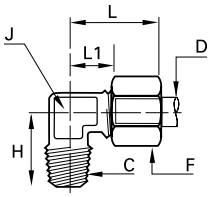


0109 Male Elbow BSPT

Part No.	O.D.	C	F	H	J	L Max	L1	Kg
0109 04 10	4	R1/8	10	17	8	19	9.5	.016
0109 04 13	4	R1/4	10	20	10	19	11	.026
0109 05 10	5	R1/8	12	17.5	8	21	11	.019
0109 05 13	5	R1/4	12	21.5	10	22	12	.028
0109 06 10	6	R1/8	13	18	8	22	11	.021
0109 06 13	6	R1/4	13	21.5	10	22	12	.031
0109 08 10	8	R1/8	14	18.5	10	28	15	.028
0109 08 13	8	R1/4	14	22	10	28	15	.033
0109 08 17	8	R3/8	14	24	12	28	15	.044
0109 10 13	10	R1/4	19	25	12	30	14.5	.052
0109 10 17	10	R3/8	19	25.5	12	30	14.5	.060
0109 10 21	10	R1/2	19	32	19	36	21	.109
0109 12 13	12	R1/4	22	26	15	30	15	.074
0109 12 17	12	R3/8	22	27	15	30	15	.077
0109 12 21	12	R1/2	22	32	19	36	21	.116
0109 14 17	14	R3/8	24	30	19	35	18	.105
0109 14 21	14	R1/2	24	32	19	35	18	.112
0109 15 17	15	R3/8	24	30	19	35	18	.099
0109 15 21	15	R1/2	24	32	19	35	18	.106
0109 16 17	16	R3/8	27	30	19	39	21	.120
0109 16 21	16	R1/2	27	33.5	19	39	21	.130
0109 16 27	16	R3/4	27	36.5	23	41	23	.189
0109 18 21	18	R1/2	30	35.5	23	41	21.5	.182
0109 18 27	18	R3/4	30	36.5	23	41	21.5	.199
0109 20 21	20	R1/2	32	36.5	23	42	21.5	.181
0109 20 27	20	R3/4	32	38	23	42	21.5	.200
0109 22 27	22	R3/4	36	40	27	50	30	.288
0109 22 34	22	R1	36	44	27	50	30	.342
0109 25 34	25	R1	41	44	27	54	30	.367
0109 28 34	28	R1	42	48	32	54	30	.384

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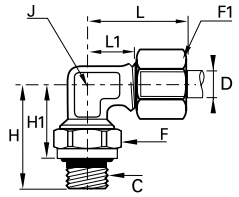




0109 Male Elbow NPT

Part No.	O.D.	C	F	H	J	L Max	L1	Kg
0109 06 11	6	1/8	13	18	8	22	11	.021
0109 06 14	6	1/4	13	21.5	10	22	12	.030
0109 08 11	8	1/8	14	18.5	10	28	15	.028
0109 08 14	8	1/4	14	22	10	28	15	.033
0109 10 14	10	1/4	19	25	12	30	14.5	.053





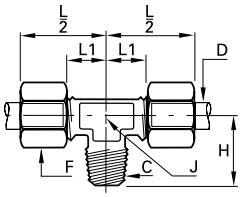
0199 Adjustable Male Elbow BSPP

Part No.	O.D.	C	F	F1	H	H1	H1 Max	J	L Max	L1	Kg
0199 04 10	4	G1/8	14	10	23	16	17	8	19	9.5	.023
0199 04 13	4	G1/4	19	10	30.5	22	23.5	10	19	11	.043
0199 06 10	6	G1/8	14	13	23	16	17	8	22	11	.027
0199 06 13	6	G1/4	19	13	30.5	22	23.5	10	22	12	.047
0199 08 10	8	G1/8	14	14	24	17	18	10	28	15	.033
0199 08 13	8	G1/4	19	14	30.5	22	23.5	10	28	15	.051
0199 08 17	8	G3/8	22	14	33.5	24	25.5	12	28	15	.065
0199 10 13	10	G1/4	19	19	31	22.5	24	12	30	14.5	.068
0199 10 17	10	G3/8	22	19	33.5	24	25.5	12	30	14.5	.079
0199 10 21	10	G1/2	27	19	40	29.5	31	19	37	22	.138
0199 14 17	14	G3/8	22	24	35.5	26	27.5	19	35	18	.119
0199 14 21	14	G1/2	27	24	40	29.5	31	19	35	18	.141
0199 18 21	18	G1/2	27	30	40	29	30.5	23	41	21.5	.187
0199 18 27	18	G3/4	32	30	43.5	32	33.5	23	41	21.5	.222
0199 22 27	22	G3/4	32	36	45.5	34	36	32	51	31	.382
0199 22 34	22	G1	41	36	54	40.5	43	32	51	31	.408
0199 28 34	28	G1	41	42	54	40.5	43	32	54	30	.420

The body will orientate for positioning purposes

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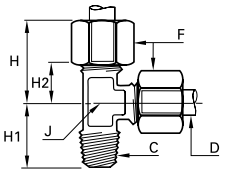


0108 Male Branch Tee Male BSPT

Part no.	O.D.	C	f	h	j	l1	l2	kg
0108 04 10	4	R1/8	10	17	8	9.5	19	.025
0108 05 10	5	R1/8	12	17.5	8	11	21	.017
0108 06 10	6	R1/8	13	18	8	11	22	.032
0108 06 13	6	R1/4	13	21.5	10	16	27	.047
0108 08 10	8	R1/8	14	18.5	10	15	28	.045
0108 08 13	8	R1/4	14	22	10	15	28	.050
0108 08 17	8	R3/8	14	24	12	15	28	.061
0108 10 13	10	R1/4	19	25	12	14.5	30	.084
0108 10 17	10	R3/8	19	25.5	12	14.5	30	.090
0108 12 13	12	R1/4	22	26	15	15	30	.116
0108 12 17	12	R3/8	22	27	15	15	30	.117
0108 14 17	14	R3/8	24	30	19	18	35	.153
0108 14 21	14	R1/2	24	32	19	18	35	.168
0108 16 17	16	R3/8	27	30	19	21	39	.190
0108 16 21	16	R1/2	27	33.5	19	21	39	.203
0108 18 21	18	R1/2	30	35.5	23	21.5	41	.265
0108 18 27	18	R3/4	30	36.5	23	21.5	41	.292
0108 20 27	20	R3/4	32	38	23	21.5	42	.298
0108 22 27	22	R3/4	36	40	27	29	50	.435
0108 22 34	22	R1	36	44	27	29	50	.466

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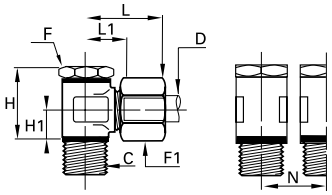


0103 Male Run Tee BSPT

Part No.	O.D.	C	F	H Max	H1	H2	J	Kg
0103 04 10	4	R1/8	10	19	17	9.5	8	.025
0103 06 10	6	R1/8	13	22	18	11	8	.033
0103 06 13	6	R1/4	13	27	21.5	16	10	.048
0103 08 13	8	R1/4	14	28	22	15	10	.050
0103 08 17	8	R3/8	14	28	24	15	12	.061
0103 10 13	10	R1/4	19	30	25	14.5	12	.084
0103 12 13	12	R1/4	22	30	26	15	15	.114
0103 14 17	14	R3/8	24	35	30	18	19	.161
0103 14 21	14	R1/2	24	35	32	18	19	.169
0103 15 17	15	R3/8	24	35	30	18	19	.148
0103 15 21	15	R1/2	24	35	32	18	19	.158
0103 16 17	16	R3/8	27	39	30	21	19	.192
0103 18 21	18	R1/2	30	41	35.5	21.5	23	.269
0103 18 27	18	R3/4	30	41	36.5	21.5	23	.282
0103 20 27	20	R3/4	32	42	38	21.5	23	.298
0103 22 27	22	R3/4	36	50	40	29	27	.435
0108 22 34	22	R1	36	44	27	29	50	.466

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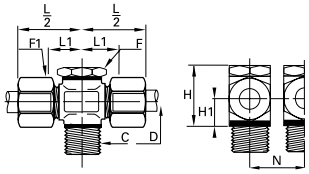


0118 Single Banjo with Captive Sealing Washer Male BSPP

Part No.	O.D.	C	F	F1	H	H1	L1 Max	L1	N	Kg
0118 05 10	5	G1/8	14	12	24	9.5	25	14.5	17.5	.041
0118 05 13	5	G1/4	17	12	25	10	26	16	21	.058
0118 14 13	14	G1/4	17	24	37	16	37	20.5	28	.154
0118 14 17	14	G3/8	22	24	38	16	37	20.5	28	.195
0118 14 21	14	G1/2	27	24	40	16	38	20.5	32.5	.208
0118 15 17	15	G3/8	22	24	38	16	37	20.5	28	.190
0118 15 21	15	G1/2	27	24	40	16	38	20.5	32.5	.198
0118 16 21	16	G1/2	27	27	42	16	38	21	32.5	.221
0118 18 21	18	G1/2	27	30	46	19.5	43	24.5	36	.366
0118 20 27	20	G3/4	32	32	49	20	44	24.5	39	.403
0118 22 27	22	G3/4	32	36	53	22	45	24.5	39	.459

With pre-assembled captive polymer sealing washer





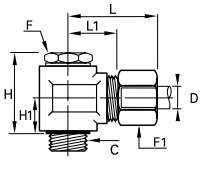
0119 Double Banjo with Captive Sealing Washer Male BSPP

Part No.	O.D.	C	F	F1	H	H1	L1	L2	N	Kg
0119 08 13	8	G1/4	17	14	25	10	15.5	28	21	.074
0119 08 17	8	G3/8	22	14	32	13	18	30.5	26.5	.140
0119 10 13	10	G1/4	17	19	31	13	19	34	23	.156
0119 10 17	10	G3/8	22	19	32	13	19	34	26.5	.165
0119 12 13	12	G1/4	17	22	34	14.5	19	34	23	.180
0119 12 17	12	G3/8	22	22	35	14.5	19	34	26.5	.182
0119 14 13	14	G1/4	17	24	37	16	20.5	37.5	28	.246
0119 14 17	14	G3/8	22	24	38	16	20.5	37.5	28	.247
0119 14 21	14	G1/2	27	24	40	16	20.5	38	32.5	.219

Zinc plated steel with NBR seal. Thread with pre-assembled polymer washer

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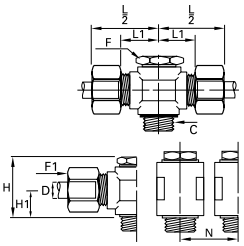
0118 Single Banjo with Bi-Material Seal Male BSPP

Part No.	O.D.	C	F	F1	H	H1	L1 Max	L1	N	Kg
0118 04 10 39	4	G1/8	14	10	23	9.5	24	14.5	17.5	.038
0118 05 10 39	5	G1/8	14	12	23	9.5	25	14.5	17.5	.041
0118 05 13 39	5	G1/4	17	12	24	10	26	16	21	.064
0118 06 10 39	6	G1/8	14	13	23	9.5	25	14.5	17.5	.042
0118 06 13 39	6	G1/4	17	13	24	10	26	16	21	.057
0118 08 10 39	8	G1/8	14	14	23	9.5	28	15.5	17.5	.055
0118 08 13 39	8	G1/4	17	14	24	10	28	15.5	21	.058
0118 08 17 39	8	G3/8	22	14	31.5	13.5	30	18	26.5	.113
0118 10 13 39	10	G1/4	17	19	30	13	34	19	23	.118
0118 10 17 39	10	G3/8	22	19	31.5	13.5	34	19	26.5	.128
0118 12 13 39	12	G1/4	17	22	33	14.5	34	19	23	.128
0118 12 17 39	12	G3/8	22	22	34.5	15	34	19	26.5	.140
0118 14 13 39	14	G1/4	17	24	36	16	37	20.5	28	.189
0118 14 17 39	14	G3/8	22	24	37.5	16.5	37	20.5	28	.198
0118 14 21 39	14	G1/2	27	24	39	16.5	38	20.5	32.5	.205
0118 15 17 39	15	G3/8	22	24	37.5	16.5	37	20.5	28	.389
0118 15 21 39	15	G1/2	27	24	40	16.5	38	20.5	32.5	.202
0118 16 21 39	16	G1/2	27	27	40	16.5	38	21	32.5	.225
0118 18 21 39	18	G1/2	27	30	47	20	43	24.5	36	.369
0118 20 27 39	20	G3/4	32	32	50	20.5	44	24.5	39	.394

Zinc plated steel with NBR seal

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



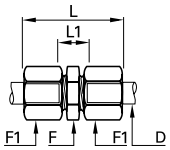


0119 Double Banjo with Bi-Material Seal Male BSPP

Part No.	O.D.	C	F	F1	H	H1	L1	L2	N	Kg
0119 04 10 39	4	G1/8	14	10	23	9.5	14.5	24	17.5	.050
0119 05 10 39	5	G1/8	14	12	23	9.5	14.5	25	17.5	.049
0119 05 13 39	5	G1/4	17	12	24	10	126	26	21	.072
0119 06 10 39	6	G1/8	14	13	23	9.5	14.5	25	17.5	.056
0119 06 13 39	6	G1/4	17	13	24	10	16	26	21	.071
0119 08 10 39	8	G1/8	14	14	23	9.5	15.5	28	17.5	.072
0119 08 13 39	8	G1/4	17	14	24	10	15.5	28	21	.080
0119 08 17 39	8	G3/8	22	14	31.5	13.5	18	30	26.5	.118
0119 10 13 39	10	G1/4	17	19	30	13	19	34	23	.156
0119 10 17 39	10	G3/8	22	19	31.5	13.5	19	34	26.5	.167
0119 12 13 39	12	G1/4	17	22	33	14.5	19	34	23	.180
0119 12 17 39	12	G3/8	22	22	34.5	15	19	34	26.5	.183
0119 14 13 39	14	G1/4	17	24	36	16	20.5	37	28	.248
0119 14 17 39	14	G3/8	22	24	37.5	16.5	20.5	37	28	.247
0119 14 21 39	14	G1/2	27	24	39	16.5	20.5	38	32.5	.262
0119 15 17 39	15	G3/8	22	24	37.5	16.5	20.5	37	28	.246
0119 15 21 39	15	G1/2	27	24	40	16.5	20.5	38	32.5	.251
0119 18 21 39	18	G1/2	27	30	47	20	24.5	43	36	.469
0119 20 27 39	20	G3/4	32	32	50	20.5	24.5	44	39	.638
0119 22 27 39	22	G3/4	32	36	54	22.5	24.5	45	39	.610

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

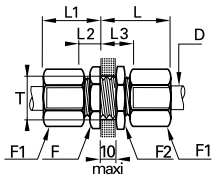




0106 Equal Tube-to-Tube Connector

Part No.	O.D.	F	F1	L Max	L1	Kg
0106 04 00	4	10	10	28	10	.016
0106 05 00	5	11	12	31	11	.023
0106 06 00	6	11	13	32	11	.026
0106 08 00	8	13	14	36	10	.031
0106 10 00	10	17	19	42	13	.070
0106 12 00	12	19	22	42	13	.092
0106 14 00	14	22	24	45	11	.104
0106 15 00	15	22	24	45	11	.097
0106 16 00	16	24	27	48	13	.141
0106 18 00	18	27	30	53	14	.186
0106 20 00	20	30	32	56	14	.211
0106 22 00	22	32	36	60	14	.283
0106 25 00	25	36	41	64	14	.396
0106 28 00	28	41	42	64	14	.399

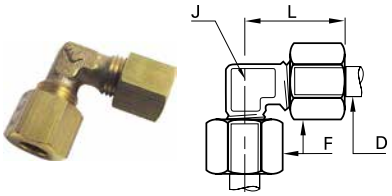




0116 Bulkhead Union

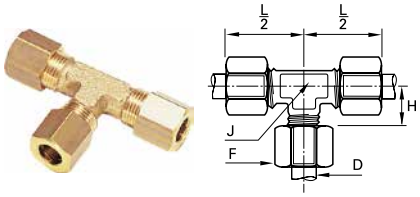
Part No.	O.D.	F	F1	F2	L Max	L1 Max	L2	L3	OT Min	Kg
0116 04 00	4	10	10	13	27	17	7	17	8.3	.024
0116 05 00	5	13	12	14	28	18	7.5	17.5	10.3	.035
0116 06 00	6	13	13	14	28	19	7.5	17.5	10.3	.037
0116 08 00	8	14	14	17	29	20	7	17	12.3	.045
0116 10 00	10	19	19	22	33	25	9	19	16.5	.101
0116 12 00	12	22	22	22	33	25	9	19	18.5	.121
0116 14 00	14	24	24	24	35	25	8	18	20.5	.145
0116 15 00	15	24	24	24	35	25	8	18	20.5	.134
0116 16 00	16	27	27	27	36	28	9.5	19.5	22.5	.189
0116 18 00	18	27	30	30	40	30	10.5	20.5	24.5	.237
0116 20 00	20	32	30	32	41	31	11	21	27.5	.274
0116 22 00	22	36	36	36	42	32	11	21	30.5	.372
0116 25 00	25	36	41	38	46	36	11	21	33.5	.469

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0102 Union Elbow

Part No.	O.D.	F	J	L Max	Kg
0102 04 00	4	10	5	19	.016
0102 05 00	5	12	8	21	.024
0102 06 00	6	13	8	22	.027
0102 08 00	8	14	10	28	.038
0102 10 00	10	19	12	30	.073
0102 12 00	12	22	15	30	.098
0102 14 00	14	24	19	35	.133
0102 15 00	15	24	19	35	.122
0102 16 00	16	27	19	39	.164
0102 18 00	18	30	23	41	.231
0102 20 00	20	32	23	42	.233
0102 22 00	22	36	27	50	.371
0102 25 00	25	41	27	54	.446
0102 28 00	28	42	32	54.5	.478

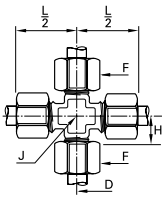


0104 Union Tee

Part No.	O.D.	F	H	J	L 2	Kg
0104 04 00	4	10	9.5	8	19	.028
0104 05 00	5	12	11	8	21	.036
0104 06 00	6	13	11	8	22	.040
0104 08 00	8	14	15	10	28	.055
0104 10 00	10	19	14.5	12	30	.105
0104 12 00	12	22	15	15	30	.142
0104 14 00	14	24	18	19	35	.190
0104 15 00	15	24	18	19	35	.175
0104 16 00	16	27	21	19	39	.239
0104 18 00	18	30	21.5	23	41	.330
0104 20 00	20	32	21.5	23	42	.330
0104 22 00	22	36	29	27	50	.518
0104 25 00	25	41	29	27	54	.630

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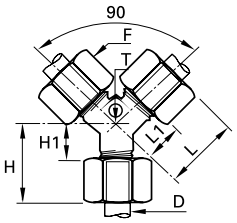




0107 Union Cross

Part No.	O.D.	F	H	J	L2	Kg
0107 04 00	4	10	9.5	8	19	.035
0107 05 00	5	12	11	8	21	.047
0107 08 00	8	14	15	11	28	.073
0107 12 00	12	22	15	15	35	.096
0107 14 00	14	24	18	20	35	.246
0107 15 00	15	24	18	20	35	.227
0107 16 00	16	27	21	20	39	.312
0107 18 00	18	30	21.5	25	41	.426
0107 20 00	20	32	21.5	25	42	.429
0107 22 00	22	36	29	27	50	.676
0107 25 00	25	41	29	27	50	.819

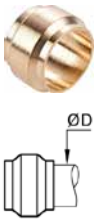




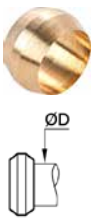
0142 Union Y with Mounting Boss

Part No.	O.D.	F	H Max	H1	L Max	L1	0t	Kg
0142 15 00	15	24	28	11	41.5	24.5	6.2	.204
0142 16 00	16	27	30	12	43	25	6.2	.252
0142 18 00	18	30	31.5	12	50.5	31	10.2	.220
0142 25 00	25	41	39	14	59	34	10.2	.728

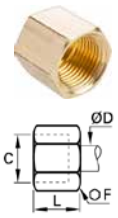
WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



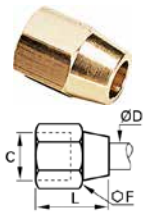
Brass Sleeve
0124



Brass Sleeve
0124



Brass Nut
0110



Brass Nut
0110...60

0124 Suffix 40, 0124 Sleeves

0D mm	Part No.	Wt	Part No.	Wt
4	0124 04 00	.001	-	-
5	0124 05 00	.001	0124 05 00 40	.001
6	0124 06 00	.001	0124 06 00 40	.001
8	0124 08 00	.002	0124 08 00 40	.002
10	0124 10 00	.003	0124 10 00 40	.002
12	0124 12 00	.004	0124 12 00 40	.003
14	0124 14 00	.004	0124 14 00 40	.003
15	0124 15 00	.004	0124 15 00 40	.003
16	0124 16 00	.006	-	-
18	0124 18 00	.007	-	-
20	0124 20 00	.009	-	-
22	0124 22 00	.012	-	-
28	0124 28 00	.017	-	-

0110, 0110 Suffix 60 Nuts

0d mm	C	Part No.	Wt	Part No.	Wt
4	M8X1	0110 04 00	.005	0110 04 00 60	.006
5	M10X1	0110 05 00	.006	0110 05 00 60	.009
6	M10X1	0110 06 00	.008	0110 06 00 60	.011
8	M12X1	0110 08 00	.008	0110 08 00 60	.012
10	M16X1.5	0110 10 00	.019	0110 10 00 60	.027
12	M18X1.5	0110 12 00	.026	0110 12 00 60	.041
14	M20X1.5	0110 14 00	.029	-	-
15	M20X1.5	0110 15 00	.028	0110 15 00 60	.050
16	M22X1.5	0110 16 00	.043	0110 16 00 60	.072
18	M24X1.5	0110 18 00	.059	-	-
20	M27X1.5	0110 20 00	.057	-	-
22	M30X1.5	0110 22 00	.079	-	-
25	M33X1.5	0110 25 00	.121	-	-
28	M36X1.5	0110 28 00	.109	-	-

Technical Specifications of Nuts

Tightening Torque

- Maximum kg = tightening torque for nut 0110 and sleeve 0124 on copper, brass or steel tube

0D mm	Max kg. Torque
4	.7
5	.7
6	1.5
8	1.5
10	1.8
12	3
14	3.5
15	4
16	5
18	6
20	6
22	7
25	8
28	9

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Complementary Brass Fittings – Assembly Configuration

The table and information given below illustrate the large number of options available with Parker Legris brass compression fittings. To these must be added the advantages specific to the original Parker Legris reducer shown on the previous page.

0110 Brass			0110..60 Brass		0110..40 Steel	0110..70* Polymer
	0124 Brass	0111 BNA** Bras	0124 Brass	0111 BNA** Bras	01 24...40 Steel	
No olive required to assemble the plug						No olive required to assemble the tube
Brass plug: 0126 	Copper, cold-rolled brass, polymer tube and barb connectors 0122 and 0165 	Coiled annealed copper tube 	Cold-rolled copper tube for vibration and side loading, etc. 	Coiled annealed copper tube for vibration and side loading, etc. 	Steel or copper tube: low/medium hydraulic pressure, lubricate before assembly 	Polymer tube 

***Assembly specifications for nut-olive 0110 ..70**

This part functions as both olive and nut for flexible polymer tube assemblies:

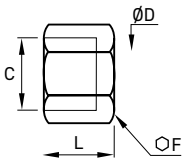
1. Hand tighten the polymer nut-olive a few turns onto the body of the fitting; the knurling makes this easier.
2. Then introduce the polymer tube and push home into the body of the fitting.
3. Continue manually tightening the polymer nut-olive.
4. Finish tightening using a spanner until the nut body disengages and turns freely, which acts as a torque limiter.

N.B.: To avoid damaging the threads, do not insert the tube before hand tightening the nut-olive into the body of the fitting.
**Bureau de Normalisation de l'Automobile (French Automotive Bureau of Standards)

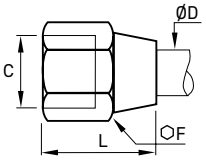
Recommended Tightening Torque

Tightening torque in daN.m = maximum tightening torque of a 0110 nut and 0124 olive with copper, brass or steel tube.

Nut 0110 and 0110..40



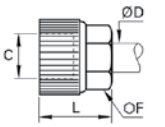
Nut 0110..60



Ø D (mm)	F 0110	F 0110..60	max. daN.m copper or brass	F 0110..40	max. daN.m steel
4	10	11	.7	10	1.5
5	12	12	.7	12	1.5
6	13	12	1.5	13	2.5
8	14	16	1.5	14	2.5
10	19	20	1.8	19	3
12	22	22	3	22	4.5
14	24	24	3.5	24	5.5
15	24	24	4	24	6
16	27	27	5	27	7
18	30	30	6	30	9
20	32	32	6	32	10
22	36	36	7	36	12
25	41	42	8	41	13
28	42		9		

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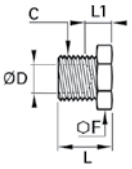
Engineering Plastic

0110 Suffix 70 Nut Sleeve

Part No.	O.D. mm	C	F mm	L mm	Wt
0110 04 00 70	4	M8X1	8	13	.001
0110 06 00 70	6	M10X1	11	15	.002
0110 08 00 70	8	M12X1	13	16	.002
0110 10 00 70	10	M16X1.5	17	19	.004
0110 12 00 70	12	M18X1.5	19	19	.005
0110 14 00 70	14	M20X1.5	22	20	.007
0110 16 00 70	16	M22X1.5	24	21	.009

Plastic nut-sleeve should not be used on metal tubes.





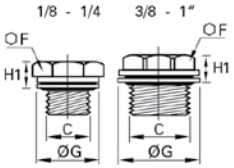
0125 End Plug Metric

Part No.	O.D. mm	C	F mm	L mm	L1 mm	Wt
0125 06 00	6	M10X1	11	13.5	9.5	.009
0125 08 00	8	M12X1	14	14	9	.012
0125 10 00	10	M16X1.5	17	18	11	.025

The plug enables unused tubes to be blanked off. The male thread on the plug has the same pitch as the female thread on the nut of a standard Legris fitting. Therefore, the plug screwed into the nut blanks off the tube.

To reopen the passage, simply unscrew the plug and fit the required connector. No further treatment of the tube is required.



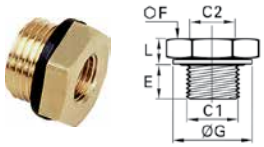


Brass with
Bi-Material Seal

0220 Male Plug BSPP

Part No.	C BSPP	F mm	G mm	H1 mm	Wt
0220 10 00 39	G 1/8	14	14	6.5	.005
0220 13 00 39	G 1/4	17	17	6.5	.016
0220 17 00 39	G 3/8	17	22	8	.021
0220 21 00 39	G 1/2	22	26	9	.045
0220 27 00 39	G 3/4	22	32	10	.053
0220 34 00 39	G 1	27	39.5	10.5	.067

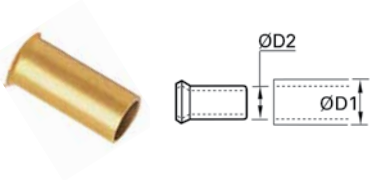
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Brass with
Bi-Material Seal

0168 Reducer Male To Female BSPP

Part No.	C1 BSPP	C2 BSPP	E mm	F mm	G mm	L mm	Wt
0168 10 19 39	G 1/8	M5X.8	8	14	14	4.5	.010
0168 13 19 39	G 1/4	M5X.8	8	17	17	5	.012
0168 13 10 39	G 1/4	G 1/8	8	17	17	5	.020
0168 17 10 39	G 3/8	G 1/8	10	19	22	5	.028
0168 17 13 39	G 3/8	G 1/4	10	19	22	5	.035
0168 21 10 39	G 1/2	G 1/8	12	24	26	7.5	.039
0168 21 13 39	G 1/2	G 1/4	12	24	26	7.5	.056
0168 21 17 39	G 1/2	G 3/8	12	24	26	7.5	.062
0168 27 13 39	G 3/4	G 1/4	12	32	32	9.5	.067
0168 27 17 39	G 3/4	G 3/8	12	32	32	9.5	.097
0168 27 21 39	G 3/4	G 1/2	12	32	32	9.5	.116



0127 Tube Support for Plastic Tube

Part No.	0D1 mm	0D2 mm	Wt
0127 04 00	4	2	.001
0127 04 27	4	2.7	.001
0127 05 03	5	3	.001
0127 05 00	5	3.3	.001
0127 06 00	6	4	.001
0127 08 55	8	5.5	.001
0127 08 00	8	6	.001
0127 10 07	10	7	.002
0127 10 75	10	7.5	.002
0127 10 00	10	8	.002
0127 12 08	12	8	.002
0127 12 09	12	9	.002

Part No.	0D1 mm	0D2 mm	Wt
0127 12 00	12	10	.002
0127 14 11	14	11	.003
0127 14 00	14	12	.003
0127 15 12	15	12	.003
0127 16 13	16	13	.003
0127 18 14	18	14	.004
0127 20 15	20	15	.004
0127 22 16	22	16	.005
0127 25 19	25	19	.005

At high temperature and pressure or during oscillating movements, the use of tube supports prevents distortion of the tube and guarantees effective gripping and sealing.

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POLY-TITE FITTINGS

Parker's Poly-Tite Fittings are compact, pre-assembled compression style fittings designed for fast assembly. An exclusive acetal copolymer sleeve has superior resilience to resist creeping and stress caused from compression.

Product Features:

- Self aligning captive sleeve
- Built-in tube support
- Knurled nuts for hand tightening
- Plastic and brass sleeves available
- Nickel plated and stainless steel side latch couplers available

Markets:

- Dental
- Packaging
- Machine Tools
- Car Wash
- Printing

Applications:

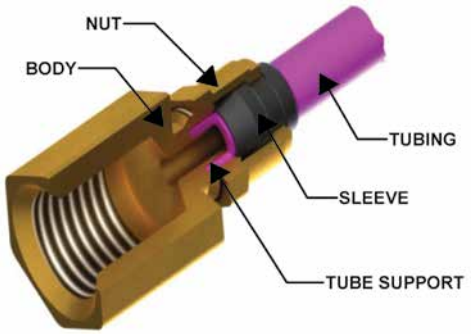
- Pneumatic Systems
- Water Lines
- Dental Equipment

Specifications:

Pressure Range	Up to 150 PSI (10.3 bar)
Temperature Range	0° to +150° F (-17.7° to +65.5° C)
O-rings	Buna N on nickel plated couplers Fluorocarbon on Stainless Steel couplers

Compatible Tubing:

- Polyethylene
- Nylon
- Polypropylene
- Vinyl



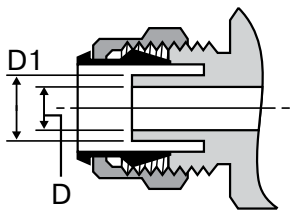
Assembly Instructions

Polyethylene, polypropylene and vinyl tubing:

1. Cut tubing squarely–maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Insert tube end until it bottoms in the Poly-Tite fitting and tighten knurl/hex nut finger-tight — plus one wrench turn.

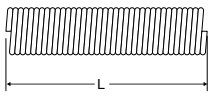
Tube Support O.D.

Tube Size Inches	* D1 Tube Support O.D.
1/4	.168
5/16	.185
3/8	.248
1/2	.373



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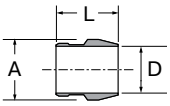




Spring Guard 56PSG

Part No.	Tube O.D.	L
56PSG-4	1/4	3.000
56PSG-6	3/8	3.000

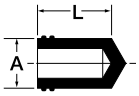




Acetal Plastic Sleeve 60P

Part no.	Tube Size	A	D	L
60P-4	1/4	.334	.261	.338
60P-5	5/16	.405	.321	.340
60P-6	3/8	.465	.381	.367
60P-8	1/2	.628	.514	.399

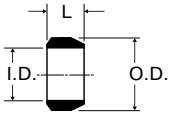




Plastic Cap 59P

Part No.	Tube Size	A	L
59P-4	1/4	.247	.50
59P-6	3/8	.372	.56

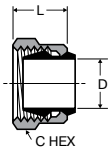




Sleeve 60PB

Part no.	I	O.D.	I.D.
60PB-4	.187	.336	.255
60PB-5	.187	.400	.318
60PB-6	.218	.460	.382
60PB-8	.250	.620	.507



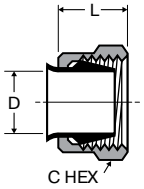


Nut and Plastic Sleeve Assembly 61P

Part No.	Tube Size	Straight Thread	C Hex	D	L
61P-4	1/4	3/8-24	7/16	.261	.38
61P-5	5/16	7/16-24	1/2	.321	.34
61P-6	3/8	1/2-24	9/16	.380	.38
61P-8	1/2	11/16-20	3/4	.514	.44

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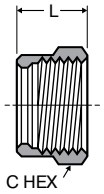




Nut and Brass Sleeve Assembly 61PB

Part No.	Tube Size	Straight Thread	C Hex	D	L
61PB-4	1/4	3/8-24	7/16	.255	.38
61PB-5	5/16	7/16-24	1/2	.318	.34
61PB-6	3/8	1/2-24	9/16	.382	.38
61PB-8	1/2	11/16-20	3/4	.507	.44

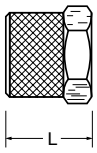




Nut 61PN

Part No.	Tube Size	Straight Thread	C Hex	L
61PN-4	1/4	3/8-24	7/16	.38
61PN-5	5/16	7/16-24	1/2	.34
61PN-6	3/8	1/2-24	9/16	.38
61PN-8	1/2	11/16-20	3/4	.44

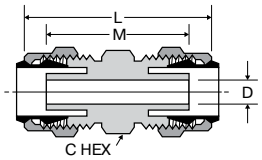




Nut only for use with Spring Gaurd 61PSGN

Part No.	Tube O.D.	L	C Hex
61PSGN-4	1/4	.625	.437
61PSGN-6	3/8	.656	.562

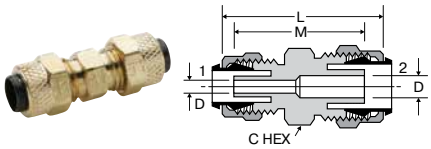




Union 62P

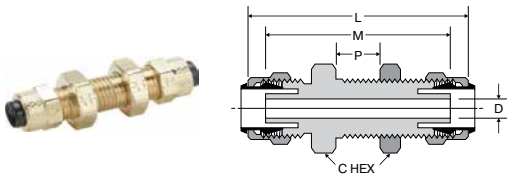
Part No.	Tube Size	Straight Thread	C Hex	L	M	Flow Dia. D
62P-4	1/4	3/8-24	3/8	1.17	.96	.125
62P-5	5/16	7/16-24	7/16	1.16	.96	.144
62P-6	3/8	1/2-24	1/2	1.23	.99	.204
62P-8	1/2	11/16-20	11/16	1.47	1.24	.323

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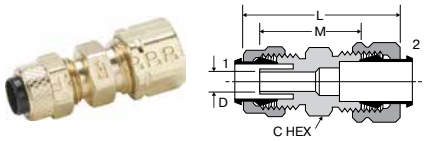
Union Reducer 62P

Part No.	1 Tube Size	2 Tube Size	1 Straight Thread	2 Straight Thread	C Hex	L	M	Flow Dia. D
62P-6-4	1/4	3/8	3/8-24	1/2-24	1/2	1.22	.99	.125



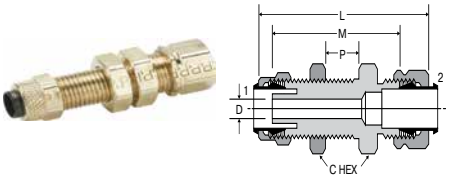
Bulkhead Union 62PBH

Part No.	Tube Size	Straight Thread	C Hex	P Max.	L	M	Bulkhead Hole Dia.	Flow Dia. D
62PBH-4	1/4	3/8-24	9/16	.38	1.75	1.53	3/8	.125
62PBH-5	5/16	7/16-24	5/8	.38	1.71	1.52	7/16	.144
62PBH-6	3/8	1/2-24	11/16	.47	1.89	1.65	1/2	.204
62PBH-8	1/2	11/16-20	7/8	.63	2.28	2.05	11/16	.323



Union 62PCA (Tube to Compress-Align)

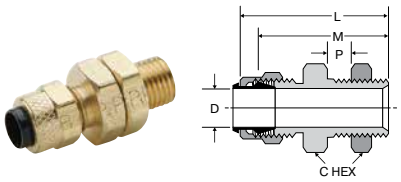
Part No.	Tube Size	1 Straight Thread	2 Straight Thread	C Hex	L	M	Flow Dia. D
62PCA-4	1/4	3/8-24	7/16-24	7/16	1.25	.89	.125
62PCA-5	5/16	7/16-24	1/2-24	1/2	1.30	.92	.144
62PCA-6	3/8	1/2-24	9/16-24	9/16	1.37	.98	.204



Bulkhead Union 62PCABH (Tube to Compress-Align)

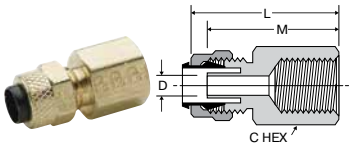
Part No.	Tube Size	1 Str Thd	2 Str Thd	C Hex	P Max	L	M	Blkhd Hole Dia.	Flow Dia. D
62PCABH-4	1/4	3/8-24	7/16-24	9/16	.38	1.81	1.45	3/8	.125
62PCABH-6	3/8	1/2-24	9/16-24	11/16	.47	2.03	1.64	1/2	.204

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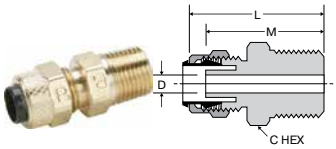
Bulkhead Union 62PTBH (Straight Through)

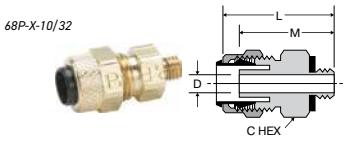
Part No.	Tube Size	Straight Thread	C Hex	P Max.	L	M	Bulkhead Hole Dia.	Flow Dia. D
62PTBH-4	1/4	3/8-24	9/16	.31	1.19	.93	3/8	.260
62PTBH-5	5/16	7/16-24	5/8	.31	1.19	.93	7/16	.323
62PTBH-6	3/8	1/2-24	11/16	.34	1.26	.99	1/2	.387



Female Connector 66P

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. D
66P-4-2	1/4	1/8	3/8-24	9/16	.97	.86	.125
66P-4-4	1/4	1/4	3/8-24	5/8	1.18	1.07	.125
66P-5-2	5/16	1/8	7/16-24	9/16	.97	.86	.144
66P-6-4	3/8	1/4	1/2-24	5/8	1.18	1.07	.204
66P-8-6	1/2	3/8	11/16-20	13/16	1.31	1.20	.323

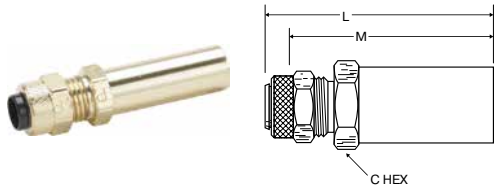




Male Connector 68P

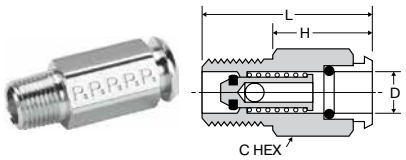
Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. D
68P-4-1	1/4	1/16	3/8-24	3/8	1.06	.95	.125
68P-4-10X32	1/4	10-32	3/8-24	3/8	.86	.75	.094
68P-4-2	1/4	1/8	3/8-24	7/16	1.06	.95	.125
68P-4-4	1/4	1/4	3/8-24	9/16	1.25	1.14	.125
68P-4-6	1/4	3/8	3/8-24	11/16	1.28	1.17	.125
68P-5-2	5/16	1/8	7/16-24	7/16	1.05	.95	.144
68P-5-4	5/16	1/4	7/16-24	9/16	1.24	1.14	.144
68P-6-2	3/8	1/8	1/2-24	1/2	1.10	.98	.204
68P-6-4	3/8	1/4	1/2-24	9/16	1.29	1.17	.204
68P-6-6	3/8	3/8	1/2-24	11/16	1.29	1.17	.204
68P-8-4	1/2	1/4	11/16-20	11/16	1.46	1.29	.320
68P-8-6	1/2	3/8	11/16-20	11/16	1.37	1.29	.323

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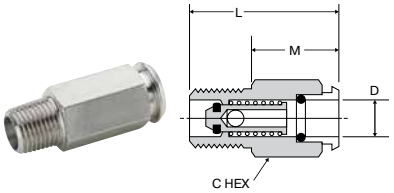
Tube End Reducer 97P

Part No.	Tube O.D.	L	M	C Hex
97P-4-6	3/8 X 1/4	1.718	1.625	.437
97P-6-8	1/2 X 3/8	1.875	1.781	.562



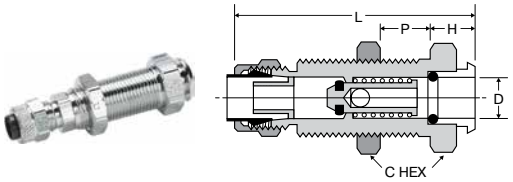
Pipe Coupler Body 391P (Chrome Plated)

Part No.	D-Insert Dia.	Pipe Thread	C Hex	H	L
391P-4-2	1/4	1/8	1/2	.91	1.29
391P-4-4	1/4	1/4	9/16	.73	1.29
391P-6-4	3/8	1/4	11/16	.85	1.41



Pipe Coupler Body 391PSS (Stainless Steel)

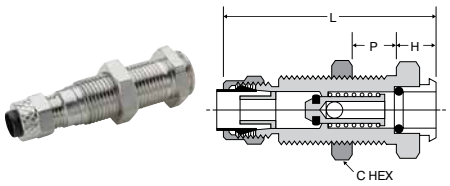
Part No.	D-Insert Dia.	Pipe Thread	L	C Hex	M
391PSS-4-2	1/4	1/8	1.271	.500	.900
391PSS-4-4	1/4	1/4	1.271	.562	.710
391PSS-6-4	3/8	1/4	1.40	.625	.840



Bulkhead Coupler Body 392P (Chrome Plated)

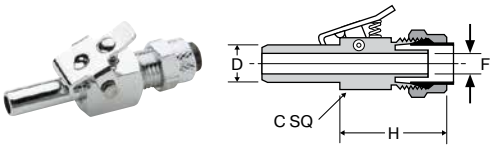
Part No.	Tube Size	D-Insert Dia.	Straight Thread	C Hex	P Max.	H	L	Bulkhead Hole Dia.
392P-4-4	1/4	1/4	1/2-24	5/8	.84	.39	2.13	1/2
392P-6-6	3/8	3/8	11/16-24	13/16	.93	.37	2.01	11/16

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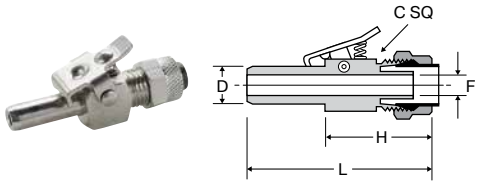
Bulkhead Coupler Body 392PSS (Stainless Steel)

Part No.	Tube O.D.	Bulkhead Thread	L	C Hex	H	P Max	Bulkhead Hole Dia.
392PSS-4-4	1/4	1/2-24	2.03	.625	.28	.84	1/2
392PSS-6-6	3/8	11/16-24	2.20	.812	.31	.93	11/16



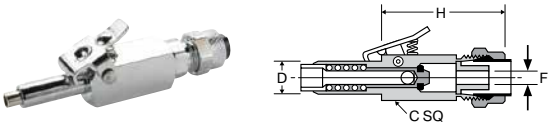
Through Type Insert 393P (Chrome Plated)

Part No.	Tube Size	D-Insert Dia.	Straight Thread	C Square	H	Flow Dia. F
393P-4-4	1/4	1/4	3/8-24	7/16	1.12	.125
393P-6-6	3/8	3/8	1/2-24	1/2	1.34	.203



Through Type Insert 393PSS (Stainless Steel)

Part No.	Tube O.D.	D-Insert Dia.	L	C Square	H	Flow Dia. F
393PSS-4-4	1/4	1/4	1.677	7/16	.99	.125
393PSS-6-6	3/8	3/8	2.030	1/2	1.27	.203

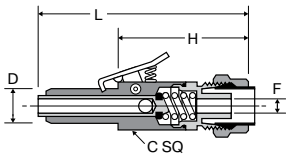


Shutoff Type Insert 393PD (Chrome Plated)

Part No.	Tube Size	D-Insert Dia.	Straight Thread	C Square	H	Flow Dia. F
393PD-4-4	1/4	1/4	3/8-24	7/16	1.61	.110
393PD-6-6	3/8	3/8	1/2-24	1/2	1.45	.187

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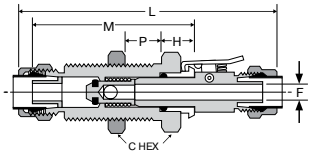




Shut-Off Type Insert 393PDSS (Stainless Steel)

Part No.	Tube O.D.	D-Insert Dia.	L	C Square	H	Flow Dia. F
393PDSS-4-4	1/4	1/4	2.46	.500	1.62	.116
393PDSS-6-6	3/8	3/8	2.60	.500	1.67	.157

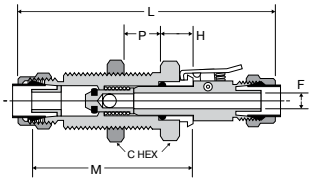




Single End Shutoff Bulkhead Quick Coupler 394P (Chrome Plated)

Part No.	Tube Size	Straight Thread	C Hex	P Max	H	L	M	Bulkhead Hole Dia.	Flow Dia. F
394P-4-4	1/4	1/2-24	5/8	.84	.39	3.28	2.13	1/2	.125
394P-6-6	3/8	11/16-24	13/16	.93	.37	3.41	2.01	11/16	.203

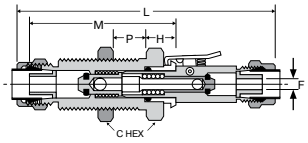




Coupler Single End Shut-Off Bulkhead 394PSS (Stainless Steel)

Part No.	Tube O.D.	Bulkhead Thread	L	M	C Hex	H	P Max	Flow Dia. F
394PSS-4-4	1/4	1/2-24	3.05	2.06	.625	.31	.84	.125
394PSS-6-6	3/8	11/16-24	3.50	2.23	.812	.34	.93	.203



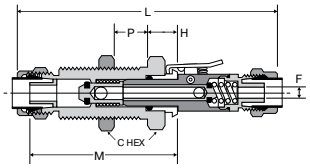


Double End Shutoff Bulkhead Quick Coupler 394PD (Chrome Plated)

Part No.	Tube Size	Straight Thread	C Hex	P Max	H	L	M	Bulkhead Hole Dia.	Flow Dia. F
394PD-4-4	1/4	1/2-24	5/8	.84	.39	3.77	2.13	1/2	.125
394PD-6-6	3/8	11/16-24	13/16	.93	.37	3.48	2.01	11/16	.204

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

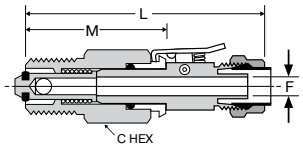




Double End Shut-Off Bulkhead Quick Coupler 394PDSS (Stainless Steel)

Part No.	Tube O.D.	Bulkhead Thread	L	M	C Hex	h	P MAX	Flow Dia. F
394PDSS-4-4	1/4	1/2-24	3.69	2.67	.625	.32	.84	.125
394PDSS-6-6	3/8	11/16-24	3.91	2.24	.812	.34	.93	.203

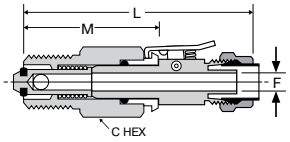




Single End Shutoff Pipe Connector Quick Coupler 398P (Chrome Plated)

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. F
398P-4-2	1/4	1/8	3/8-24	1/2	2.45	1.32	.125
398P-4-4	1/4	1/4	3/8-24	9/16	2.45	1.32	.125
398P-6-4	3/8	1/4	1/2-24	5/8	2.80	1.46	.203

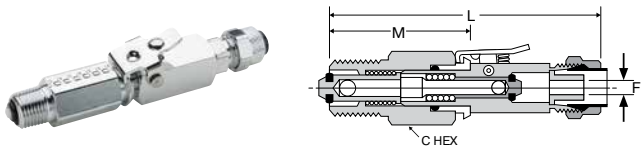




Single End Shut-Off Connector Quick Coupler 398PSS (Stainless Steel)

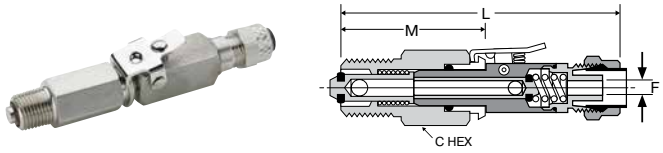
Part No.	Tube O.D.	Pipe Thread	L	M	C Hex	Flow Dia. F
398PSS-4-2	1/4	1/8	2.30	1.32	.500	.125
398PSS-4-4	1/4	1/4	2.30	1.32	.562	.125
398PSS-6-4	3/8	1/4	2.70	1.43	.625	.203

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



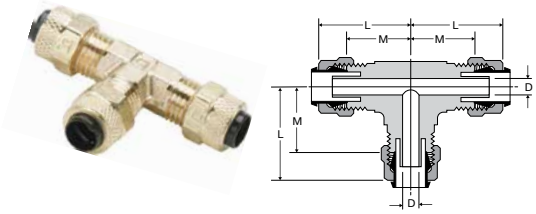
Double End Shutoff Pipe Connector Quick Coupler 398PD (Chrome Plated)

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	M	Flow Dia. F
398PD-4-2	1/4	1/8	3/8-24	1/2	2.93	1.31	.125
398PD-4-4	1/4	1/4	3/8-24	9/16	2.93	1.32	.125
398PD-6-4	3/8	1/4	1/2-24	5/8	2.88	1.43	.204



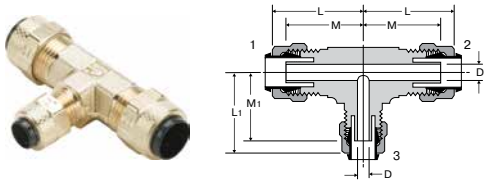
Double End Shut-Off Pipe Connector Quick Coupler 398PDSS (Stainless Steel)

Part No.	Tube O.D.	Pipe Thread	L	M	C Hex	Flow Dia. D
398PDSS-4-2	1/4	1/8	2.93	1.31	.500	.125
398PDSS-4-4	1/4	1/4	2.93	1.31	.562	.125
398PDSS-6-4	3/8	1/4	3.10	1.43	.625	.125



Union Tee 164P

Part No.	Tube Size	Straight Thread	L	M	Flow Dia. D
164P-4	1/4	3/8-24	.84	.73	.125
164P-5	5/16	7/16-24	.83	.73	.144
164P-6	3/8	1/2-24	.98	.86	.203
164P-8	1/2	11/16-20	1.12	1.04	.323

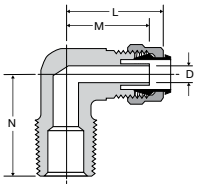


Union Tee 164P combination size

Part No.	1 Tube Size	2 Tube Size	3 Tube Size	L	L1	M	M1	Flow Dia. D
164P-6-4	3/8	3/8	1/4	.98	.90	.86	.79	.125

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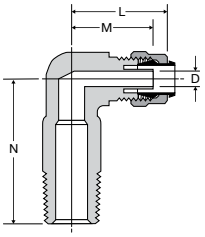




Male Elbow 169P

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
169P-4-1	1/4	1/16	3/8-24	.92	.58	.67	.130
169P-4-2	1/4	1/8	3/8-24	.84	.73	.75	.121
169P-4-4	1/4	1/4	3/8-24	.90	.79	.92	.125
169P-4-6	1/4	3/8	3/8-24	.93	.84	1.08	.125
169P-5-2	5/16	1/8	7/16-24	.87	.73	.68	.144
169P-6-2	3/8	1/8	1/2-24	.93	.81	.73	.203
169P-6-4	3/8	1/4	1/2-24	.98	.86	1.05	.203
169P-6-6	3/8	3/8	1/2-24	.98	.86	1.08	.203
169P-8-6	1/2	3/8	11/16-20	1.12	1.04	1.13	.323

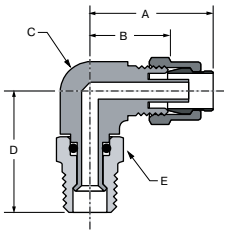




Long Male Elbow 169LP

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
169LP-4-4	1/4	1/4	3/8-24	.90	.79	1.38	.125



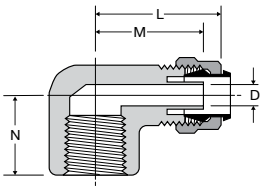


Male Elbow Swivel 169PS

Part No.	Tube O.D.	Pipe Thread	A	B	C Hex	D	E
169PS-4-2	1/4	1/8	.812	.594	.375	.862	.437
169PS-4-4	1/4	1/4	.906	.688	.562	1.218	.562
169PS-6-2	3/8	1/8	.875	.625	.437	.904	.437
169PS-6-4	3/8	1/4	.937	.685	.562	1.218	.562
169PS-6-6	3/8	3/8	.859	.602	.562	1.190	.687
169PS-8-6	1/2	3/8	1.031	.782	.500	1.218	.687

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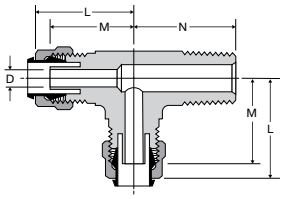




Female Elbow 170P

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
170P-4-2	1/4	1/8	3/8-24	.90	.79	.56	.125
170P-4-4	1/4	1/4	3/8-24	1.00	.89	.69	.125
170P-6-4	3/8	1/4	1/2-24	1.01	.89	.69	.204
170P-8-6	1/2	3/8	11/16-20	1.19	1.11	1.13	.323

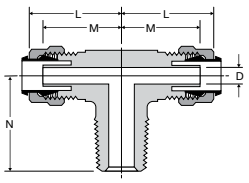




Male Run Tee 171P

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
171P-4-2	1/4	1/8	3/8-24	.84	.73	.72	.125
171P-4-4	1/4	1/4	3/8-24	.92	.81	.92	.125
171P-5-2	5/16	1/8	7/16-24	.83	.73	.72	.144
171P-6-4	3/8	1/4	1/2-24	.98	.86	1.03	.203
171P-8-6	1/2	3/8	11/16-20	1.12	1.04	1.13	.323



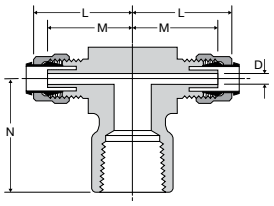


Male Branch Tee 172P

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
172P-4-2	1/4	1/8	3/8-24	.84	.73	.72	.125
172P-4-4	1/4	1/4	3/8-24	.92	.81	.92	.125
172P-5-2	5/16	1/8	7/16-24	.83	.73	.72	.144
172P-6-2	3/8	1/8	1/2-24	.88	.86	.74	.204
172P-6-4	3/8	1/4	1/2-24	.98	.86	1.03	.204
172P-8-6	1/2	3/8	11/16-20	1.12	1.04	1.13	.323

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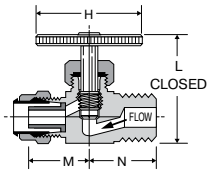




Female Branch Tee 177P

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
177P-4-2	1/4	1/8	3/8-24	.92	.81	.88	.125
177P-4-4	1/4	1/4	3/8-24	.92	.81	1.03	.125
177P-4-6	1/4	3/8	3/8-24	1.03	.92	1.13	.125

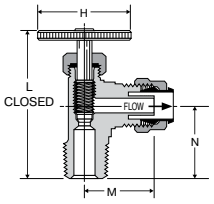




Needle Valve NV311P

Part No.	Tube Size	Pipe Thread	H	L Open	L Closed	M	N
NV311P-4-2	1/4	1/8	1.06	1.36	1.16	.64	.63
NV311P-4-4	1/4	1/4	1.06	1.38	1.18	.64	.72
NV311P-6-4	3/8	1/4	1.06	1.38	1.18	.64	.72





Angle Needle Valve NV312P

Part No.	Tube Size	Pipe Thread	H	L Open	L Closed	M	N
NV312P-4-2	1/4	1/8	1.06	1.70	1.50	.63	.68
NV312P-4-4	1/4	1/4	1.06	2.07	1.82	.71	.86
NV312P-6-4	3/8	1/4	1.06	2.00	1.75	.74	.86

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HI-DUTY FLARELESS TUBE FITTINGS



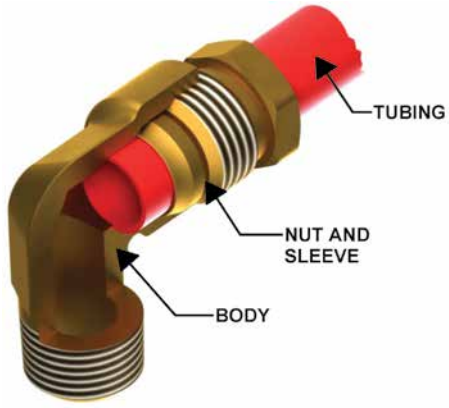
Parker's Hi-Duty Fittings are preassembled with the sleeve machined onto the nut. During assembly the sleeve breaks away from the nut and creates a seal on the tubing. Rated to a much higher pressure rating than compression fittings, Hi-Duty will work with seamless steel tubing as well as copper, brass and thermoplastic tubing.

Product Features:

- All brass construction
- Two piece fitting
- Higher pressure rating
- Easy assembly
- Pre-applied Vibra-Seal thread sealant available

Markets:

- Mobile
- Industrial
- Compressors
- Lubrication



Applications:

- Lubrication Lines
- Coolant Lines
- Oil Lines
- Engines

Compatible Tubing:

- Copper
- Brass
- Seamless Steel
- Thermoplastic Tubing

Specifications:

Temperature Range: -65˚ to +250˚ F (-53.8° to +121.1° C)

Pressure Range:

tube size	psi	bar	tube size	psi	bar
1/8	4300	296.4	3/8	1500	103.4
3/16	2850	196.5	1/2	1150	79.2
1/4	2100	144.7	5/8	1000	68.9
5/16	1800	124.1			

Assembly Instructions

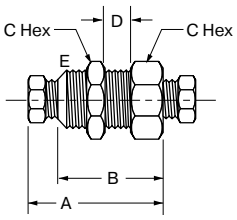




1. Cut tube squarely and cleanly removing all burrs.
2. Grasp fitting. Do not remove nut.
3. Insert tube in fitting through nut until tube seats firmly against tube shoulder in body.
4. Grip tube firmly to prevent turning and tighten nut to finger-tight. Continue to tighten for one and three-quarter additional turns (one and one-half turns for 1/2" size fittings) for a positive, leak proof seal. During tightening a slight "give" will be felt. This "give" indicates the sleeve has been sheared from the nut. It is not necessary to tighten the nut all the way down.

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

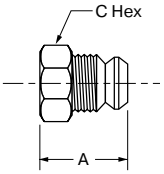




Bulkhead Union 62HDBH

Part No.	Tube Size	Min. Orifice Size	A	B	C	D	E
62HDBH-2	1/8	.093	1.781	1.156	.562	.625	7/16-24
62HDBH-4	1/4	.187	1.968	1.156	.687	.625	9/16-24

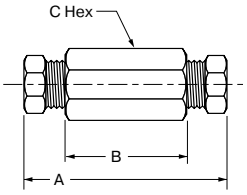




Nut/Sleeve 61HD

Part No.	Tube Size	Pipe Thread	A	C
61HD-2	1/8	5/16-24	.656	.312
61HD-3	3/16	3/8-24	.687	.375
61HD-4	1/4	7/16-24	.734	.437
61HD-5	5/16	1/2-20	.765	.500
61HD-6	3/8	9/16-20	.843	.562
61HD-8	1/2	11/16-16	.921	.688
61HD-10	5/8	7/8-18	1.078	.875

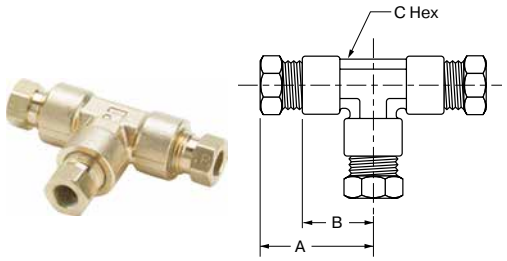




Union 62HD

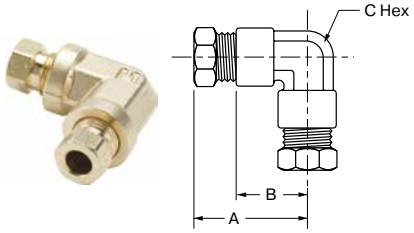
Part No.	Tube Size	Min. Orifice Size	A	B	C
62HD-2	1/8	.093	1.687	1.062	.375
62HD-3	3/16	.125	1.781	1.031	.437
62HD-4	1/4	.187	1.906	1.093	.562
62HD-6	3/8	.312	2.187	1.375	.625
62HD-8	1/2	.437	2.437	1.562	.812
62HD-10	5/8	.500	2.937	1.812	1.062

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



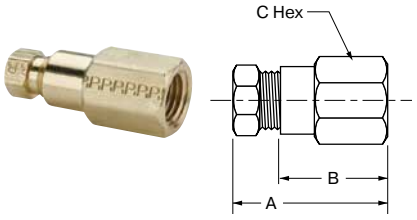
Union Tee 164HD

Part No.	Tube Size	Min. Orifice Size	A	B	C Hex
164HD-4	1/4	.187	1.082	.687	.500
164HD-6	3/8	.312	1.357	.970	.562
164HD-8	1/2	.437	1.481	1.060	.750



Union Elbow 165HD

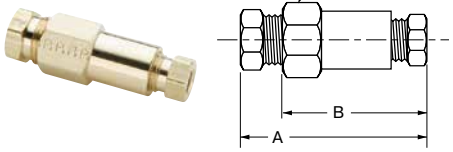
Part No.	Tube Size	Min. Orifice Size	A	B	C Hex
165HD-4	1/4	.187	1.084	.690	.552
165HD-6	3/8	.312	1.376	.970	.615
165HD-8	1/2	.437	1.546	1.060	.750



Female Connector 66HD

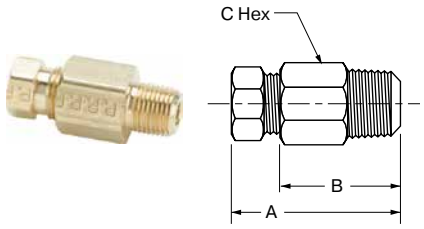
Part No.	Tube Size	Pipe Thread	Min. Orifice Size	A	B	C Hex
66HD-2-2	1/8	1/8	.093	1.312	1.000	.500
66HD-4-2	1/4	1/8	.187	1.406	1.000	.562
66HD-4-4	1/4	1/4	.187	1.593	1.187	.687
66HD-6-2	3/8	1/8	.312	1.531	1.125	.625
66HD-6-4	3/8	1/4	.312	1.718	1.312	.625
66HD-6-6	3/8	3/8	.312	1.750	1.343	.812

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Reducing Union 62HD

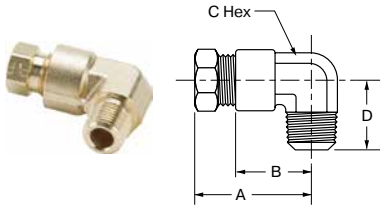
Part No.	Tube Size	Min. Orifice Size	A	B	C Hex
62HD-6-4	3/8 X 1/4	.187	2.000	1.187	.625
62HD-8-4	1/2 X 1/4	.187	2.125	1.281	.812
62HD-8-6	1/2 X 3/8	.312	2.656	1.406	.812



Male Connector 68HD

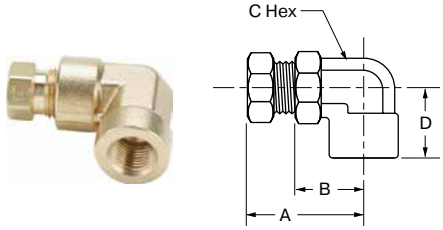
Part No.	Tube Size	Pipe Thread	Min. Orifice Size	A	B	C Hex
68HD-2-2	1/8	1/8	.093	1.062	.750	.437
68HD-3-2	3/16	1/8	.125	1.140	.765	.437
68HD-4-2	1/4	1/8	.187	1.343	.937	.562
68HD-4-4	1/4	1/4	.187	1.468	1.062	.562
68HD-4-6	1/4	3/8	.187	1.343	.937	.687
68HD-4-8	1/4	1/2	.187	1.531	1.125	.875
68HD-5-2	5/16	1/8	.218	1.406	1.000	.562
68HD-5-4	5/16	1/4	.218	1.500	1.093	.562
68HD-6-2	3/8	1/8	.218	1.531	1.125	.625
68HD-6-4	3/8	1/4	.312	1.656	1.250	.625
68HD-6-6	3/8	3/8	.312	1.531	1.125	.687
68HD-6-8	3/8	1/2	.312	1.531	1.125	.875
68HD-8-4	1/2	1/4	.312	1.813	1.375	.812
68HD-8-6	1/2	3/8	.406	1.750	1.312	.812
68HD-8-8	1/2	1/2	.437	1.812	1.375	.875
68HD-8-12	1/2	3/4	.437	1.625	1.187	1.062
68HD-10-6	5/8	3/8	.406	2.031	1.468	1.062
68HD-10-8	5/8	1/2	.500	2.156	1.593	1.062

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Male Elbow 169HD

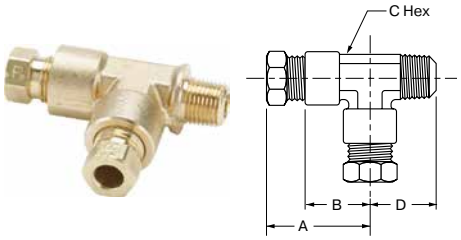
Part No.	Tube Size	Pipe Thread	Min. Orifice Size	A	B	C Hex	D
169HD-2-2	1/8	1/8	.093	.975	.656	.438	.720
169HD-3-2	3/16	1/8	.125	1.056	.687	.437	.750
169HD-4-2	1/4	1/8	.187	1.084	.687	.500	.750
169HD-4-4	1/4	1/4	.187	1.144	.750	.500	.937
169HD-5-2	5/16	1/8	.218	1.144	.750	.562	.810
169HD-5-4	5/16	1/4	.250	1.206	.812	.562	1.000
169HD-6-2	3/8	1/8	.218	1.281	.875	.562	.875
169HD-6-4	3/8	1/4	.312	1.281	.875	.562	1.000
169HD-6-6	3/8	3/8	.312	1.376	.970	.615	1.031
169HD-6-8	3/8	1/2	.312	1.526	1.120	.687	1.310
169HD-8-4	1/2	1/4	.312	1.421	1.000	.678	1.062
169HD-8-6	1/2	3/8	.406	1.421	1.000	.678	1.062
169HD-8-8	1/2	1/2	.437	1.481	1.060	.740	1.420
169HD-10-6	5/8	3/8	.406	1.818	1.270	.875	1.340
169HD-10-8	5/8	1/2	.500	1.818	1.270	.875	1.480



Female Elbow 170HD

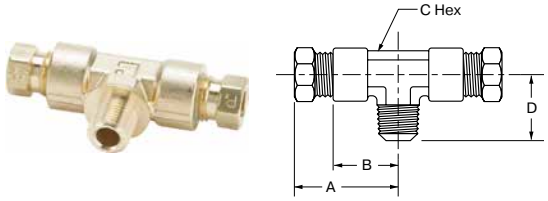
Part No.	Tube Size	Pipe Thread	Min. Orifice Size	A	B	C Hex	D
170HD-2-2	1/8	1/8	.093	1.005	.690	.500	.750
170HD-4-2	1/4	1/8	.187	1.084	.687	.500	.750
170HD-4-4	1/4	1/4	.187	1.234	.843	.562	.875
170HD-6-2	3/8	1/8	.312	1.281	.875	.562	.937
170HD-6-4	3/8	1/4	.312	1.376	.970	.615	1.093
170HD-6-6	3/8	3/8	.312	1.526	1.120	.690	1.150
170HD-8-6	1/2	3/8	.437	1.481	1.062	.740	1.281

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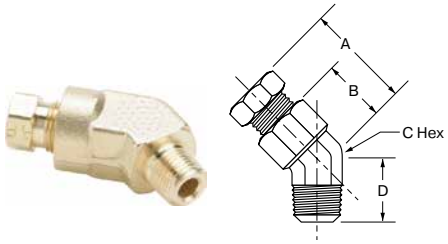
Male Run Tee 171HD

Part No.	Tube Size	Pipe Thread	Min. Orifice Size	A	B	C Hex	D
171HD-4-2	1/4	1/8	.187	1.144	.750	.500	.780
171HD-4-4	1/4	1/4	.187	1.207	.812	.500	.937
171HD-6-4	3/8	1/4	.312	1.376	.970	.562	1.000



Male Branch Tee 172HD

Part No.	Tube Size	Pipe Thread	Min. Orifice Size	A	B	C Hex	D
172HD-4-2	1/4	1/8	.187	1.082	.687	.500	.780
172HD-4-4	1/4	1/4	.187	1.269	.875	.500	.937
172HD-6-6	3/8	3/8	.312	1.406	1.000	.562	1.125

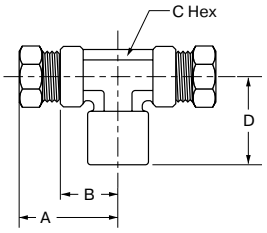


45° Male Elbow 179HD

Part No.	Tube Size	Pipe Thread	Min. Orifice Size	A	B	C Hex	D
179HD-4-2	1/4	1/8	.187	1.093	.687	.562	.750
179HD-6-4	3/8	1/4	.280	1.138	.710	.550	.850

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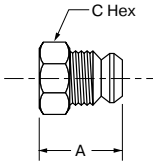




Female Branch Tee 177HD

Part No.	Tube Size	Pipe Thread	Min. Orifice Size	A	B	C Hex	D
177HD-4-2	1/4	1/8	.187	1.082	.687	.500	.750
177HD-4-4	1/4	1/4	.187	1.144	.750	.562	1.093
177HD-6-4	3/8	1/4	.312	1.376	.970	.562	1.093



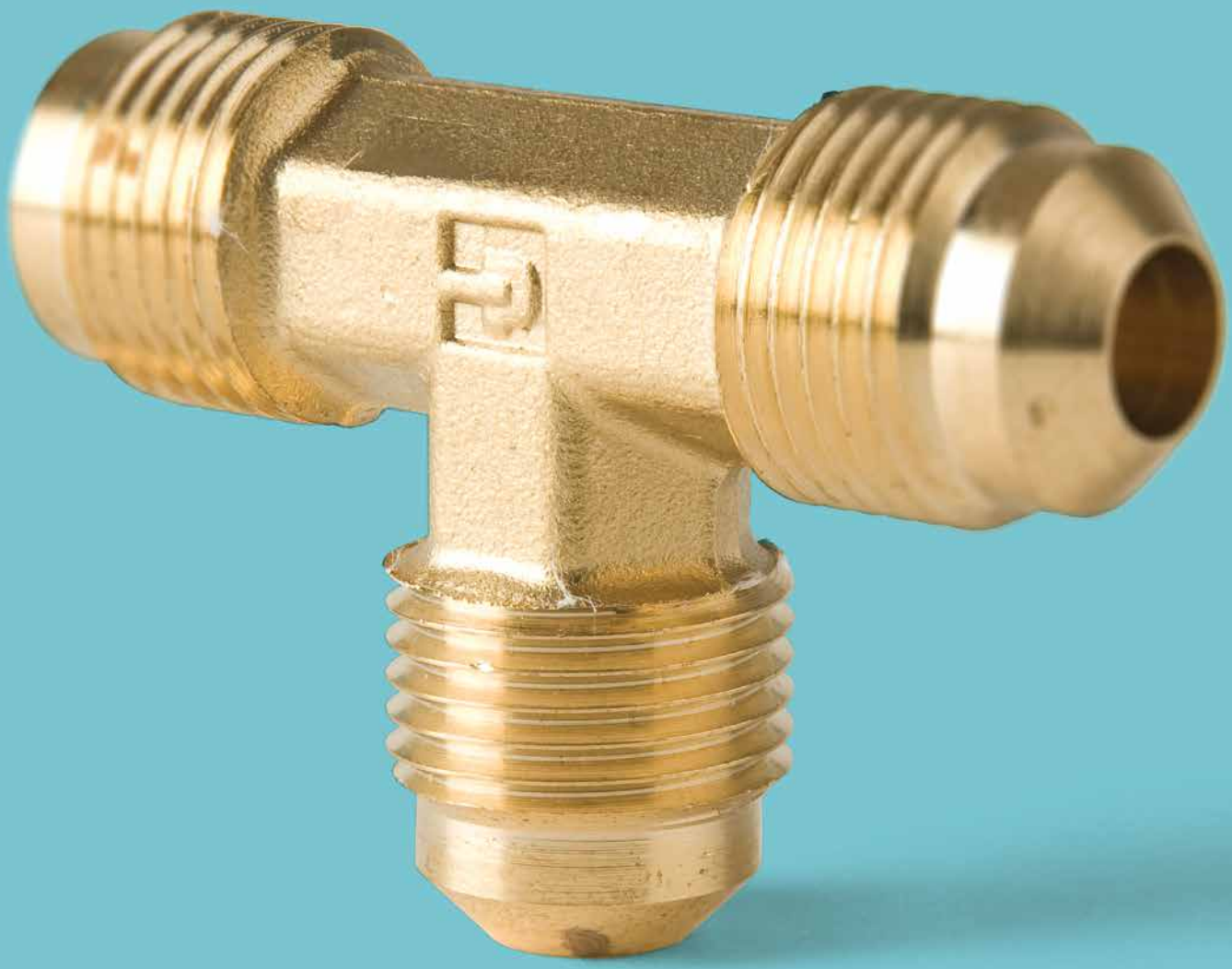


Plug 59HD

Part No.	Tube Size	A	C
59HD-4	1/4	.734	.437
59HD-6	3/8	.843	.625

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Notes



INDUSTRIAL
FLARE FITTINGS

45° Flare Fittings, Inverted Flared Fittings, Access Valves

Parker



45° FLARE FITTINGS

Parker's Flare Fittings is an economical choice for a metal-to-metal seal that resists mechanical pullout. Meets functional requirements of SAE J512 and SAE J513.

Product Features:

- All brass construction
- Resists vibration with use of long nut
- UL listing
- Functional requirements of SAE J512 and J513
- Pre-applied Vibra-Seal thread sealant available

Tube Size	psi	bar	Tube Size	psi	bar
5/16	1200	82.7	3/4	550	37.9



Markets:

- Refrigeration
- Heavy Duty Truck
- Mobile
- Industrial
- Heating
- Air Conditioning

Applications:

- Refrigerant Lines
- Propane
- Fuels
- Adapters
- Natural Gas

Compatible Tubing:

- Copper
- Brass
- Aluminum
- Welded Steel Hydraulic Tubing

Specifications:

Temperature Range: -65° to +250° F (-53.8° to 121.1° C)

Pressure Range:

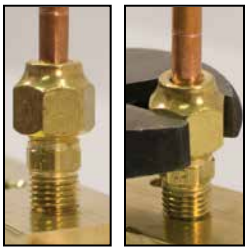
Tube Size	psi	bar	Tube Size	psi	bar
1/8	2800	193.0	3/8	1000	68.9
3/16	1900	131.0	1/2	750	51.7
1/4	1400	96.5	5/8	650	44.8

Assembly Instructions

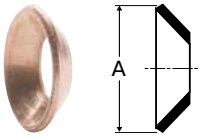
1. Cut tubing squarely and clean tube end thoroughly to remove burrs.
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. Flare tube end with flaring tool to provide 45° flare.
4. Clamp tube flare between nut and nose of fitting body by screwing nut on finger-tight. Tighten with a wrench an additional 1/4 to 1/2 turn past finger-tight for a metal-to-metal seal.







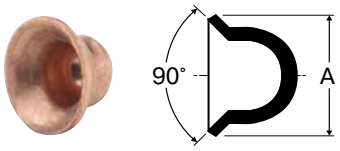
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Copper Flare Gasket 2GF

Ref. SAE 010113

Part No.	Tube Size	A
2GF-3	3/16	.32
2GF-4	1/4	.36
2GF-5	5/16	.43
2GF-6	3/8	.56
2GF-8	1/2	.67
2GF-10	5/8	.78
2GF-12	3/4	.97

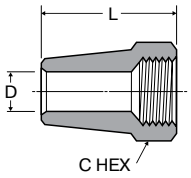


Seal Bonnet 3GF

Ref. SAE 010114

Part No.	Tube Size	A
3GF-3	3/16	.32
3GF-4	1/4	.37
3GF-5	5/16	.43
3GF-6	3/8	.56
3GF-8	1/2	.67
3GF-10	5/8	.78
3GF-12	3/4	.97





Long Nut 41FL

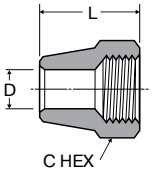
Ref. SAE 010111

Part No.	Tube Size	Straight Thread	C Hex	D	L
41FL-2	1/8	5/16-24	3/8	.133	.75
41FL-3	3/16	3/8-24	7/16	.195	.81
41FL-4	1/4	7/16-20	9/16	.257	.94
41FL-5	5/16	1/2-20	5/8	.320	1.12
41FL-6	3/8	5/8-18	3/4	.382	1.31
41FL-8	1/2	3/4-16	7/8	.507	1.62
41FL-10	5/8	7/8-14	1-1/16	.632	1.88
41FL-12	3/4	1-1/16-14	1-1/4	.757	2.19

*Comes standard with thread protectors

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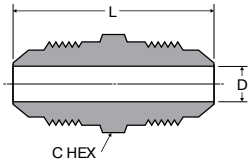


Short Nut 41FS / Shorter Nut 41FX

Ref. SAE 010110

Part No.	Tube Size	Straight Thread	C Hex	D	L
41FS-2	1/8	5/16-24	3/8	.132	.50
41FS-3	3/16	3/8-24	7/16	.195	.62
41FS-4	1/4	7/16-20	9/16	.257	.75
41FS-5	5/16	1/2-20	5/8	.320	.88
41FS-6	3/8	5/8-18	3/4	.382	1.00
41FX-6	3/8	5/8-18	3/4	.382	.91
41FS-8	1/2	3/4-16	7/8	.507	1.12
41FX-8	1/2	3/4-16	7/8	.507	1.00
41FS-10	5/8	7/8-14	1-1/16	.632	1.31
41FX-10	5/8	7/8-14	1-1/16	.632	1.06
41FX-12	3/4	1-1/16-14	1-1/4	.757	1.17
41FS-12	3/4	1-1/16-14	1-1/4	.757	1.50
41FS-14	7/8	1-1/4-12	1-1/2	.882	1.62





Union 42F

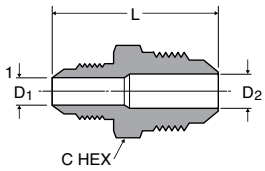
Ref. SAE 010101 *Thread Protectors

Part No.	Tube Size	Straight Thread	C Hex	L	D
42F-2	1/8	5/16-24	5/16	.90	.079
42F-3	3/16	3/8-24	3/8	1.04	.125
42F-4	1/4	7/16-20	7/16	1.17	.189
42F-5	5/16	1/2-20	1/2	1.32	.220
42F-6	3/8	5/8-18	5/8	1.48	.282
42F-8	1/2	3/4-16	3/4	1.79	.407
42F-10	5/8	7/8-14	7/8	2.10	.501
42F-12*	3/4	1-1/16-14	1-1/16	2.42	.626
42F-14*	7/8	1-1/4-12	1-1/4	2.72	.751

*Comes standard with thread protectors

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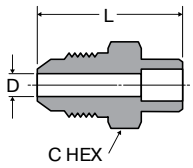


Union Reducers 42F

Ref. SAE 010101

Part No.	1 Tube Size	2 Tube Size	1 Straight Thread	2 Straight Thread	C Hex	L	Flow Dia. D1	Flow Dia. D2
42F-6-4	1/4	3/8	7/16-20	5/8-18	5/8	1.36	.189	.282
42F-6-5	5/16	3/8	1/2-20	5/8-18	5/8	1.42	.220	.282
42F-8-4	1/4	1/2	7/16-20	3/4-16	3/4	1.54	.189	.407
42F-8-6	3/8	1/2	5/8-18	3/4-16	3/4	1.67	.282	.407
42F-10-6	3/8	5/8	5/8-18	7/8-14	7/8	1.86	.282	.501
42F-10-8	1/2	5/8	3/4-16	7/8-14	7/8	1.98	.407	.501





Flare to Solder 43F

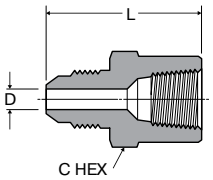
Ref. SAE 010104

Part No.	Tube Size	Solder Od	Straight Thread	C Hex	L	Flow Dia. D
43F-4-4	1/4	1/4	7/16-20	7/16	.98	.189
43F-4-5	1/4	5/16	7/16-20	7/16	.98	.189
43F-4-6	1/4	3/8	7/16-20	1/2	.98	.189
43F-6-4	3/8	1/4	5/8-18	5/8	1.17	.189
43F-6-5	3/8	5/16	5/8-18	5/8	1.17	.252
43F-6-6	3/8	3/8	5/8-18	5/8	1.17	.282
43F-6-8	3/8	1/2	5/8-18	5/8	1.23	.282
43F-6-10	3/8	5/8	5/8-18	3/4	1.36	.282
43F-8-6	1/2	3/8	3/4-16	3/4	1.36	.314
43F-8-8	1/2	1/2	3/4-16	3/4	1.42	.407
43F-8-10	1/2	5/8	3/4-16	3/4	1.54	.407
43F-10-8	5/8	1/2	7/8-14	7/8	1.60	.440
43F-10-10	5/8	5/8	7/8-14	7/8	1.73	.501
43F-10-12*	5/8	3/4	7/8-14	7/8	1.86	.501
43F-12-12*	3/4	3/4	1-1/16-14	1-1/16	2.04	.626
43F-12-14*	3/4	7/8	1-1/16-14	1-1/16	2.17	.626

*Comes standard with thread protectors

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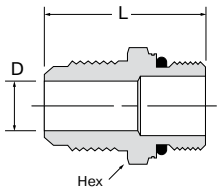


Female Connector 46F

Ref. SAE 010103

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	Flow Dia. D
46F-2-2	1/8	1/8	5/16-24	9/16	.91	.078
46F-3-2	3/16	1/8	3/8-24	9/16	.95	.125
46F-4-2	1/4	1/8	7/16-20	9/16	1.01	.189
46F-4-4	1/4	1/4	7/16-20	11/16	1.23	.189
46F-4-6	1/4	3/8	7/16-20	13/16	1.26	.189
46F-5-2	5/16	1/8	1/2-20	9/16	1.05	.220
46F-5-4	5/16	1/4	1/2-20	11/16	1.26	.220
46F-6-2	3/8	1/8	5/8-18	5/8	1.10	.282
46F-6-4	3/8	1/4	5/8-18	11/16	1.29	.282
46F-6-6	3/8	3/8	5/8-18	13/16	1.36	.282
46F-6-8	3/8	1/2	5/8-18	1	1.60	.282
46F-8-4	1/2	1/4	3/4-16	3/4	1.39	.407
46F-8-6	1/2	3/8	3/4-16	13/16	1.48	.407
46F-8-8	1/2	1/2	3/4-16	1	1.73	.407
46F-8-12*	1/2	3/4	3/4-16	1-1/4	1.79	.407
46F-10-6	5/8	3/8	7/8-14	7/8	1.57	.501
46F-10-8	5/8	1/2	7/8-14	1	1.80	.501
46F-10-12*	5/8	3/4	7/8-14	1-1/4	1.89	.501





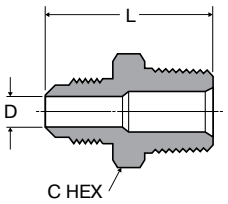
Flare to Metric Adaptor 48F-X-MIX

Part Number	Tube Size	Metric Thread	Straight Thread Tube	Hex	L	D
48F-8-MII6	1/2	M16 X 1.5	3/4-16	7/8	1.60	.35
48F-10-MI27	5/8	M27 X 2.0	7/8-14	1 1/4	1.87	.50
48F-12-MI27*	3/4	M27 X 2.0	1 1/16-14	1 1/4	1.99	.63

Note: Fluorocarbon o-ring is standard

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



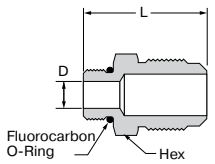


Male Connector 48F

Ref. SAE 010102

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	Flow Dia. D
48F-2-2	1/8	1/8	5/16-24	7/16	.91	.078
48F-3-2	3/16	1/8	3/8-24	7/16	.98	.125
48F-3-4	3/16	1/4	3/8-24	9/16	1.17	.125
48F-4-2	1/4	1/8	7/16-20	7/16	1.04	.189
48F-4-4	1/4	1/4	7/16-20	9/16	1.23	.189
48F-4-6	1/4	3/8	7/16-20	11/16	1.29	.189
48F-4-8	1/4	1/2	7/16-20	7/8	1.54	.189
48F-5-2	5/16	1/8	1/2-20	1/2	1.14	.220
48F-5-4	5/16	1/4	1/2-20	9/16	1.32	.220
48F-5-6	5/16	3/8	1/2-20	11/16	1.36	.220
48F-6-2	3/8	1/8	5/8-18	5/8	1.23	.220
48F-6-4	3/8	1/4	5/8-18	5/8	1.42	.282
48F-6-6	3/8	3/8	5/8-18	11/16	1.42	.282
48F-6-8	3/8	1/2	5/8-18	7/8	1.67	.282
48F-6-12*	3/8	3/4	5/8-18	1-1/16	1.79	.282
48F-8-4	1/2	1/4	3/4-16	3/4	1.60	.407
48F-8-6	1/2	3/8	3/4-16	3/4	1.60	.407
48F-8-8	1/2	1/2	3/4-16	7/8	1.79	.407
48F-8-12	1/2	3/4	3/4-16	1-1/16	1.92	.407
48F-10-4	5/8	1/4	7/8-14	7/8	1.79	.313
48F-10-6	5/8	3/8	7/8-14	7/8	1.79	.408
48F-10-8	5/8	1/2	7/8-14	7/8	1.98	.501
48F-10-12*	5/8	3/4	7/8-14	1-1/16	2.04	.501
48F-12-8*	3/4	1/2	1-1/16-14	1-1/16	2.17	.563
48F-12-12*	3/4	3/4	1-1/16-14	1-1/16	2.17	.626
48F-14-12*	7/8	3/4	1-1/4-12	1-1/4	2.35	.751





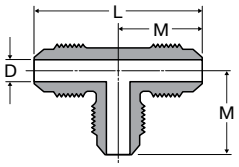
Flare to SAE Straight Thread 485F

Part No.	Tube Size	Straight Thread	Straight Thread Tube	Hex	L	Flow Dia. D
485F-12-8*	3/4	3/4-16	1 1/16-14	1 1/16	1.80	.397
485F-12-12*	3/4	1 1/16-12	1 1/16-14	1 1/4	2.03	.615

*Comes standard with thread protectors

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



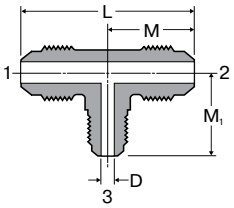


Union Tee 144F

Ref. SAE 010401

Part No.	Tube Size	Straight Thread	L	M	Flow Dia. D
144F-3	3/16	3/8-24	1.46	.73	.125
144F-4	1/4	7/16-20	1.72	.86	.189
144F-5	5/16	1/2-20	1.82	.91	.220
144F-6	3/8	5/8-18	2.08	1.04	.282
144F-8	1/2	3/4-16	2.46	1.23	.407
144F-10	5/8	7/8-14	2.78	1.39	.501

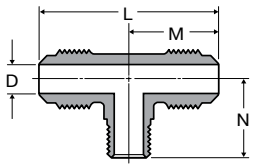




Union Tee 144F combination sizes

Part No.	1 Tube Size	2 Tube Size	3 Tube Size	L	M	M1	Flow Dia. D
144F-6-6-4	3/8	3/8	1/4	2.08	1.04	.89	.189
144F-8-8-6	1/2	1/2	3/8	2.40	1.20	1.10	.282





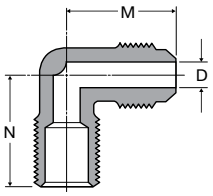
Male Branch Tee 145F

Ref. SAE 010425

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
145F-2-2	1/8	1/8	5/16-24	1.26	.63	.69	.079
145F-4-2	1/4	1/8	7/16-20	1.58	.79	.76	.189
145F-4-4	1/4	1/4	7/16-20	1.78	.89	.92	.189
145F-5-4	5/16	1/4	1/2-20	1.90	.95	.96	.220
145F-6-4	3/8	1/4	5/8-18	1.96	.98	1.05	.282
145F-6-6	3/8	3/8	5/8-18	2.00	1.00	.98	.282
145F-6-8	3/8	1/2	5/8-18	2.28	1.14	1.26	.282
145F-8-6	1/2	3/8	3/4-16	2.40	1.20	1.10	.407
145F-8-8	1/2	1/2	3/4-16	2.46	1.23	1.36	.407
145F-10-8	5/8	1/2	7/8-14	2.78	1.39	1.36	.501

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Male Elbow 149F

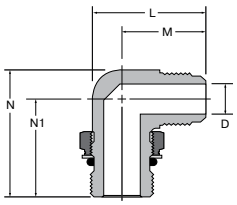
Ref. SAE 010202

Part No.	Tube Size	Pipe Thread	Straight Thread	M	N	Flow Dia. D
149F-2-2	1/8	1/8	5/16-24	.63	.69	.079
149F-3-2	3/16	1/8	3/8-24	.73	.73	.125
149F-4-2	1/4	1/8	7/16-20	.79	.76	.189
149F-4-4	1/4	1/4	7/16-20	.89	.92	.189
149F-4-6	1/4	3/8	7/16-20	.92	1.01	.189
149F-4-8	1/4	1/2	7/16-20	1.02	1.26	.189
149F-5-2	5/16	1/8	1/2-20	.90	.79	.220
149F-5-4	5/16	1/4	1/2-20	.95	.95	.220
149F-5-6	5/16	3/8	1/2-20	.98	1.01	.220
149F-6-2⁺	3/8	1/8	5/8-18	1.01	.90	.220
149F-6-4	3/8	1/4	5/8-18	1.01	1.05	.282
149F-6-6	3/8	3/8	5/8-18	1.04	1.07	.282
149F-6-8	3/8	1/2	5/8-18	1.15	1.26	.282
149F-6-12*	3/8	3/4	5/8-18	1.25	1.38	.282
149F-8-4⁺	1/2	1/4	3/4-16	1.20	1.17	.314
149F-8-6	1/2	3/8	3/4-16	1.20	1.10	.407
149F-8-8	1/2	1/2	3/4-16	1.28	1.38	.407
149F-8-12*	1/2	3/4	3/4-16	1.38	1.38	.407
149F-10-4⁺	5/8	1/4	7/8-14	1.41	1.25	.314
149F-10-6⁺	5/8	3/8	7/8-14	1.41	1.25	.407
149F-10-8	5/8	1/2	7/8-14	1.40	1.39	.501
149F-10-12*	5/8	3/4	7/8-14	1.42	1.48	.501
149F-12-8*⁺	3/4	1/2	1-1/16-14	1.60	1.48	.563
149F-12-12*	3/4	3/4	1-1/16-14	1.60	1.62	.626

⁺ For these parts the pipe thread through hole is smaller than the through hole on the flare end.
*Comes standard with thread protectors

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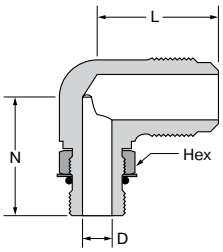


Flare Elbow to ISO 6149 Metric Straight Thread 149F-X-MIX

Part Number	Tube Size	Metric Thread	Straight Thread Tube	L	M	N	N1	D
149F-10-MI27	5/8	M27 X 2.0	7/8-14	1.95	1.46	2.12	1.63	.501

Note: Fluorocarbon o-ring is standard



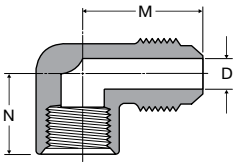


Flare Elbow to SAE Straight Thread 1495F

Part No.	Tube Size	Straight Thread	Straight Thread Tube	Hex	L	N	Flow Dia. D
1495F-12-12*	3/4	1-1/16-12	1 1/16-14	1 1/4	1.59	2.12	.616

Note: Fluorocarbon o-ring is standard
*Comes standard with thread protectors





Female Elbow 150F

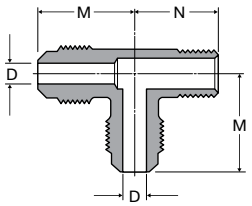
Ref. SAE 010203

Part No.	Tube Size	Pipe Thread	Straight Thread	M	N	Flow Dia. D
150F-4-2	1/4	1/8	7/16-20	.86	.50	.189
150F-4-4	1/4	1/4	7/16-20	.95	.67	.189
150F-5-4	5/16	1/4	1/2-20	1.01	.67	.220
150F-6-2	3/8	1/8	5/8-18	1.08	.48	.282
150F-6-4	3/8	1/4	5/8-18	1.07	.67	.282
150F-6-6	3//8	3/8	5/8-18	1.14	.67	.282
150F-6-8	3/8	1/2	5/8-18	1.23	.86	.282
150F-8-6	1/2	3/8	3/4-16	1.25	.69	.407
150F-8-8	1/2	1/2	3/4-16	1.36	.92	.407
150F-8-12	1/2	3/4	3/4-16	1.51	.92	.407
150F-10-8*	5/8	1/2	7/8-14	1.48	.98	.501
150F-10-12*	5/8	3/4	7/8-14	1.64	.98	.501

*Comes standard with thread protectors

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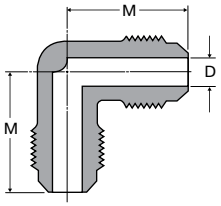


Male Run Tee 151F

Ref. SAE 010424

Part No.	Tube Size	Pipe Thread	Straight Thread	M	N	Flow Dia. D
151F-4-2	1/4	1/8	7/16-20	.86	.76	.189
151F-4-4	1/4	1/4	7/16-20	.89	.92	.189
151F-5-4	5/16	1/4	1/2-20	.95	.92	.220
151F-6-4	3/8	1/4	5/8-18	1.04	1.04	.282
151F-6-6	3/8	3/8	5/8-18	1.00	.98	.282
151F-6-8	3/8	1/2	5/8-18	1.16	1.26	.282
151F-8-6	1/2	3/8	3/4-16	1.20	1.10	.407
151F-8-8	1/2	1/2	3/4-16	1.23	1.36	.407
151F-10-8	5/8	1/2	7/8-14	1.39	1.36	.501





Union Elbow 155F

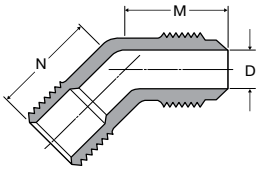
Ref. SAE 010201

Part No.	Tube Size	Straight Thread	M	Flow Dia. D
155F-2	1/8	5/16-24	.64	.079
155F-3	3/16	3/8-24	.73	.125
155F-4	1/4	7/16-20	.86	.189
155F-5	5/16	1/2-20	.92	.220
155F-6	3/8	5/8-18	1.04	.282
155F-8	1/2	3/4-16	1.20	.407
155F-10	5/8	7/8-14	1.39	.501
155F-12*	3/4	1-1/16-14	1.64	.626

*Comes standard with thread protectors

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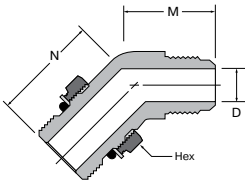
45° Elbow 159F

Ref. SAE 010302

Part No.	Tube Size	Pipe Thread	Straight Thread	M	N	Flow Dia. D
159F-4-2	1/4	1/8	7/16-20	.65	.56	.189
159F-4-4	1/4	1/4	7/16-20	.75	.84	.189
159F-5-2	5/16	1/8	1/2-20	.76	.65	.220
159F-5-4	5/16	1/4	1/2-20	.75	.81	.220
159F-6-2+	3/8	1/8	5/8-18	.89	.67	.220
159F-6-4	3/8	1/4	5/8-18	.89	.86	.282
159F-6-6	3/8	3/8	5/8-18	.91	.93	.282
159F-8-4+	1/2	1/4	3/4-16	1.06	.95	.314
159F-8-6	1/2	3/8	3/4-16	1.04	.93	.407
159F-8-8	1/2	1/2	3/4-16	1.12	1.16	.407
159F-10-6+	5/8	3/8	7/8-14	1.13	.95	.407
159F-10-8	5/8	1/2	7/8-14	1.21	1.16	.501
159F-12-8*+	3/4	1/2	1-1/16-14	1.28	1.16	.560

+ For these parts the pipe thread through hole is smaller than the through hole on the flare end.



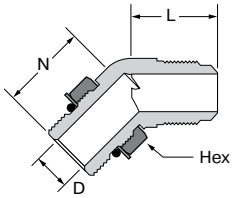


45° Flare Elbow to SAE Metric Straight Thread 159F-X-MIX

Part Number	Tube Size	Metric Thread	Straight Thread Tube	Hex	M	N	D
159F-8-MII6	1/2	M16 X 1.5	3/4-16	22MM	1.10	1.16	.36
159F-10-MI27	5/8	M27 X 2.0	7/8-14	1 1/4	1.21	1.50	.50

Note: Fluorocarbon o-ring is standard





45° Flare to SAE Straight Thread 1595F

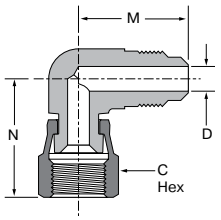
Part No.	Tube Size	Straight Thread	Straight Thread Tube	Hex	L	N	Flow Dia. D
1595F-8-8	1/2	3/4-16	3/4-16	7/8	1.00	1.16	.398
1595F-12-8*	3/4	3/4-16	1 1/16-14	7/8	1.41	1.30	.398
1595F-12-12*	3/4	1 1/16-12	1 1/16-14	1 1/4	1.41	1.45	.615

Note: Fluorocarbon o-ring is standard

* Comes standard with thread protectors

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90° Swivel Elbow 166FSV

Part No.	Tube Size	Straight Thread	C Hex	M	N	Flow Dia. D
166FSV-4-4	1/4	7/16-20	9/16	.86	.93	.189
166FSV-6-6	3/8	5/8-18	3/4	1.04	1.12	.282
166FSV-8-8	1/2	3/4-16	7/8	1.20	1.29	.407
166FSV-10-10	5/8	7/8-14	1	1.39	1.50	.501
166FSV-12-12*	3/4	1-1/16-14	1-1/4	1.60	1.83	.626

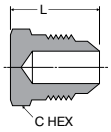
* Comes standard with thread protectors



Adapter Tee 156F

Part No.	Tube Size	Pipe Thread	Straight Thread	M	N	N1	Flow Dia. D
156F-4-2	1/4	1/8	7/16-20	.76	.75	.66	.188





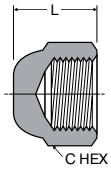
Flared Seal Plug 639F

Ref. SAE 010109

Part No.	Tube Size	Straight Thread	C Hex	L
639F-4	1/4	7/16-20	7/16	.69
639F-5	5/16	1/2-20	1/2	.78
639F-6	3/8	5/8-18	5/8	.88
639F-8	1/2	3/4-16	3/4	1.06
639F-10	5/8	7/8-14	7/8	1.19

* Comes standard with thread protectors
† Should be used with 2GF flare gasket





Cap Nut 640F

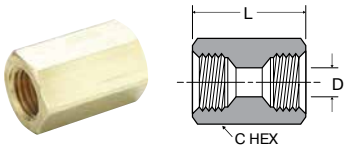
Ref. SAE 010112

Part No.	Tube Size	Straight Thread	C Hex	L
640F-3†	3/16	3/8-24	1/2	.47
640F-4†	1/4	7/16-20	9/16	.53
640F-5†	5/16	1/2-20	5/8	.62
640F-6†	3/8	5/8-18	3/4	.69
640F-8†	1/2	3/4-16	7/8	.84
640F-10†	5/8	7/8-14	1-1/16	.97

† Should be used with 2GF flare gasket

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Flared Union–Female Flare to Female Flare 660FHD

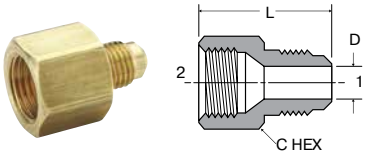


Ref. SAE 010107

Part No.	Tube Size	Straight Thread	C Hex	L	Flow Dia. D
660FHD-4†	1/4	7/16-20	5/8	.98	.251
660FHD-6†	3/8	5/8-18	13/16	1.24	.376
660FHD-8†	1/2	3/4-16	15/16	1.43	.501
660FHD-10†	5/8	7/8-14	1-1/16	1.67	.626

† Should be used with 2GF flare gasket

Male Flare to Female Flare 661FHD

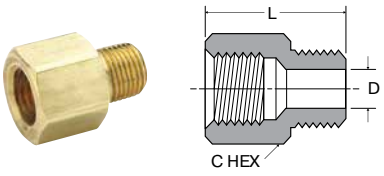


Ref. SAE 010105

Part No.	1 Tube Size	2 Tube Size	1 Straight Thread	2 Straight Thread	C Hex	L	Flow Dia. D
661FHD-4-6†	1/4	3/8	7/16-20	5/8-18	13/16	1.20	.189
661FHD-4-8†	1/4	1/2	7/16-20	3/4-16	15/16	1.36	.189
661FHD-6-4†	3/8	1/4	5/8-18	7/16-20	5/8	1.10	.282
661FHD-6-8†	3/8	1/2	5/8-18	3/4-16	15/16	1.42	.282
661FHD-8-6†	1/2	3/8	3/4-16	5/8-18	13/16	1.39	.407
661FHD-8-10†	1/2	5/8	3/4-16	7/8-14	1-1/16	1.67	.407
661FHD-10-8†	5/8	1/2	7/8-14	3/4-16	15/16	1.60	.501
661FHD-10-12*†	5/8	3/4	7/8-14	1-1/16-14	1-5/16	1.95	.501
661FHD-12-10*†	3/4	5/8	1-1/16-14	7/8-14	1-1/16	1.86	.626

* Comes standard with thread protectors
† Should be used with 2GF flare gasket

Female Flare to Male Pipe Thread 664FHD



Ref. SAE 010106

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	Flow Dia. D
664FHD-4-2†	1/4	1/8	7/16-20	5/8	.91	.220
664FHD-4-4†	1/4	1/4	7/16-20	5/8	1.01	.252
664FHD-6-4†	3/8	1/4	5/8-18	13/16	1.28	.345
664FHD-8-6†	1/2	3/8	3/4-16	15/16	1.31	.407

† Should be used with 2GF flare gasket

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

INVERTED FLARED FITTINGS



Parker's Inverted Flare Fittings offers a metal-to-metal seal that is internal to the fitting for tighter tube bends. These fittings are listed with UL and meets the functional requirements of SAE J512.

Product Features:

- All brass construction
- UL listed for flammable liquid and gas
- Meets functional requirements of SAE J512
- Steel nut for economy
- Pre-applied Vibra-Seal thread sealant available



Markets:

- Air Conditioning
- Marine
- Mobile
- Engines

Applications:

- Refrigerant Lines
- Brake Lines
- Fuel Lines

Compatible Tubing:

- Copper
- Brass
- Aluminum
- Welded Steel Hydraulic Tubing

Specifications:

Temperature Range: -65˚ to +250˚ F (-53.8° to 121.1° C)

Pressure Range:

tube size	psi	bar	tube size	psi	bar
1/8	2800	193.0	3/8	1000	68.9
3/16	1900	131.0	1/2	750	51.7
1/4	1400	96.5	5/8	650	44.8
5/16	1200	82.7	3/4	550	37.9

Assembly Instructions

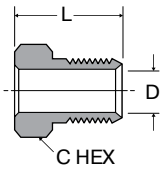




1. Cut tubing squarely and clean to remove burrs
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. Flare tube end with flaring tool to provide 45˚ flare
4. On thin wall copper, welded or brazed tubing, use double flare to prevent pinch-off or cracked flares
5. Clamp tube flare between nut and nose of fitting body by screwing nut on finger tight. Tighten nut with a wrench an additional 1/4 to 1/2 turn past finger tight for a metal-to-metal seal.

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



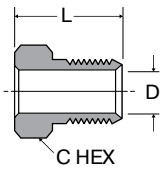


Nut 41IF

Ref. SAE 040110

Part No.	Tube Size	Straight Thread	C Hex	L	D
41IF-2	1/8	5/16-28	5/16	.52	.133
41IF-3	3/16	3/8-24	3/8	.56	.196
41IF-4	1/4	7/16-24	7/16	.56	.259
41IF-5	5/16	1/2-20	1/2	.62	.321
41IF-6	3/8	5/8-18	5/8	.66	.384
41IF-8	1/2	3/4-18	3/4	.74	.508
41IF-10	5/8	7/8-18	7/8	.80	.633



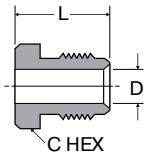


Steel Nut–Zinc 41IFS

Ref. SAE 040110

Part No.	Tube Size	Straight Thread	C Hex	L	D
41IFS-3	3/16	3/8-24	3/8	.56	.196



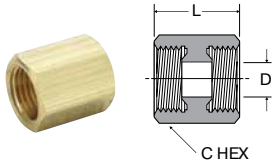


Piloted Nut 41IFF for Single Flared Tubing

Ref. SAE 040110

Part No.	Tube Size	Straight Thread	C Hex	L	D
41IFF-2	1/8	5/16-28	5/16	.52	.133
41IFF-3	3/16	3/8-24	3/8	.56	.196
41IFF-4	1/4	7/16-24	7/16	.56	.259
41IFF-5	5/16	1/2-20	1/2	.62	.321
41IFF-6	3/8	5/8-18	5/8	.66	.384
41IFF-8	1/2	3/4-18	3/4	.74	.508

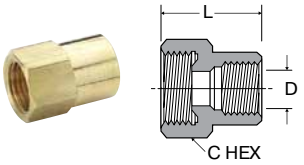
WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Union 42IFHD

Ref. SAE 040101

Part No.	Tube Size	Straight Thread	C Hex	L	D
42IFHD-2	1/8	5/16-28	13/32	.60	.078
42IFHD-3	3/16	3/8-24	15/32	.63	.125
42IFHD-4	1/4	7/16-24	17/32	.63	.189
42IFHD-5	5/16	1/2-20	19/32	.71	.220
42IFHD-6	3/8	5/8-18	3/4	.81	.282

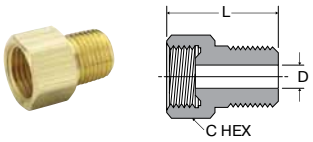


Female Connector 46IFHD

Ref. SAE 040103

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	Flow Dia. D
46IFHD-3-2	3/16	1/8	3/8-24	1/2	.76	.125
46IFHD-4-2	1/4	1/8	7/16-24	17/32	.78	.189
46IFHD-5-2	5/16	1/8	1/2-20	19/32	.79	.220
46IFHD-6-4	3/8	1/4	5/8-18	3/4	1.04	.282

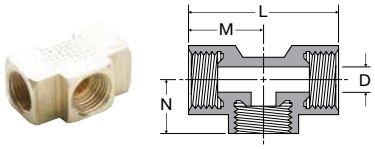
⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Male Connector 48IFHD

Ref. SAE 040102

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	Flow Dia. D
48IFHD-2-2	1/8	1/8	5/16-28	13/32	.63	.078
48IFHD-3-2	3/16	1/8	3/8-24	15/32	.70	.125
48IFHD-4-2	1/4	1/8	7/16-24	17/32	.74	.189
48IFHD-4-4	1/4	1/4	7/16-24	9/16	.89	.189
48IFHD-5-2	5/16	1/8	1/2-20	19/32	.79	.220
48IFHD-5-4	5/16	1/4	1/2-20	19/32	.98	.220
48IFHD-6-2	3/8	1/8	5/8-18	3/4	.89	.220
48IFHD-6-4	3/8	1/4	5/8-18	3/4	1.03	.282
48IFHD-6-6	3/8	3/8	5/8-18	3/4	1.03	.282
48IFHD-8-4	1/2	1/4	3/4-18	29/32	1.07	.346
48IFHD-8-6	1/2	3/8	3/4-18	29/32	1.07	.407
48IFHD-8-8	1/2	1/2	3/4-18	29/32	1.26	.407
48IFHD-10-8	5/8	1/2	7/8-18	1-1/16	1.32	.533
48IFHD-12-12	3/4	3/4	1-1/16-16	1 1/4	1.38	.626



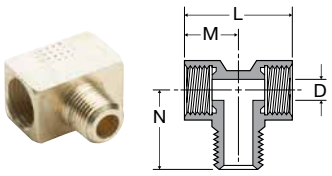
Union Tee 244IFHD

Ref. SAE 040401

Part No.	Tube Size	Straight Thread	L	M	N	Flow Dia. D
244IFHD-3	3/16	3/8-24	1.10	.55	.39	.125
244IFHD-4	1/4	7/16-24	1.13	.56	.42	.189
244IFHD-5	5/16	1/2-20	1.26	.63	.45	.220
244IFHD-6	3/8	5/8-18	1.48	.74	.56	.282
244IFHD-8*	1/2	3/4-18	1.76	.88	.67	.407

*Does not meet SAE or UL.

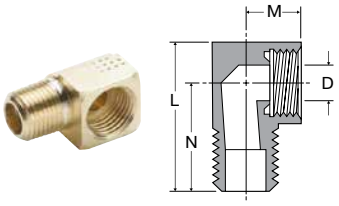
WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Male Branch Tee 245IFHD

Ref. SAE 040425

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
245IFHD-4-2	1/4	1/8	7/16-24	.85	.43	.64	.189
245IFHD-6-4	3/8	1/4	5/8-18	1.17	.58	.94	.282



Male Elbow 249IFHD–249IF

Ref. SAE 040202

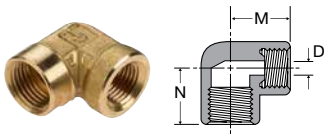
Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
249IFHD-2-2	1/8	1/8	5/16-28	.79	.27	.58	.078
249IFHD-3-2	3/16	1/8	3/8-24	.85	.27	.61	.125
249IFHD-4-2+	1/4	1/8	7/16-24	.92	.33	.65	.189
249IFHD-4-4	1/4	1/4	7/16-24	1.10	.28	.82	.189
249IFHD-5-4	5/16	1/4	1/2-20	1.16	.45	.86	.220
249IFHD-6-2+	3/8	1/8	5/8-18	1.13	.53	.76	.220
249IF-6-4†	3/8	1/4	5/8-18	1.26	.45	.92	.282
249IFHD-6-4	3/8	1/4	5/8-18	1.32	.53	.95	.282
249IFHD-6-6	3/8	3/8	5/8-18	1.32	.50	.94	.282
249IFHD-8-4+	1/2	1/4	3/4-18	1.48	.59	1.02	.407
249IF-8-6+	1/2	3/8	3/4-18	1.42	.53	.99	.407
249IFHD-8-8	1/2	1/2	3/4-18	1.67	.66	1.22	.407
249IFHD-10-6+	5/8	3/8	7/8-18	1.62	.67	1.09	.531
249IFHD-10-8+	5/8	1/2	7/8-18	1.82	.67	1.29	.533

† Light Duty Series
+ For these parts the pipe thread through hole is smaller than the through hole on the flare end.

Male Elbow 149IFHD

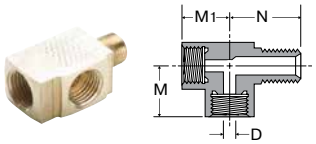
Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
149IFHD-8-6	1/2	3/8	3/4-18	1.47	0.65	1.03	0.407

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Female Elbow 150IFHD

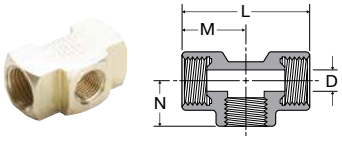
Part No.	Tube Size	Pipe Thread	Straight Thread	M	N	Flow Dia. D
150IFHD-3-2	3/16	1/8	3/8-24	0.5	0.49	0.125
150IFHD-4-2	1/4	1/8	7/16-24	0.53	0.53	0.189
150IFHD-5-2	5/16	1/8	1/2-20	0.59	0.6	0.22
150IFHD-6-4	3/8	1/4	5/8-18	0.67	0.67	0.282



Male Run Tee 251IFHD

Ref. SAE 040424

Part No.	Tube Size	Pipe Thread	Straight Thread	M	M1	N	Flow Dia. D
251IFHD-3-2	3/16	1/8	3/8-24	.39	.53	.72	.125
251IFHD-5-2	5/16	1/8	1/2-20	.45	.62	.85	.220
251IFHD-6-4	3/8	1/4	5/8-18	.56	.75	1.08	.282



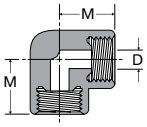
Female Branch Tee 252IFHD

Ref. SAE 040427

Part No.	Tube Size	Pipe Thread	Straight Thread	L	M	N	Flow Dia. D
252IFHD-5-2	5/16	1/8	1/2-20	1.26	.63	.45	.220
252IFHD-6-4	3/8	1/4	5/8-18	1.48	.74	.56	.282

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

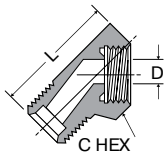




Union Elbow 155IFHD

Part No.	Tube Size	Straight Thread	M	Flow Dia. D
155IFHD-4	1/4	7/16-24	0.52	0.189





45° Elbow 259IFHD

Ref. SAE 040302

Part No.	Tube Size	Pipe Thread	Straight Thread	C Hex	L	Flow Dia. D
259IFHD-3-2	3/16	1/8	3/8-24	17/32	.88	.125
259IFHD-4-2	1/4	1/8	7/16-24	9/16	.94	.189
259IFHD-5-2	5/16	1/8	1/2-20	5/8	1.00	.220
259IFHD-5-4	5/16	1/4	1/2-20	5/8	1.16	.220
259IFHD-6-4*	3/8	1/4	5/8-18	13/16	1.34	.282
259IFHD-8-6	1/2	3/8	3/4-18	7/8	1.44	.407
259IFHD-10-8	5/8	1/2	7/8-18	1-1/16	1.75	.533

*Does not meet SAE or UL.

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

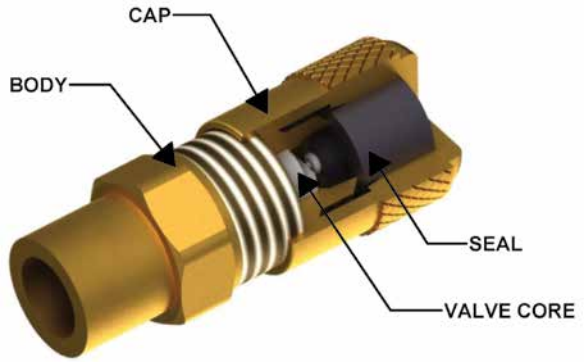


ACCESS VALVES

Parker's Access Valves are designed to offer convenient, low cost access ports for refrigeration service. Access valves may be installed in any position on either high or low side for quick testing, pressure checking, purging or charging.

Product Features:

- All brass construction
- 1/4" SAE male flare access ports
- Finger tight quick seal caps
- Access valves with pipe connections have internal ODS solder cups



Markets:

- Refrigeration
- Air Conditioning

Applications:

- Pressure Testing
- Purging
- Charging Refrigeration Lines

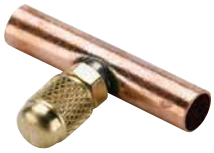
Specifications:

Pressure Range	Up to 500 PSI (34.3 bar)
Temperature Range	-20˚ to +220˚ F (-28.8° to +104.4° C)

Compatible Tubing:

- Copper

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Solder Tee AVTS

Part No.	Connection size
AVTS-4	1/4” O.D. Tube or 3/8” Solder Fitting/Swaged Tube
AVTS-6	3/8” O.D. Tube or 1/2” Solder Fitting/Swaged Tube
AVTS-8	1/2” O.D. Tube

Product comes with valve core loose and should be torqued after brazing to ARI 720 standard.



Male Connector AVU1

Part No.	Connection size
AVU1-2	1/8" Male Pipe or 1/4" O.D. Solder
AVU1-4	1/4" Male Pipe or 5/16" O.D. Solder

Product comes with valve core loose and should be torqued after brazing to ARI 720 standard.



Full Union AVU2

Part No.	Connection size
AVU2-4	1/4” O.D. Flare Tube With Forged Flare Nut



Access Valve Assembly AVUIFI

Part No.	Connection size
AVUIFI-4	7/16-20 SAE Straight thread O-Ring Port

Note: Standard o-ring is neoprene. Consult Brass Products Division for optional o-rings



Bulkhead Union AVU2BH

Part No.	Connection size
AVU2BH-4	1/4" Bulkhead Access X 1/4" SAE With Forged Nut



Forged Male Elbow AVE1

Part No.	Connection size
AVE1-2	1/8" Male Pipe or 1/4" O.D. Solder

Product comes with valve core loose and should be torqued after brazing to ARI 720 standard.



Bulkhead Solder Union AVUS3BH

Part No.	Connection size
AVUS3BH-4	1/4" Bulkhead Access X 3 Way ODS

Product comes with valve core loose and should be torqued after brazing to ARI 720 standard.

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Forged Male Run Tee AVT3

Part No.	Connection size
AVT3-2	1/8" Male Pipe or 1/4" O.D. Solder on Run x 1/4" Access on Run and Branch With One Core and Cap
AVT3-4	1/4" Male Pipe or 5/16" O.D. Solder on Run x 1/4" Access on Run and Branch With One Core and Cap

Product comes with valve core loose and should be torqued after brazing to ARI 720 standard.



Straight Solder Connector AVUS

Part No.	Connection size
AVUS-42	1/8" O.D. Tube or 1/4" Solder Fitting/Swaged Tube
AVUS-43	3/16" O.D. Tube or 1/4" Solder Fitting/Swaged Tube
AVUS-44	1/4" O.D. Tube or 3/8" Solder Fitting/Swaged Tube
AVUS-46	3/8" O.D. Tube or 1/2" Solder Fitting/Swaged Tube

Product comes with valve core loose and should be torqued after brazing to ARI 720 standard.



Forged Male Cross AVC1

Part No.	Connection size
AVC1-4	1/4" Male Pipe or 5/16" O.D. Solder x 1/4" Access on all Flare Ends With One Core and Cap

Product comes with valve core loose and should be torqued after brazing to ARI 720 standard.



3 Way Solder Connector AVUS3

Part No.	Connection size
AVUS3-40	For 3/16" O.D. Tube or 1/4" and 3/8" Solder Fitting/Swaged Tube

Product comes with valve core loose and should be torqued after brazing to ARI 720 standard.



Female Connector AVUR3

Part No.	Connection size
AVUR3-4	1/4" Female Flare with Copper Gasket



Swivel Connector AVUS4D

Part No.	Connection size
AVUS4D-4	1/4" Forged Female Flare Swivel Nut with Depressor



Forged Female Run Swivel Tee AVTS4

Part No.	Connection size
AVTS4-4	1/4" Female Flare Swivel x 1/4" Access on Both Run and Branch
AVTS4D-4	1/4" Female Flare Swivel on Run with Depressor x 1/4" Access on Both Run and Branch

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Forged Female Branch Tee AVTS6

Part No.	Connection size
AVTS6-4	1/4" Female Flare Swivel x 1/4" Access on Both Ends
AVTS6D-4	1/4" Female Flare Swivel on Branch with Depressor x 1/4" Access on Both Ends



Quick Seal Caps 640QSF

Part No.	Connection size
640QSF-4	1/4" SAE Seal Cap with Seal Gasket
640QSF-6	3/8" SAE Seal Cap with Seal Gasket



Quick Seal Cap with Core Remover 640QSFCR

Part No.	Connection size
640QSFCR-4	1/4" SAE Seal Cap Core Remover with internal Seal Gasket



Core Remover CR

Part No.	Connection size
CR-001	Standard Core Remover



Valve Cores VC

Part No.	Connection size
VC-001	Replacement Valve Cores For all 1/4" Access Valves



Refrigerant Adapter 88AC

Part No.	Connection size
88AC-8-2	1/8" male pipe to SAE J2197 Acme threaded male connector



Refrigerant Adapter 880AC

Part No.	Connection size
880AC-8-4	1/4" female SAE flare to SAE J2197 Acme threaded male connector

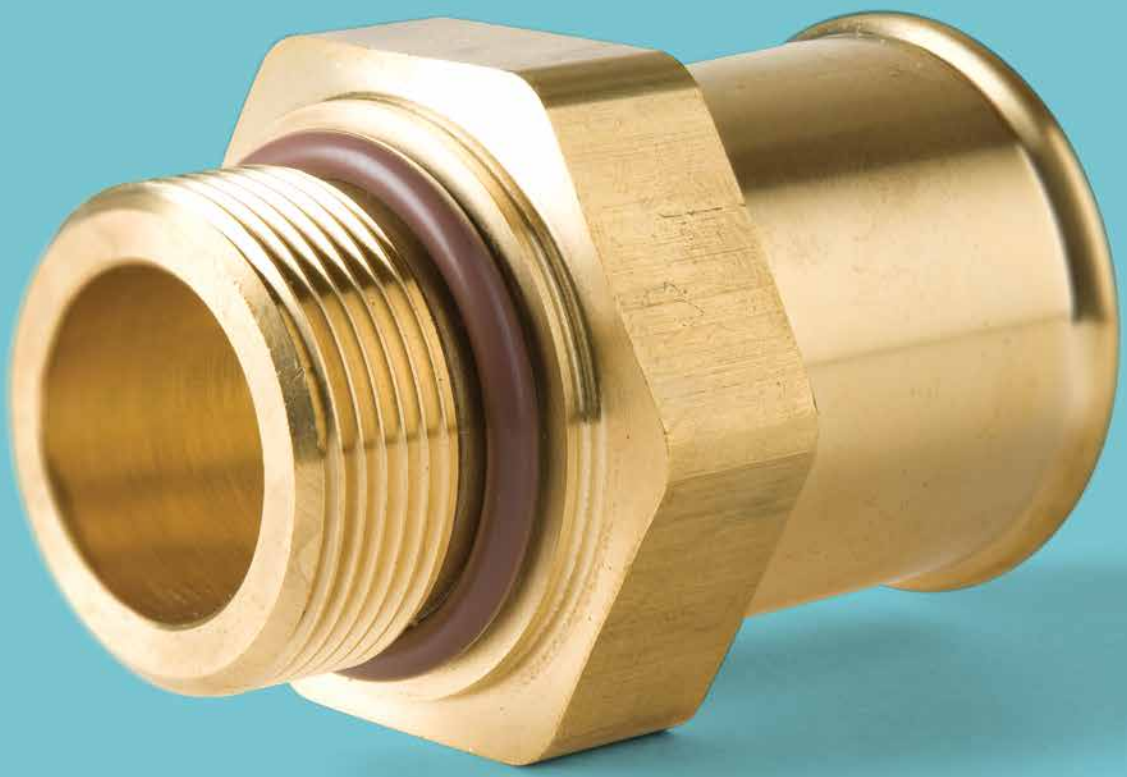


Refrigerant Adapter 881AC

Part No.	Connection size
881AC-8-4	1/4" SAE male flare to SAE J2197 Acme threaded female connector

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Notes



INDUSTRIAL
BARBED FITTINGS

Dubl-Barb® Fittings, Hose Barb Fittings, Pneumatic Hose Fittings

Parker



DUBL-BARB® FITTINGS

Parker's Dubl-Barb Fittings are an economical one piece, push-on brass barbed fitting that does not require any type of clamp. These fittings are a quick way to connect polyethylene tubing.

Product Features:

- Compact
- One piece
- No clamp required
- Good vibration resistance



Markets:

- Pneumatic
- Environmental control

Applications:

- Pneumatic Systems
- Climate Control
- Humidifiers
- Filters

Compatible Tubing:

- Polyethylene

Specifications:

Pressure Range:

tube size	psi	bar	tube size	psi	bar
5/32	150	10.3	3/8	150	10.3
1/4	150	10.3	1/2	100	6.8

Temperature Range:

tube size	temperature in FAHRENHEIT	temperature in CELSIUS
5/32	-65˚ to +90˚ F	-53.8˚ to +32.2˚ C
1/4	-65˚ to +90˚ F	-53.8˚ to +32.2˚ C
3/8	-65˚ to +90˚ F	-53.8˚ to +32.2˚ C
1/2	-65˚ to +75˚ F	-53.8˚ to +23.8˚ C

See Parker Legris Fit Kit on p. I12

Assembly Instructions

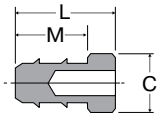
Cut tube squarely and simply push tube over the two barbs





WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

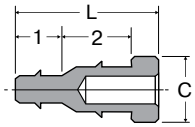




Plug 20

Part No.	Tube O.D.	Tube I.D.	C Dia.	L	M
20-4	1/4	.170	.32	.56	.41
20-6	3/8	.250	.390	.68	.44
20-8	1/2	.377	.577	.81	.56

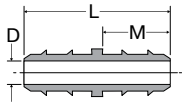




Plug Adapter 20

Part No.	tube O.D. 1	tube I.D. 1	tube O.D. 2	tube I.D. 2	c DIA.	I
20-4-5/32	5/32	.096	1/4	.170	.32	.65

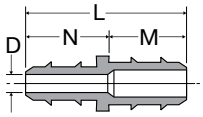




Union 22

Part No.	Tube O.D.	Tube I.D.	L	M	Flow Dia. D
22-5/32	5/32X5/32	.096X.096	.59	.28	.062
22-4	1/4X1/4	.170X.170	.84	.41	.120
22-6	3/8X3/8	.250X.250	.94	.44	.187
22-8	1/2X1/2	.375X.375	1.19	.56	.312



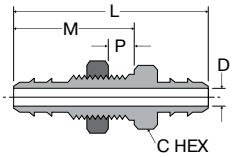


Union Reducer 22

Part No.	Tube O.D.	Tube I.D.	L	M	N	Flow Dia. D
22-4-5/32	1/4X5/32	.170X.096	.72	.41	.28	.062
22-4-6	1/4X3/8	.170X.250	.88	.44	.41	.120
22-4-8	1/4X1/2	.170X.375	1.06	.56	.41	.120
22-6-8	3/8X1/2	.250X.375	1.06	.56	.44	.187

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

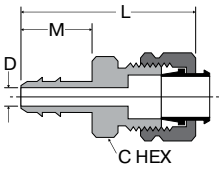




Bulkhead Union 22BH

Part No.	Tube O.D.	Tube I.D.	St. Thd.	C Hex	P Max.	L	M	Flow Dia. D	Blkhd Hole Dia.
22BH-4-4	1/4	.170	5/16-24	7/16	.219	1.38	.78	.120	5/16
22BH-6-6	3/8	.250	3/8-24	7/16	.375	1.63	1.00	.187	3/8

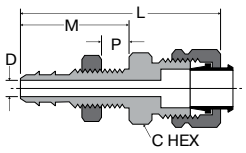




Union 22CA Tube to Compress-Align

Part No.	Tube O.D.	Tube I.D.	Ca Tube	C Hex	L	M	Flow Dia. D
22CA-4-4	1/4	.170	1/4	7/16	1.15	.41	.120

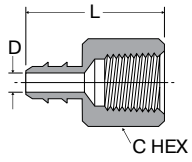




Bulkhead Union 22CABH Tube to Compress-Align

Part No.	Tube O.D.	Tube I.D.	Ca Tube	St. Thd.	C Hex	P Max	L	M	Flow Dia. D	Bkhd Hole Dia.
22CABH-4-4	1/4	.170	1/4	5/16-24	7/16	.219	1.53	.78	.120	5/16
22CABH-6-6	3/8	.250	3/8	3/8-24	9/16	.375	1.87	1.00	.187	3/8





Female Connector 26

Part No.	Tube O.D.	Tube I.D.	Pipe Thd	C Hex	L	Flow Dia. D
26-5/32-2	5/32	.096	1/8	1/2	.79	.062
26-4-2	1/4	.170	1/8	1/2	.91	.120
26-6-2	3/8	.250	1/8	1/2	.93	.187
26-6-4	3/8	.250	1/4	11/16	1.06	.187

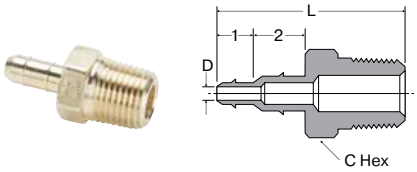
WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Male Connector 27

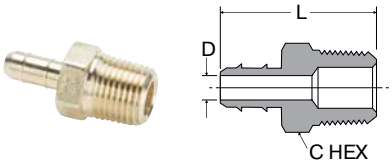
Part No.	Tube O.D.	Tube I.D.	Straight Thd	C Hex	L	Flow Dia. D
27-1*	1/8	.062	10-32	1/4	.61	.052
27-2*	1/4	.125	10-32	1/4	.74	.093

* For vinyl tubing only.



Barb-to-Pipe Adapter 28

Part No.	Tube O.D. 1	Tube I.D. 1	Tube O.D. 2	Tube I.D. 2	Pipe Thd.	C Hex	L	Flow Dia. D
28-4-5/32-2	5/32	.096	1/4	.170	1/8	7/16	1.07	.062



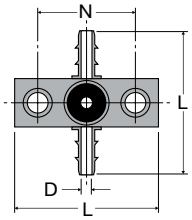
Male Connector 28

Part No.	Tube O.D.	Tube I.D.	Pipe Thd	C Hex	L	Flow Dia. D
28-5/32-2	5/32	.096	1/8	7/16	.84	.062
28-4-1	1/4	.170	1/16	3/8	.93	.120
28-4-2	1/4	.170	1/8	7/16	.97	.120
28-4-4	1/4	.170	1/4	9/16	1.09	.120
28-4-10X32*	1/4	.170	10-32	1/4	.71	.093
28-6-2	3/8	.250	1/8	7/16	1.00	.187
28-6-4	3/8	.250	1/4	9/16	1.13	.187
28-8-4	1/2	.375	1/4	9/16	1.25	.312
28-8-6	1/2	.375	3/8	11/16	1.28	.312
28-8-8	1/2	.375	1/2	7/8	1.44	.312

*Straight thread

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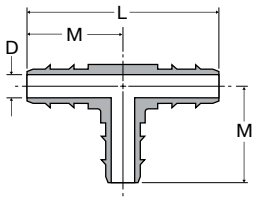




Adapter Tee 220

Part No.	Tube O.D.	Tube I.D.	Pipe Thd	L	N	Flow Dia. D
220-4-2	1/4	.170	1/8	1.50	1.00	.120

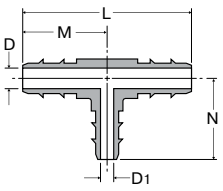




Union Tee 224

Part No.	Tube O.D.	Tube I.D.	L	M	Flow Dia. D
224-5/32	5/32	.096	1.00	.50	.062
224-4	1/4	.170	1.25	.63	.120
224-6	3/8	.250	1.38	.69	.187
224-8	1/2	.375	1.63	.81	.312



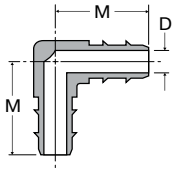


Union Tee 224 Combination Sizes

Part No.	Tube O.D.	Tube I.D.	L	M	N	Flow Dia. D	Flow Dia. D1
224-4-4-5/32	1/4X5/32	.170X.096	1.25	.63	.50	.120	.062
224-6-6-5/32	3/8X5/32	.250X.096	1.38	.69	.50	.187	.062
224-6-6-4	3/8X1/4	.250X.170	1.38	.69	.62	.187	.120
224-8-8-4	1/2X1/4	.375X.170	1.62	.81	.65	.312	.120
224-8-8-6	1/2X3/8	.375X.250	1.62	.81	.69	.312	.187

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

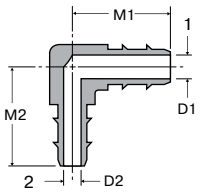




Union Elbow 225

Part No.	Tube O.D.	Tube I.D.	M	Flow Dia. D
225-5/32	5/32	.096	.50	.062
225-4-4	1/4	.170	.63	.120
225-6-6	3/8	.250	.63	.187
225-8-8	1/2	.375	.81	.312

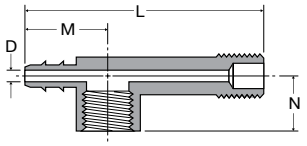




Union Elbow 225 Combination Size

Part No.	Tube O.D. 1	Tube O.D. 2	Tube I.D. 1	Tube I.D. 2	M1	M2	Flow Dia. D1	Flow Dia. D2
225-4-5/32	1/4	5/32	.170	.096	.63	.50	.120	.062

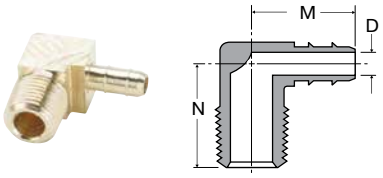




Gauge Tee 228

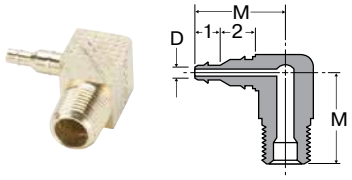
Part No.	Tube O.D.	Tube I.D.	Pipe Thd	L	M	N	Flow Dia. D
228-4-2	1/4	.170	1/8	1.91	.66	.44	.120

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



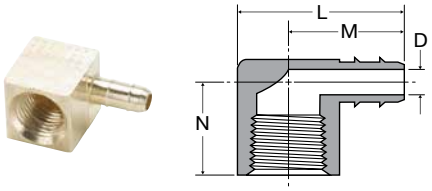
Male Elbow 229

Part No.	Tube O.D.	Tube I.D.	Pipe Thd	M	N	Flow Dia. D
229-5/32-2	5/32	.096	1/8	.56	.63	.062
229-4-1	1/4	.170	1/16	.62	.60	.120
229-4-2	1/4	.170	1/8	.69	.63	.120
229-4-4	1/4	.170	1/4	.72	.72	.120
229-6-2	3/8	.250	1/8	.69	.69	.187
229-6-4	3/8	.250	1/4	.75	.75	.187
229-8-4	1/2	.375	1/4	.94	.74	.312
229-8-6	1/2	.375	3/8	.94	.81	.312



90˚ Elbow Barb Adapter 229

Part No.	Tube O.D. 1	Tube I.D. 1	Tube O.D. 2	Tube I.D. 2	Pipe Thd	M	Flow Dia. D
229-4-5/32-2	5/32	.096	1/4	.170	1/8	.78	.062

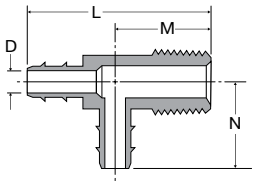


Female Elbow 230

Part No.	Tube O.D.	Tube I.D.	Pipe Thd	L	M	N	Flow Dia. D
230-4-2	1/4	.170	1/8	.91	.66	.44	.120
230-6-4	3/8	.250	1/4	1.12	.78	.63	.187

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

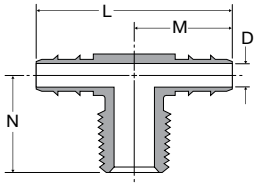




Male Run Tee 231

Part No.	Tube O.D.	Tube I.D.	Pipe Thd	L	M	N	Flow Dia. D
231-4-2	1/4	.170	1/8	1.28	.66	.69	.120
231-6-2	3/8	.250	1/8	1.38	.69	.69	.187
231-6-4	3/8	.250	1/4	1.44	.75	.75	.187

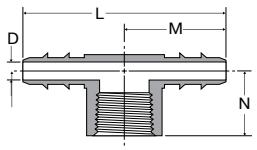




Male Branch Tee 232

Part No.	Tube O.D.	Tube I.D.	Pipe Thd	L	M	N	Flow Dia. D
232-4-1	1/4	.170	1/16	1.33	.66	.65	.120
232-4-2	1/4	.170	1/8	1.38	.69	.66	.120
232-6-2	3/8	.250	1/8	1.38	.69	.69	.187
232-6-4	3/8	.250	1/4	1.50	.75	.75	.187

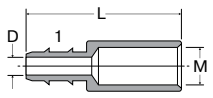




Female Branch Tee 237

Part No.	Tube O.D.	Tube I.D.	Pipe Thd	L	M	N	Flow Dia. D
237-5/32-2	5/32	.096	1/8	1.06	.53	.44	.062
237-4-2	1/4	.170	1/8	1.34	.67	.49	.120





Solder Connector 238

Part No.	Tube O.D. 1	Tube I.D. 1	L	M	Flow Dia. D
238-4-4	1/4	.170	.91	.25	.120

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

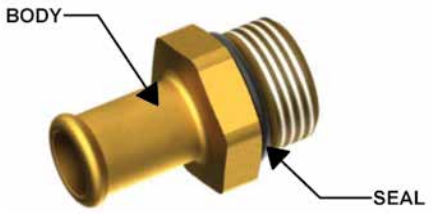


HOSE BARB FITTINGS

Parker's Hose Barb Fittings are an economical choice for general purpose fluid handling and pneumatics. Manufactured in both regular hose barb and beaded hose barb styles. Fittings are intended for use with 97HC hose clamps, similar type clamp or a crimped ferrule.

Product Features:

- All brass construction
- Fluorocarbon O-rings
- NPTF, SAE straight thread, metric thread ends
- Reusable
- Clamp required
- Pre-applied Vibra-Seal thread sealant available



Compatible Tubing:

- Rubber Hose
- GPH Hose

Markets:

- Industrial
- Construction
- Heavy duty truck
- Mobile

Applications:

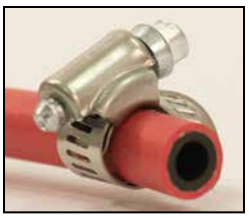
- Air Lines
- Water Line
- Cooling Lines

Specifications:

Pressure Range	Up to 150 PSI (10.3 bar)
Temperature Range	-40° to +160° F (-40° to +71.1° C)

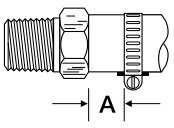
Assembly Instructions

1. Cut hose cleanly and squarely to length.
2. Slide clamp on hose.
3. Lubricate hose. Push hose on fitting until bottomed against stop ring or hex.
4. Position hose clamp as shown and secure with a screwdriver or wrench. Maintain "A" dimension for proper clamp positioning.





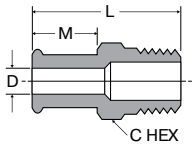




Hose Size	Hose Clamp	A
3/16	97 HC-3	1/4
1/4	97 HC-3	1/4
5/16	97 HC-6	1/4
3/8	97 HC-6	1/8
1/2	97 HC-8	1/8
5/8	97 HC-12	1/8
3/4	97 HC-12	1/8

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

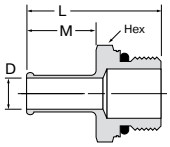




Beaded Hose Barb to Male Pipe 68HB

Part No.	I.D. Hose Size	Pipe Thd	C Hex	L	M	Flow Dia. D
68HB-6-6	3/8	3/8	11/16	1.53	.78	.281
68HB-8-4	1/2	1/4	5/8	1.56	.78	.375
68HB-8-6	1/2	3/8	11/16	1.53	.78	.406
68HB-8-8	1/2	1/2	7/8	1.84	.78	.406
68HB-10-6	5/8	3/8	3/4	1.62	.88	.501
68HB-10-8	5/8	1/2	7/8	1.92	.88	.501
68HB-12-8	3/4	1/2	7/8	1.98	.88	.564
68HB-12-12	3/4	3/4	1 1/16	2.04	.97	.625
68HB-16-12	1	3/4	1 1/8	2.12	1.00	.750
68HB-16-16	1	1	1.38	2.31	1.00	.812



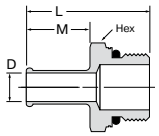


Beaded Hose Barb to SAE Straight Thread 685HB

Part No.	I.D. Hose Size	Straight Thd	C Hex	L	M	Flow Dia. D
685HB-4-4	1/4	7/16-20	9/16	1.40	.78	.18
685HB-6-4	3/8	7/16-20	9/16	1.39	.78	.18
685HB-8-8	1/2	3/4-16	7/8	1.48	.78	.40
685HB-10-8	5/8	3/4-16	7/8	1.56	.78	.40
685HB-12-8	3/4	3/4-16	7/8	1.75	.97	.40
685HB-12-12	3/4	1 1/16-12	1 1/4	1.82	.97	.62
685HB-16-8	1	3/4-16	1 1/8	1.79	.97	.40
685HB-16-12	1	1 1/16-12	1 1/4	1.99	.97	.62

Note: Fluorocarbon o-ring is standard

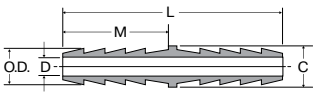
⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Hose Barb to Metric Adaptor 68HB-X-MIX

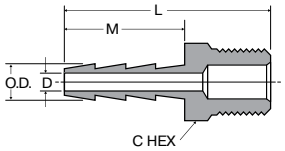
Part No.	I.D. Hose Size	Metric Thd	Hex	L	M	D
68HB-6-MI12	3/8	M12 X 1.5	11/16	1.50	.78	.24
68HB-6-MI14	3/8	M14 1.5	3/4	1.51	.78	.29
68HB-8-MI12	1/2	M12 X 1.5	11/16	1.50	.78	.24

Note: Fluorocarbon o-ring is standard

Hose Mender 122HBL

Part No.	I.D. Hose Size	C Dia.	L	M	O.D.	Flow Dia. D
122HB-3	3/16	5/16	1.44	.69	.227	.125
122HBL-4	1/4	3/8	2.00	.97	.290	.187
122HBL-5	5/16	7/16	2.00	.97	.353	.250
122HBL-6	3/8	1/2	2.00	.97	.415	.281
122HBL-8	1/2	5/8	2.00	.97	.530	.375
122HBL-12	3/4	7/8	2.00	.97	.790	.562

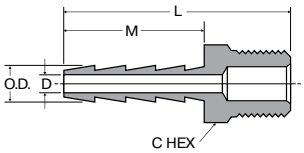



Hose Barb to Male Pipe 125HB

Part No.	I.D. Hose Size	Pipe Thd	C Hex	L	M	O.D.	Flow Dia. D
125HB-2-2	1/8	1/8	7/16	1.07	.50	.185	.093
125HB-3-2	3/16	1/8	7/16	1.25	.69	.227	.125
125HB-3-4	3/16	1/4	9/16	1.44	.69	.227	.125

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

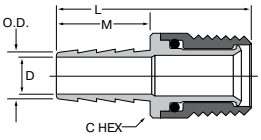




Hose Barb to Male Pipe 125HBL

Part No.	I.D. Hose Size	Pipe Thd	C Hex	L	M	O.D.	Flow Dia. D
125HBL-4-2	1/4	1/8	7/16	1.54	.97	.290	.187
125HBL-4-4	1/4	1/4	9/16	1.72	.97	.290	.187
125HBL-4-6	1/4	3/8	11/16	1.77	.97	.290	.187
125HBL-5-2	5/16	1/8	7/16	1.54	.97	.353	.250
125HBL-5-4	5/16	1/4	9/16	1.72	.97	.353	.250
125HBL-5-6	5/16	3/8	11/16	1.77	.97	.353	.250
125HBL-6-2	3/8	1/8	7/16	1.54	.97	.415	.281
125HBL-6-4	3/8	1/4	9/16	1.72	.97	.415	.281
125HBL-6-6	3/8	3/8	11/16	1.77	.97	.415	.281
125HBL-6-8	3/8	1/2	7/8	1.97	.97	.415	.281
125HBL-8-4	1/2	1/4	9/16	1.72	.97	.530	.375
125HBL-8-6	1/2	3/8	11/16	1.77	.97	.530	.375
125HBL-8-8	1/2	1/2	7/8	1.97	.97	.530	.375
125HBL-8-12	1/2	3/4	1-1/16	1.98	.97	.530	.375
125HBL-10-6	5/8	3/8	11/16	1.77	.97	.645	.468
125HBL-10-8	5/8	1/2	7/8	1.97	.97	.645	.468
125HBL-10-12	5/8	3/4	1-1/16	1.98	.97	.645	.468
125HBL-12-8	3/4	1/2	7/8	1.97	.97	.790	.562
125HBL-12-12	3/4	3/4	1-1/16	1.98	.97	.790	.562
125HBL-16-12	1	3/4	1-1/16	2.18	1.17	1.02	.750
125HBL-16-16	1	1	1-3/8	2.36	1.17	1.02	.875



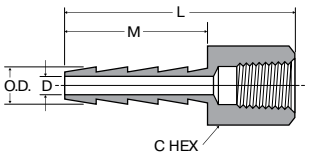


Male Swivel Hose Barb 125HBLSV

Part No.	I.D. Hose Size	Pipe Thd	C Hex	L	M	O.D.	Flow Dia. D
125HBLSV-4-4	1/4	1/4	9/16	1.73	.97	.290	.187
125HBLSV-6-4	3/8	1/4	9/16	1.73	.97	.415	.212
125HBLSV-6-6	3/8	3/8	11/16	1.80	.97	.415	.280
125HBLSV-8-8	1/2	1/2	7/8	2.01	.97	.530	.375

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

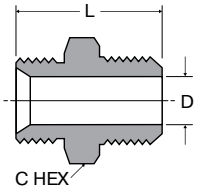




Hose Barb to Female Pipe 126HBL

Part No.	I.D. Hose Size	Pipe Thd	C Hex	L	M	O.D.	Flow Dia. D
126HBL-4-2	1/4	1/8	1/2	1.47	.97	.290	.187
126HBL-4-4	1/4	1/4	11/16	1.66	.97	.290	.187
126HBL-5-4	5/16	1/4	11/16	1.58	.97	.353	.250
126HBL-6-2	3/8	1/8	1/2	1.47	.97	.415	.281
126HBL-6-4	3/8	1/4	11/16	1.66	.97	.415	.281
126HBL-6-6	3/8	3/8	13/16	1.69	.97	.415	.281
126HBL-8-6	1/2	3/8	13/16	1.69	.97	.530	.375
126HBL-8-8	1/2	1/2	1	1.73	.97	.530	.375
126HBL-12-12	3/4	3/4	1-1/4	1.92	.97	.790	.562



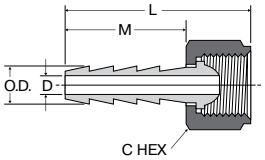


Ball-End Joint Adapter to Male Pipe 127HB

For use with 128HBLSV

Part No.	Male NPSM Thd	Male NPT Thd	C Hex	L	Flow Dia. D
127HB-4-2	1/4	1/8	9/16	.91	.219
127HB-4-4	1/4	1/4	9/16	1.10	.281
127HB-6-4	3/8	1/4	11/16	1.10	.312
127HB-6-6	3/8	3/8	11/16	1.15	.406
127HB-8-6	1/2	3/8	7/8	1.25	.406
127HB-8-8	1/2	1/2	7/8	1.50	.531

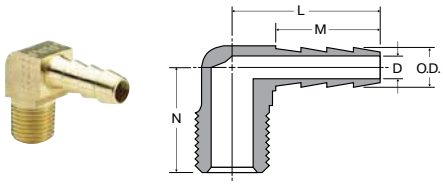




Hose Barb to Swivel Female Ball-End 128HBLSV

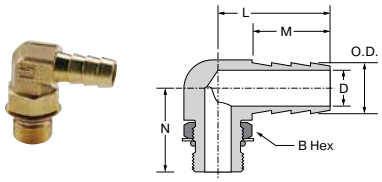
Part No.	I.D. Hose Size	Female NPSM Thd	C Hex	L	M	O.D.	Flow Dia. D
128HBLSV-4-4	1/4	1/4	5/8	1.50	.97	.290	.187
128HBLSV-5-4	5/16	1/4	5/8	1.50	.97	.353	.250
128HBLSV-6-4	3/8	1/4	5/8	1.63	.97	.415	.250
128HBLSV-6-6	3/8	3/8	3/4	1.50	.97	.415	.281
128HBLSV-8-8	1/2	1/2	29/32	1.52	.97	.530	.375

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Hose Barb 90° Elbow to Male Pipe 129HB

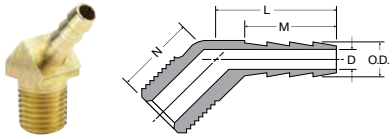
Part No.	I.D. Hose Size	Pipe Thd	L	M	N	O.D.	Flow Dia. D
129HB-3-2	3/16	1/8	.97	.69	.66	.227	.173
129HB-4-2	1/4	1/8	1.04	.76	.66	.290	.187
129HB-4-4	1/4	1/4	1.06	.76	.82	.290	.187
129HB-4-6	1/4	3/8	1.19	.76	.84	.290	.187
129HB-5-2	5/16	1/8	1.06	.76	.66	.353	.234
129HB-5-4	5/16	1/4	1.12	.76	.84	.353	.234
129HB-5-6	5/16	3/8	1.19	.76	.84	.353	.234
129HB-6-2	3/8	1/8	1.32	.97	.75	.415	.219
129HB-6-4	3/8	1/4	1.32	.97	.94	.415	.281
129HB-6-6	3/8	3/8	1.50	.97	1.06	.415	.281
129HB-6-8	3/8	1/2	1.52	.97	1.25	.415	.281
129HB-8-4	1/2	1/4	1.53	.97	1.06	.530	.375
129HB-8-6	1/2	3/8	1.53	.97	1.06	.530	.375
129HB-8-8	1/2	1/2	1.53	.97	1.25	.530	.375
129HB-12-12	3/4	3/4	1.33	.79	1.27	.790	.562



Hose Barb Elbow to SAE Straight Thread 1295HB

Part No.	I.D. Hose Size	Straight Thd	B Hex	L	M	N	O.D.	Flow Dia. D
1295HB-6-6	3/8	9/16-18	11/16	1.10	.76	1.10	.42	.280

Note: Fluorocarbon o-ring is standard

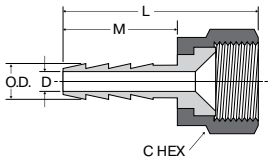


Hose Barb 45° Elbow to Male Pipe 139HB

Part No.	I.D. Hose Size	Pipe Thd	L	M	N	O.D.	Flow Dia. D
139HB-4-2	1/4	1/8	.91	.76	.68	.290	.187
139HB-4-4	1/4	1/4	1.00	.76	.68	.290	.187
139HB-6-4	3/8	1/4	1.00	.76	.68	.415	.281

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

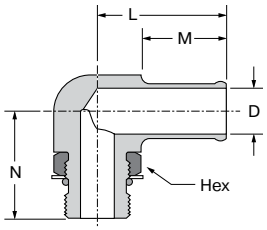




Hose Barb to Swivel 45˚ Female Flare 146HBLFSV

Part No.	I.D. Hose Size	Straight Thd	C Hex	L	M	O.D.	Flow Dia. D
146HBLFSV-4-4	1/4	7/16-20	9/16	1.55	.97	.290	.187
146HBLFSV-4-6	1/4	5/8-18	3/4	1.72	.97	.290	.187
146HBLFSV-6-6	3/8	5/8-18	3/4	1.72	.97	.415	.281



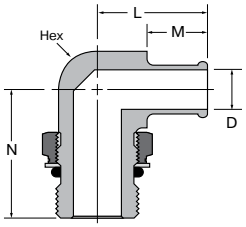


Beaded Hose Barb Elbow to SAE Straight Thread 1695HB

Part No.	Hose Size	Straight Thd	Hex	L	M	N	D
1695HB-6-4	3/8	7/16-20	9/16	1.09	.78	1.10	.18
1695HB-8-6	1/2	9/16-18	9/16	1.10	.78	1.11	.30
1695HB-8-8	1/2	3/4-16	7/8	1.28	.78	1.42	.40
1695HB-10-8	5/8	3/4-16	7/8	1.47	.88	1.47	.40
1695HB-10-10	5/8	7/8-14	1	1.41	.88	1.60	.50
1695HB-12-8	3/4	3/4-16	7/8	1.47	.97	1.47	.40
1695HB-12-10	3/4	7/8-14	1	1.60	.97	1.62	.50
1695HB-12-12	3/4	1 1/16-12	1	1.60	.97	1.64	.62
1695HB-16-12	1	1 1/16-12	1 1/4	1.60	.97	1.75	.60

Note: Fluorocarbon o-ring is standard





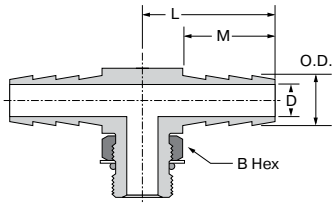
Beaded Elbow to Metric Adaptor 169HB-X-MIX

Part No.	Hose Size	Metric Thd	Hex	L	M	N	D
169HB-10-MI27	5/8	M27 X 2.0	7/8	1.41	.78	1.63	.50
169HB-16-MI27	1	M27 X 2.0	1	1.67	.97	1.68	.71
169HB-16-MI33	1	M33 X 2.0	1 5/16	1.75	.97	1.90	.84

Note: Fluorocarbon o-ring is standard

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



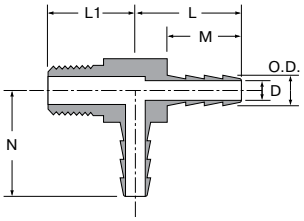


Hose Barb Tee to SAE Straight Thread 1725HB

Part No.	I.D. Hose Size	Straight Thd	B Hex	L	M	O.D.	Flow Dia. D
1725HB-6-6	3/8	9/16-18	11/16	1.10	.76	.420	.280

Note: Fluorocarbon o-ring is standard

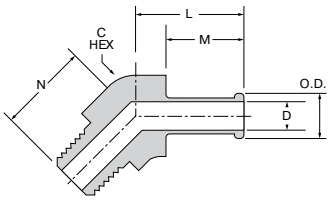




Hose Barb Tee to Male Pipe 171HB

Part No.	I.D. Hose Size	Pipe Thd	L	L1	M	N	O.D.	Flow Dia. D
171HB-4-4	1/4	1/4	1.10	.85	.76	1.10	.290	.187



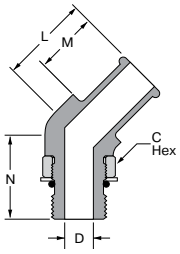


Beaded Hose Barb 45° Elbow Tube to Male Pipe 179HB

Part No.	I.D. Hose Size	NPTF Thd	C Hex	L	M	N	O.D.	Flow Dia. D
179HB-6-4	3/8	1/4-18	.75	1.09	.78	.93	.45	.28
179HB-6-6	3/8	3/8-18	.75	1.09	.78	.93	.45	.28
179HB-10-8	5/8	1/2-14	.81	1.19	.78	1.13	.70	.50
179HB-12-8	3/4	1/2-14	.81	1.19	.78	1.13	.83	.56

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



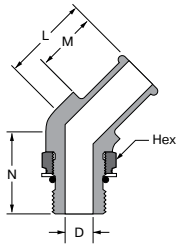


Beaded Hose Barb 45˚ Elbow Tube to Straight Thread 1795HB

Part No.	I.D. Hose Size	Straight Thd	C Hex	L	M	N	Flow Dia. D
1795HB-8-8	1/2	3/4-16	7/8	1.12	.78	1.16	.400
1795HB-10-8	5/8	3/4-16	7/8	1.22	.88	1.16	.398
1795HB-12-8	3/4	3/4-16	7/8	1.22	.88	1.16	.398
1795HB-12-12	3/4	1 1/16-12	1 1/4	1.35	.97	1.65	.620
1795HB-16-12	1	1 1/16-12	1 1/4	1.38	.97	1.47	.620

Note: Fluorocarbon o-ring is standard



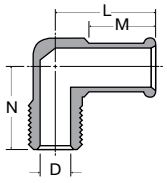


Beaded Hose Barb 45˚ Elbow to Metric Thread 179HB-X-MIX

Part No.	Hose Size	Metric Thd	Hex	L	M	N	D
179HB-12-MI18	3/4	M18 X 1.5	13/16	1.15	.78	1.16	.44
179HB-16-MI27	1	M27 X 2.0	1 1/16	1.51	.97	1.71	.71

Note: Fluorocarbon o-ring is standard



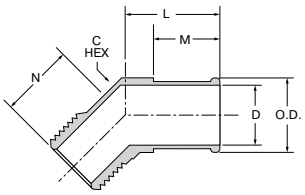


Beaded Hose Barb 90˚ Elbow Tube to Male Pipe 269HB

Part No.	I.D. Hose Size	Pipe Thd	L	M	N	Flow Dia. D
269HB-6-6	3/8	3/8	1.19	.78	.88	.281
269HB-8-4	1/2	1/4	1.16	.78	.99	.310
269HB-8-6	1/2	3/8	1.16	.78	1.08	.406
269HB-8-8	1/2	1/2	1.28	.78	1.25	.406
269HB-10-4	5/8	1/4	1.13	.78	.99	.312
269HB-10-6	5/8	3/8	1.16	.78	.99	.406
269HB-10-8	5/8	1/2	1.28	.78	1.25	.501
269HB-12-8	3/4	1/2	1.28	.78	1.25	.563
269HB-12-12	3/4	3/4	1.33	.78	1.27	.625

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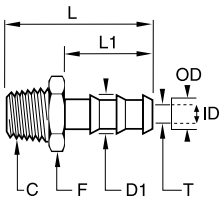




Beaded Hose Barb 45˚ Elbow Tube to Male Pipe 279HB

Part No.	I.D. Hose Size	NPTF Thd	C Hex	L	M	N	O.D.	Flow Dia. D
279HB-16-12	1	3/4-14	1.12	1.38	.97	1.13	1.06	.720



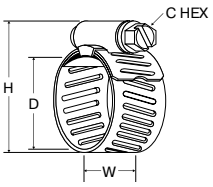


0123 Barbed Adapter for Rubber Hose BSPT

Part No.	D (mm)	C BSPT	D1 (mm)	F (mm)	L (mm)	L1 (mm)	T Min (mm)	Wt. Kg
0123 04 10	4	R1/8	6	10	34	22.5	3.3	.008
0123 06 10	6	R1/8	8	10	34	22.5	5	.009
0123 07 10	7	R1/8	9	10	34	22.5	5	.009
0123 07 13	7	R1/4	9	14	38.5	22.5	6	.018
0123 07 17	7	R3/8	9	17	39	22.5	6	.023
0123 10 10	10	R1/8	12.2	13	34	22.5	5	.014
0123 10 13	10	R1/4	12.2	14	38.5	22.5	7	.021
0123 10 17	10	R3/8	12.2	17	39	22.5	9.5	.023
0123 12 17	12	R3/8	14	17	46	29.5	11	.026
0123 13 13	13	R1/4	15	17	45.5	29.5	7	.027
0123 13 17	13	R3/8	15	17	46	29.5	11	.027
0123 13 21	13	R1/2	15	22	50.5	29.5	12	.047
0123 16 17	16	R3/8	18.5	19	54.5	38	11	.040
0123 16 21	16	R1/2	18.5	22	59	38	14	.056
0123 16 27	16	R3/4	18.5	27	62	38	15	.082
0123 19 17	19	R3/8	21.5	22	54.5	38	11	.046
0123 19 21	19	R1/2	21.5	22	59	38	14	.058
0123 19 27	19	R3/4	21.5	27	62	38	18	.083
0123 25 27	25	R3/4	26.7	27	62	38	18	.083
0123 25 34	25	R1	27	36	65	38	24	.124
0123 32 34	32	R1	34.5	36	70	43	24	.144

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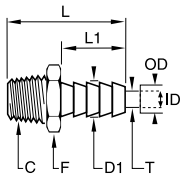


Stainless Steel Worm Drive Clamp 97HC

Part No.	D Max.	D Min.	C Hex	H Max.	W
97HC-3	.62	.25	.25	1.00	.31
97HC-6	.87	.38	.31	1.40	.50
97HC-8	1.00	.44	.31	1.53	.50
97HC-12	1.25	.50	.31	1.80	.50

Drive screw is plated steel



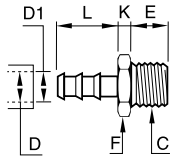


0136 Barbed Adapter for Nylon Tube BSPT

Part No.	d (mm)	c BSPT	d1 (mm)	f (mm)	l (mm)	L1 (mm)	T Min (mm)	Wt kg
0136 06 10	6	R1/8	6.4	10	26.5	15	4	.007
0136 06 13	6	R1/4	6.4	14	31	15	4	.015
0136 06 17	6	R3/8	6.4	17	31.5	15	4	.020
0136 08 13	8	R1/4	8.4	14	31	15	6	.016
0136 08 17	8	R3/8	8.4	17	31.5	15	6	.020
0136 08 21	8	R1/2	8.4	22	36	15	6	.039
0136 10 13	10	R1/4	10.7	14	36	20	7	.019
0136 10 17	10	R3/8	10.7	17	36.5	20	8	.023
0136 10 21	10	R1/2	10.7	22	41	20	8	.040
0136 12 13	12	R1/4	12.7	14	36	20	7	.019
0136 12 17	12	R3/8	12.7	17	36.5	20	10	.023
0136 12 21	12	R1/2	12.7	22	41	20	10	.042
0136 12 27	12	R3/4	12.7	27	44	20	10	.072
0136 13 17	13	R3/8	13.7	17	36.5	20	11	.023
0136 13 21	13	R1/2	13.7	22	41	20	11	.041
0136 13 27	13	R3/4	13.7	27	44	20	11	.071

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

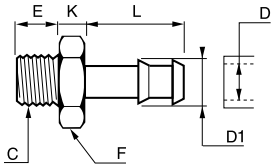




0191 Nickel Plated Hose to Male BSPP

Part No.	D (mm)	C BSPP	D1 (mm)	E (mm)	F (mm)	K (mm)	L (mm)	Wt. kg
0191 04 13	4	G1/4	6	9.5	17	5	22.5	.019
0191 07 13	7	G1/4	9	9.5	17	5	22.5	.021
0191 07 21	7	G1/2	9	11	27	7	29.5	.065
0191 10 13	10	G1/4	12.2	9.5	17	5	22.5	.021
0191 10 21	10	G1/2	12.2	11	27	7	29.5	.060
0191 13 13	13	G1/4	15.2	9.5	17	5	22.5	.023
0191 13 21	13	G1/2	15.2	11	27	7	29.5	.058
0191 16 21	16	G1/2	18.5	11	27	7	36.5	.069





0931 Nickel Plated Hose to Male BSPP

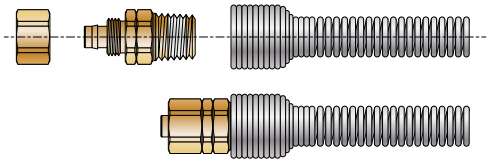
Part No.	D (mm)	C BSPP	D1 (mm)	E (mm)	F (mm)	K (mm)	L (mm)	wt. kg
0931 06 10	6	G1/8	7	6	12	4	20	0.008
0931 06 13	6	G1/4	7	8	14	5	20	0.013
0931 07 10	7	G1/8	8	6	12	4	20	0.009
0931 07 13	7	G1/4	8	8	14	5	20	0.017
0931 07 17	7	G3/8	8	9	19	5	20	0.022
0931 08 10	8	G1/8	9	6	12	4	20	0.009
0931 08 13	8	G1/4	9	8	14	5	20	0.014
0931 08 17	8	G3/8	9	9	19	5	20	0.022
0931 10 13	10	G1/4	12	8	14	5	20	0.016
0931 10 17	10	G3/8	12	9	19	5	20	0.023
0931 10 21	10	G1/2	12	10	22	6	22	0.032
0931 15 17	15	G3/8	17	9	19	6	24	0.030
0931 15 21	15	G1/2	17	10	22	6	24	0.036
0931 18 21	18	G1/2	20	10	22	6	24	0.043

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PNEUMATIC HOSE FITTINGS

Parker's Pneumatic Hose Fittings are manufactured from heavy duty brass for dependable, leak-free usage.



Product Features:

- All Brass Construction

Markets:

- Industrial Pneumatics
- Industrial Automation
- Construction & Carpentry

Applications:

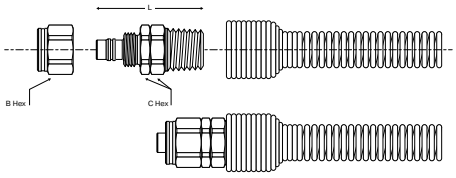
- Air Hose
- Blow Guns
- Pneumatic Assembly Tools
- Construction & carpentry tools
- Manufacturing air drops

Specifications:

Pressure Range	Dependent on hose end connection
Temperature Range	Dependent on hose end connection

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



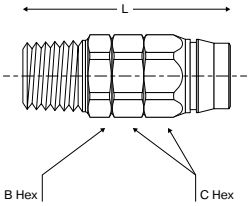


Field Attachable Fittings (Nylon Hose)

Part No.	Thd Size (NPT)	Hose Size (in)	B Hex (in)	C Hex (in)	L (in)
01200	1/8	1/8	7/16	7/16	1.31
01300	1/4	3/16	9/16	9/16	1.31
01400-XX	1/4	1/4	9/16	9/16	1.37
01500	1/4	5/16	9/16	5/8	1.56
01640	1/4	3/8	9/16	11/16	1.48
01600	3/8	3/8	11/16	11/16	1.53
01700	1/2	1/2	15/16	15/16	1.93
01802*	3/4	3/4	1 1/4	1 1/4	2.98

Includes Nut & Spring Guard
*Spring Guard Not Required





Field Attachable Fittings (Polyurethane Hose)

Part No.	Thd Size (NPT)	Hose Size (in)	B Hex (in)	C Hex (in)	L (in)
06167*	1/4	3/16	9/16	9/16	1.43
07244S**	1/4	1/4	9/16	9/16	4.97
06244S	1/4	1/4	9/16	9/16	1.60
06254S	1/4	5/16	5/8	9/16	1.74
06256S	3/8	5/16	5/8	5/8	1.65
06264S	1/4	3/8	3/4	9/16	1.88
06266S	3/8	3/8	3/4	11/16	1.93
06172	1/2	1/2	1	7/8	2.23

* Compression Fitting (includes fitting, nut ferrule, & insert)
** For use on XX only (includes spring guard)

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Notes



INDUSTRIAL ADAPTERS

Pipe Fittings, Metric Adapters, Nickel Plated Metric Adapters, ISO Port Adapters, Garden Hose Fittings

Parker



PIPE FITTINGS

Parker's Pipe Fittings meet all functional requirements of SAE J530 and SAE J531. All threads on the pipe fittings are made to dryseal standards.

Product Features:

- All brass construction
- Meets functional requirements of SAE J530 and SAE J531
- Threads made to dryseal standards
- Both forgings and extrusions available
- Pre-applied Vibra-Seal thread sealant available

Markets:

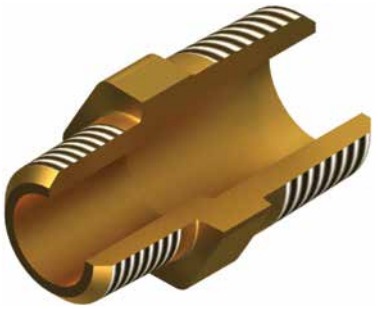
- Industrial
- Construction
- Heavy duty truck
- Mobile
- Factory/process automation

Applications:

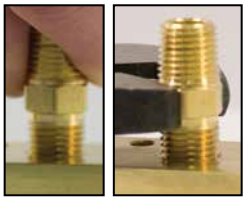
- Air Lines
- Water Line
- Cooling Lines

Specifications:

Pressure Range	Up to 1000 PSI (68.9 bar)
Temperature Range	-65˚ to +250˚ F (-53.9° to +121.1° C)



Assembly Instructions



Straight Fittings

1. Hand tighten external thread into internal thread
2. Tighten an additional 2 turns with a wrench up to 1/2" male pipe thread.
3. Above 1/2" 1 1/2 to 2 1/2 turns.

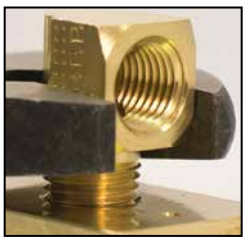


Elbow or Tee Fittings

1. Hand tighten external thread into internal thread
2. Tighten an additional 1 to 1 1/2 turns with a wrench
3. Tighten fitting, clockwise to align with tubing. (Never counter clockwise)

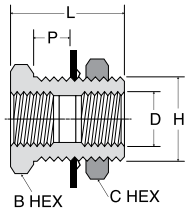
Note: To minimize the possibility of a leaking threaded joint after assembling Male to female pipe threads, neither end should be backed out (loosened) Once the assembly has been made.





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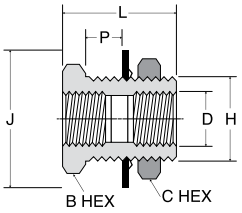


Bulkhead 207ACBH

Part No.	Female Pipe Thread	Straight Thread	Max . Bulk Head P	B Hex	C Hex	L	Blkhd Hole Dia. H	Flow Dia. D
207ACBH-2	1/8	5/8-18	.89	7/8	15/16	1.50	5/8	.339
207ACBHS-2	1/8	5/8-18	.35	7/8	15/16	.96	5/8	.339
207ACBH-4	1/4	3/4-16	.81	1	1-1/8	1.50	3/4	.441
207ACBHS-4	1/4	3/4-16	.26	1	1	.94	3/4	.441
207ACBH-6	3/8	1-14	.62	1-1/8	1-1/4	1.31	1	.571
207ACBH-8	1/2	1-1/8-14	.75	1-1/4	1-3/8	1.50	1-1/8	.703
207ACBH-12	3/4	1-5/16-12	.65	1-1/2	1-1/2	1.50	1-5/16	.906
207ACBH-16*	1	1-5/8-14	1.00	2	2	1.68	1-5/8	1.140

*Lock Washer not Available





Sealed Bulkhead 207ACBH-S

Part No.	Feamle Pipe Thread	Straight Thread	Max. Bulk Head P	B Hex	C Hex	J	L	Blkhd Hole Dia. H	Flow Dia. D
207ACBH-2-S	1/8	5/8-18	.84	7/8	15/16	1.19	1.50	.656	.339
207ACBHS-2-S	1/8	5/8-18	.30	7/8	15/16	1.19	.96	.656	.339
207ACBH-4-S	1/4	3/4-16	.75	1	1-1/8	1.31	1.50	.781	.441
207ACBHS-4-S	1/4	3/4-16	.20	1	1	1.31	.94	.781	.441
207ACBH-6-S	3/8	1-14	.56	1-1/8	1-1/4	1.75	1.31	1.031	.571

Supplied with NEMA 6 rated sealing washer.

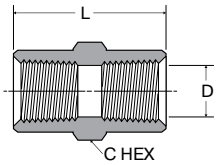


Sealing Washer Kit (10 pcs)

Part No.	Inner Dia.	Outer Dia.
207ACBH-WSHR-2	.625	1.19
207ACBH-WSHR-4	.75	1.31
207ACBH-WSHR-6	1.00	1.75

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

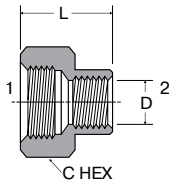




Coupling 207P

Part No.	Female Pipe Thread	C Hex	L	Flow Dia. D
207P-2	1/8	9/16	.75	.339
207P-4	1/4	3/4	1.12	.441
207P-6	3/8	7/8	1.12	.571
207P-8	1/2	1-1/16	1.50	.703
207P-12	3/4	1-3/8	1.53	.906

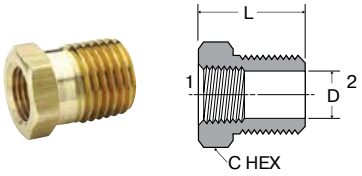




Reducer Coupling 208P

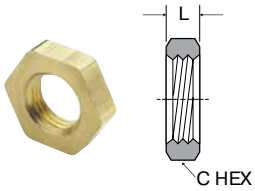
Part No.	Female Pipe Thread	Male Pipe Thread	C Hex	L	Flow Dia. D
208P-4-2	1/4	1/8	3/4	.97	.339
208P-6-4	3/8	1/4	7/8	1.16	.441
208P-8-4	1/2	1/4	1-1/16	1.28	.441
208P-8-6	1/2	3/8	1-1/16	1.38	.571
208P-12-6	3/4	3/8	1-3/8	1.32	.571
208P-12-8	3/4	1/2	1-3/8	1.50	.703

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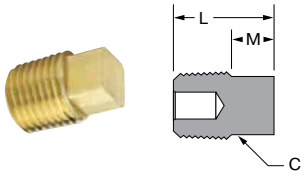
Bushing 209P

Part No.	Female Pipe Thread	Male Pipe Thread	C Hex	L	Flow Dia. D
209P-4-2	1/8	1/4	9/16	.75	.339
209P-6-2	1/8	3/8	11/16	.75	.339
209P-6-4	1/4	3/8	3/4	.75	.441
209P-8-2	1/8	1/2	7/8	1.00	.339
209P-8-4	1/4	1/2	7/8	1.00	.441
209P-8-6	3/8	1/2	7/8	1.00	.571
209P-12-2	1/8	3/4	1-1/8	1.00	.339
209P-12-4	1/4	3/4	1-1/8	1.00	.441
209P-12-6	3/8	3/4	1-1/8	1.00	.571
209P-12-8	1/2	3/4	1-1/8	1.00	.703
209P-16-8	1/2	1	1-3/8	1.31	.703
209P-16-12	3/4	1	1-3/8	1.31	.906



Lock Nut 210P

Part No.	Pipe Thd	C Hex	L
210P-2	1/8 NPSL	11/16	.19
210P-4	1/4 NPSL	7/8	.25
210P-6	3/8 NPSL	1	.25
210P-8	1/2 NPSL	1-1/8	.25

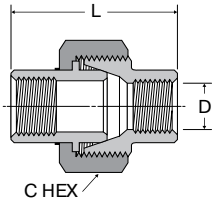


Square-Head Plug 211P

Part No.	Pipe Thd	C	L	M
211P-2	1/8	9/32	.59	.25
211P-4	1/4	3/8	.80	.29
211P-6	3/8	7/16	.83	.32
211P-8	1/2	9/16	1.07	.39
211P-12	3/4	5/8	1.14	.45

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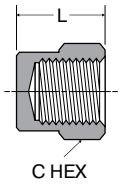




Union 212P

Part No.	Pipe Thd	C Hex	L	D
212P-4	1/4	1-3/16	1.54	.441
212P-6	3/8	1-1/4	1.76	.571

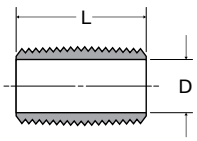




Cap 213P

Part No.	Pipe Thd	C Hex	L
213P-2	1/8	9/16	.50
213P-4	1/4	11/16	.63
213P-6	3/8	13/16	.63
213P-8	1/2	1-1/16	.87
213P-12	3/4	1-1/4	.89



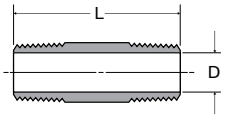


Close Nipple 215PN

Part No.	Pipe Thd	L	Flow Dia. D
215PN-2	1/8	.75	.281
215PN-4	1/4	.88	.375
215PN-6	3/8	1.00	.500
215PN-8	1/2	1.13	.625
215PN-12	3/4	1.31	.750

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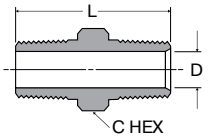




Long Nipple 215PNL

Part No.	Pipe Thd	L	Flow Dia. D
215PNL-2-15	1/8	1-1/2	.250
215PNL-4-15	1/4	1-1/2	.375
215PNL-6-15	3/8	1-1/2	.500
215PNL-8-15	1/2	1-1/2	.625
215PNL-2-20	1/8	2	.250
215PNL-4-20	1/4	2	.375
215PNL-6-20	3/8	2	.500
215PNL-8-20	1/2	2	.625
215PNL-2-25	1/8	2-1/2	.250
215PNL-4-25	1/4	2-1/2	.375
215PNL-6-25	3/8	2-1/2	.500
215PNL-8-25	1/2	2-1/2	.625
215PNL-2-30	1/8	3	.250
215PNL-4-30	1/4	3	.375
215PNL-6-30	3/8	3	.500
215PNL-8-30	1/2	3	.625
215PNL-2-35	1/8	3-1/2	.250
215PNL-4-35	1/4	3-1/2	.375
215PNL-6-35	3/8	3-1/2	.500
215PNL-8-35	1/2	3-1/2	.625



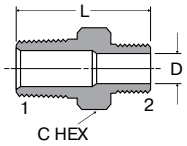


Hex Nipple 216P

Part No.	Pipe Thd	C Hex	L	Flow Dia. D
216P-2	1/8	7/16	.97	.220
216P-4	1/4	9/16	1.38	.314
216P-6	3/8	11/16	1.41	.440
216P-8	1/2	7/8	1.81	.564
216P-12	3/4	1-1/16	1.81	.752

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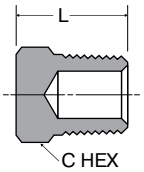




Hex Nipple Reducers 216P

Part No.	1 Pipe Thd	2 Pipe Thd	C Hex	L	Flow Dia. D
216P-4-2	1/4	1/8	9/16	1.19	.220
216P-6-2	3/8	1/8	11/16	1.22	.220
216P-6-4	3/8	1/4	11/16	1.41	.314
216P-8-4	1/2	1/4	7/8	1.62	.314
216P-8-6	1/2	3/8	7/8	1.62	.440
216P-12-8	3/4	1/2	1-1/16	1.80	.564

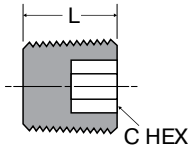




Hex-Head Plug 218P

Part No.	Pipe Thd	C Hex	L
218P-2	1/8	7/16	.560
218P-4	1/4	9/16	.747
218P-6	3/8	11/16	.780
218P-8	1/2	7/8	.970
218P-12	3/4	1-1/16	1.054



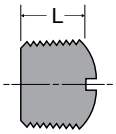


Countersunk Hex-Head Plug 219P

Part No.	Pipe Thd	C Hex	L
219P-2	1/8	3/16	.30
219P-4	1/4	1/4	.46
219P-6	3/8	5/16	.46
219P-8	1/2	3/8	.61
219P-12	3/4	9/16	.62

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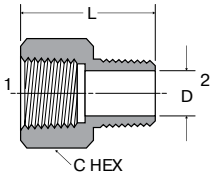




Slotted-Head Plug 220P

Part No.	Pipe Thd	L
220P-2	1/8	.31
220P-4	1/4	.42
220P-6	3/8	.43

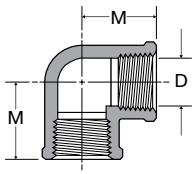




Adapter 222P

Part No.	Female Pipe Thread	Male Pipe Thread	C Hex	L	Flow Dia. D
222P-2-2	1/8	1/8	9/16	.88	.220
222P-4-2	1/4	1/8	3/4	1.06	.220
222P-4-4	1/4	1/4	3/4	1.25	.314
222P-6-2	3/8	1/8	7/8	1.10	.220
222P-6-4	3/8	1/4	7/8	1.25	.314
222P-6-6	3/8	3/8	7/8	1.25	.440
222P-8-4	1/2	1/4	1	1.47	.314
222P-8-6	1/2	3/8	1-1/16	1.47	.440
222P-8-8	1/2	1/2	1-1/16	1.66	.564
222P-12-6	3/4	3/8	1-3/8	1.50	.440
222P-12-8	3/4	1/2	1-3/8	1.69	.564
222P-12-12	3/4	3/4	1-3/8	1.69	.752



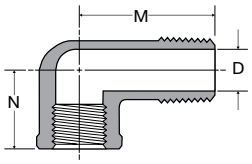


90° Union Elbow 1200P

Part No.	Pipe Thd	M	Flow Dia. D
1200P-2-2	1/8	.56	.329
1200P-4-4	1/4	.81	.441
1200P-6-6	3/8	.84	.571
1200P-8-8	1/2	1.07	.70

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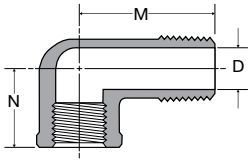




90° Street Elbow 1202P

Part No.	Female Pipe Thread	Male Pipe Thread	M	N	Flow Dia. D
1202P-2-2	1/8	1/8	.64	.46	.25
1202P-4-2	1/4	1/8	.72	.48	.23
1202P-4-4	1/4	1/4	.90	.56	.35
1202P-4-6	1/4	3/8	.98	.77	.44
1202P-6-4	3/8	1/4	.98	.77	.31
1202P-6-6	3/8	3/8	.98	.77	.42
1202P-6-8	3/8	1/2	1.53	1.01	.56
1202P-8-6	1/2	3/8	1.25	.97	.42
1202P-8-8	1/2	1/2	1.33	1.01	.55
1202P-12-8	3/4	1/2	1.39	1.1	.56
1202P-12-12	3/4	3/4	1.39	1.1	.75



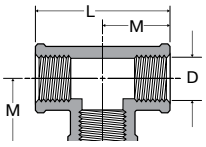


90° Street Elbow 1202PA

Part No.	Female Pipe Thread	Male Pipe Thread	M	N	Flow Dia. D
1202PA-2-2	1/8	1/8	0.68	0.48	0.22
1202PA-4-4	1/4	1/4	0.93	0.7	0.31
1202PA-6-6	3/8	3/8	0.99	0.76	0.44

* Meets SAE Dimensions



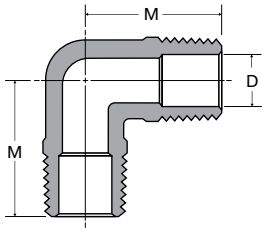


Union Tee 1203P-2203P

Part No.	Pipe Thd	L	M	Flow Dia. D
1203P-2	1/8	1.12	.56	.339
1203P-4	1/4	1.38	.69	.441
1203P-6	3/8	1.66	.83	.57
1203P-8	1/2	2.12	1.06	.703
1203P-12	3/4	2.28	1.14	.91

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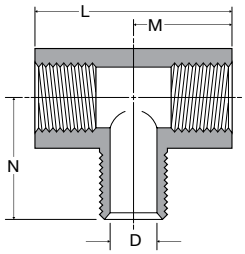




Male Elbow 1204P

Part No.	Pipe Thd	M	Flow Dia. D
1204P-2	1/8	.71	.220
1204P-4	1/4	1.09	.312
1204P-6	3/8	1.09	.408
1204P-8	1/2	1.41	.502

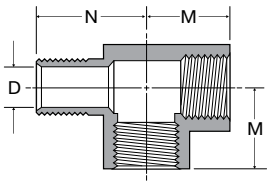




Male Branch Tee 1224P

Part No.	Pipe Thd	L	M	N	Flow Dia. D
1224P-2	1/8	1.06	.53	.68	.22
1224P-4	1/4	1.52	.76	.91	.31
1224P-6	3/8	1.66	.83	.97	.44
1224P-8	1/2	2.14	1.07	1.25	.56
1224P-12	3/4	2.28	1.14	1.38	.75



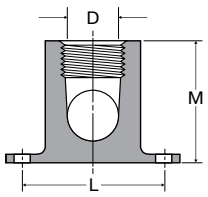


Street Tee 1225P

Part No.	Pipe Thd	M	N	Dia. D
1225P-2	1/8	.53	.68	.22
1225P-4	1/4	.76	.91	.31
1225P-6	3/8	.83	.97	.44
1225P-8	1/2	1.07	1.25	.56
1225P-12	3/4	1.14	1.38	.75

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

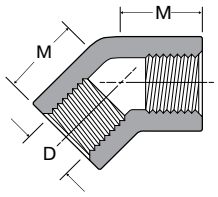




Drop-ear 90˚ Elbow 2200PDE

Part No.	Pipe Thd	L	M	Flow Dia. D
2200PDE-2	1/8	1.38	1.00	.339

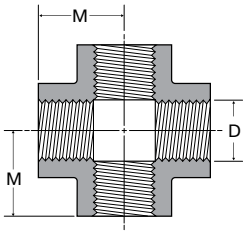




45˚ Female Elbow 1201P

Part No.	Pipe Thd	M	Flow Dia. D
1201P-2-2	1/8	0.43	.34
1201P-8-8	1/2	.89	.703



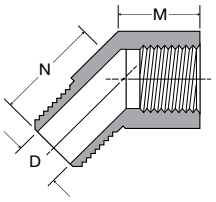


Cross 1205P

Part No.	Pipe Thd	M	Flow Dia. D
1205P-2	1/8	.53	.34
1205P-4	1/4	.74	.44
1205P-6	3/8	.81	.58
1205P-8	1/2	1.05	.72
1205P-12	3/4	1.16	.92

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

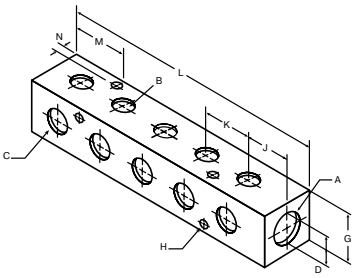




45° Street Elbow 1214P

Part No.	Pipe Thd	M	N	Flow Dia. D
1214P-2-2	1/8	.38	.50	.22
1214P-4-4	1/4	.54	.70	.31
1214P-6-6	3/8	.56	.78	.44
1214P-8-8	1/2	.73	1.00	.56
1214P-12-12	3/4	.73	1.04	.75





Brass Manifold 255M

Part No.	Pipe Thd A	Pipe Thd B	Pipe Thd D	G	Mounting Hole Dia. H	J	K	L	M	N	D
X255MP-6-4-2	3/8	1/8	1/4	1.25	.22	.88	1.13	6.25	1.45	.25	.25

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

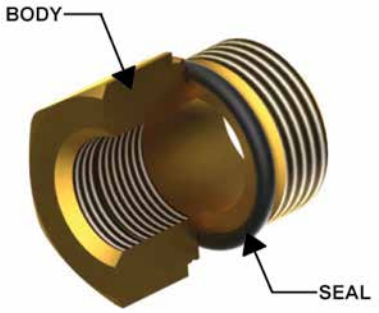


METRIC ADAPTERS

Parker's Metric Adapters offers a comprehensive range of NPT, BSPT, BSPP and metric pipe threads. Metric adapters are produced in both forgings and extrusions.

Product Features:

- All brass construction
- Nickel plated adapters
- Robust design
- Reusable



Markets:

- Industrial
- Construction
- Heavy duty truck
- Mobile
- Factory/process automation

Applications:

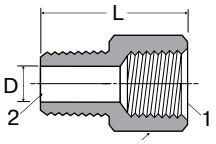
- Air Lines
- Water Line
- Cooling Lines

Specifications:

	Pressure Range	Temperature Range
Brass	1/8" to 1/2": 2900 PSI (200 bar) 3/4" and 1": 2175 PSI (150 bar) without sealing washer	-76F to +302F (-60°C to +150°C) without sealing washer -4F to +34F (-20°C to +100°C) with sealing washer
Nickel-plated Brass	870 PSI (59.9 bar)	+14F to +176F (-10°C to +80°C)

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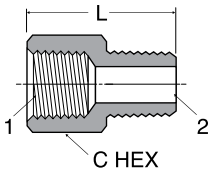




F3HG Adapter NPTF Male BSPT

Part No.	NPTF 1	BSPT 2	C Hex	L	Flow D
1/8F3HG-B	1/8	1/8	9/16	.93	.22
1/4F3HG-B	1/4	1/4	3/4	1.35	.31
3/8F3HG-B	3/8	3/8	7/8	1.35	.44
1/2F3HG-B	1/2	1/2	1-1/16	1.76	.56

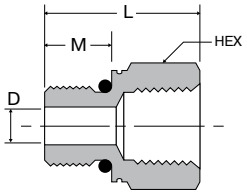




0164 Adapter Male NPT/Female BSPP

Part No.	BSPP 1	NPTF 2	C Hex	L
0164 11 10	1/8	1/8	14	20
0164 14 13	1/4	1/4	17	27.5
0164 18 17	3/8	3/8	22	28.5
0164 22 21	1/2	1/2	27	36.5
0164 28 27	3/4	3/4	32	38.5





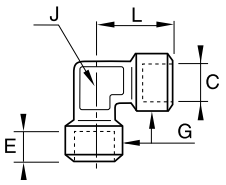
Pipe to Metric Adaptor 222P-X-MIX

Part No.	NPTF	Metric Thd	Hex	L	M	D
222P-2-MI10	1/8-27	M10 X 1.0	9/16	.80	.34	.18
222P-2-MI14	1/8-27	M14 X 1.5	3/4	.91	.43	.30
222P-4-MI12	1/4-18	M12 X 1.5	11/16	1.09	.43	.24
222P-6-MI16	3/8-18	M16 X 1.5	7/8	1.10	.45	.35
222P-6-MI22	3/8-18	M22 X 1.5	1 1/16	1.05	.37	.47
222P-8-MI27	1/2-14	M27 X 2.0	1 1/4	1.32	.63	.60

Note: Fluorocarbon o-ring is standard

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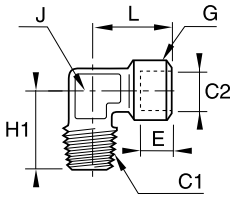




0143 90° Union Elbow BSPP

Part No.	C BSPP	E (mm)	G (mm)	J (mm)	L (mm)	Wt. (kg)
0143 10 10	G1/8	7.5	16.5	12	22.5	.042
0143 13 13	G1/4	11	18.5	15	26.5	.055
0143 17 17	G3/8	11.5	23.5	19	31.5	.098
0143 21 21	G1/2	15	28	23	35.5	.158
0143 27 27	G3/4	16.5	34	27	43.5	.256

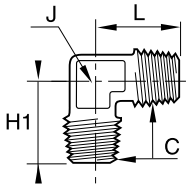




0144 Street Elbow Female BSPP to Male BSPT

Part No.	C1 BSPT	C2 BSPP	E (mm)	G (mm)	H1 (mm)	J (mm)	L (mm)	Wt. (kg)
0144 10 10	R1/8	G1/8	7.5	16.5	23	12	22.5	.033
0144 13 13	R1/4	G1/4	11	18.5	26	15	26.5	.050
0144 17 17	R3/8	G3/8	11.5	23.5	30	19	31.5	.085
0144 21 21	R1/2	G1/2	15	28	35	23	34.5	.138
0144 27 27	R3/4	G3/4	16.5	34	40	27	43.5	.229



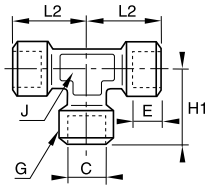


0152 Union Elbow Male BSPT

Part No.	C BSPT	H1 (mm)	J (mm)	L (mm)	Wt. (kg)
0152 10 10	R1/8	19.5	10	19.5	.018
0152 13 13	R1/4	25	15	25	.045
0152 17 17	R3/8	26.5	15	26.5	.056
0152 21 21	R1/2	31.5	19	31.5	.087
0152 27 27	R3/4	35.5	23	35.5	.153

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

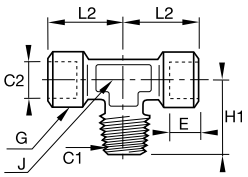




0145 Female Union Tee BSPP

Part No.	C BSPP	E (mm)	G (mm)	H1 (mm)	J (mm)	L2 (mm)	Wt. (kg)
0145 10 10	G1/8	7.5	16.5	22.5	12	22.5	.051
0145 13 13	G1/4	11	18.5	26.5	15	26.5	.074
0145 17 17	G3/8	11.5	23.5	31	19	31	.147
0145 21 21	G1/2	15	28	38	23	38	.231
0145 27 27	G3/4	16.5	34	47.5	27	47.5	.381

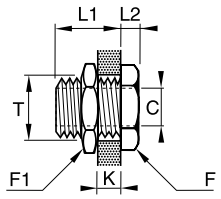




0158 Branch Tee Female BSPP to Male BSPT

Part No.	C1 BSPT	C2 BSPP	E (mm)	G (mm)	H1 (mm)	J (mm)	L2 (mm)	Wt. (kg)
0158 10 10	R1/8	G1/8	7.5	16.5	21.5	12	21.5	.045
0158 13 13	R1/4	G1/4	11	18.5	26	15	26	.071
0158 17 17	R3/8	G3/8	11.5	23.5	30	19	30	.118
0158 21 21	R1/2	G1/2	15	28	36	23	36	.203
0158 27 27	R3/4	G3/4	16.5	34	44	27	44	.320



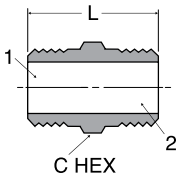


0117 Bulkhead BSPP and M5

Part No.	C BSPP/M5	F (mm)	F1 (mm)	K max (mm)	L1 (mm)	L2 (mm)	T max (mm)	Wt. (kg)
0117 00 19	M5X0.8	14	14	7	10.5	3.5	10.5	.013
0117 00 10	G1/8	19	22	9	14	4	16.5	.033
0117 00 13	G1/4	24	27	15	21	4	20.5	.057
0117 00 17	G3/8	30	32	14	21	5	26.5	.096
0117 00 21	G1/2	32	36	20	27	6	28.5	.117
0117 00 27	G3/4	41	41	22.5	30	6	34.5	.162
0117 00 34	G1	46	50	24.5	34	8	42.5	.270
0117 00 42	G1-1/4	55	55	29.5	39	8	49.5	.300
0117 00 49	G1-1/2	60	60	29.5	39	8	54.5	.306

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

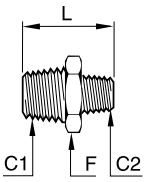




0121 Hex Nipple NPT/BSPT

Part No.	NPTF 1	BSPT 2	C Hex	L
0121 11 10	1/8	1/8	11	19
0121 14 13	1/4	1/4	14	27
0121 18 17	3/8	3/8	17	28
0121 22 21	1/2	1/2	22	36
0121 28 27	3/4	3/4	27	40



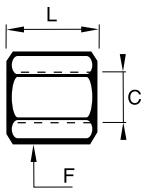


0121 Hex Nipple Male BSPT

Part No.	C1 BSPT	C2 BSPT	F (mm)	L (mm)	Wt. (kg)
0121 10 10	R1/8	R1/8	11	19	.009
0121 13 13	R1/4	R1/4	14	27	.021
0121 13 10	R1/4	R1/8	14	23.5	.021
0121 17 17	R3/8	R3/8	17	28	.025
0121 17 13	R3/8	R1/4	17	27.5	.024
0121 17 10	R3/8	R1/8	17	24	.022
0121 21 21	R1/2	R1/2	22	36	.053
0121 21 17	R1/2	R3/8	22	32.5	.045
0121 21 13	R1/2	R1/4	22	32	.045
0121 21 10	R1/2	R1/8	22	28.5	.041
0121 27 27	R3/4	R3/4	27	40	.092
0121 27 21	R3/4	R1/2	27	39	.084
0121 27 17	R3/4	R3/8	27	35.5	.076
0121 27 13	R3/4	R1/4	27	35	.079
0121 34 34	R1	R1	36	46	.156
0121 34 27	R1	R3/4	36	43	.143
0121 34 21	R1	R1/2	36	42	.133
0121 34 17	R1	R3/8	36	38.5	.126
0121 42 42	R1-1/4	R1-1/4	46	53	.233
0121 42 34	R1-1/4	R1	46	50.5	.237
0121 42 27	R1-1/4	R3/4	46	47.5	.229
0121 42 21	R1-1/4	R1/2	46	46.5	.219

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

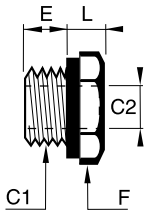




0155 Coupling BSPP

Part No.	C BSPP	F (mm)	L (mm)	Wt. (kg)
0155 10 10	G1/8	14	17	.015
0155 13 13	G1/4	17	24	.025
0155 17 17	G3/8	22	25	.045
0155 21 21	G1/2	27	32	.084
0155 27 27	G3/4	32	35	.109





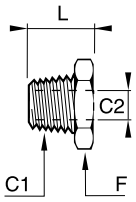
0168 Adapter Reducer Female BSPP to Male BSPP

Part No.	C1 BSPP	C2 BSPP	E (mm)	F (mm)	L (mm)	Wt. (kg)
0168 10 19	G1/8	M5X0.8	7	14	6	.008
0168 13 19	G1/4	M5X0.8	7	17	7	.010
0168 13 10	G1/4	G1/8	7	17	7	.010
0168 17 10	G3/8	G1/8	9	19	6	.020
0168 17 13	G3/8	G1/4	9	19	6	.013
0168 21 10	G1/2	G1/8	11	24	10	.046
0168 21 13	G1/2	G1/4	11	24	10	.038
0168 21 17	G1/2	G3/8	11	24	10	.026
0168 27 13	G3/4	G1/4	11	32	12	.090
0168 27 17	G3/4	G3/8	11	32	12	.078
0168 27 21	G3/4	G1/2	11	32	12	.058

* With captive polymer seal

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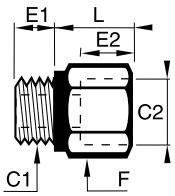




0163 Adapter Reducer Female BSPP to Male BSPT

Part No.	C1 BSPT	C2 BSPP	F (mm)	L (mm)	Wt. (kg)
0163 13 10	R1/4	G1/8	14	16	.009
0163 17 10	R3/8	G1/8	17	16.5	.020
0163 17 13	R3/8	G1/4	17	16.5	.012
0163 21 10	R1/2	G1/8	22	21	.047
0163 21 13	R1/2	G1/4	22	21	.038
0163 21 17	R1/2	G3/8	22	21	.025
0163 27 13	R3/4	G1/4	27	24	.086
0163 27 17	R3/4	G3/8	27	24	.069
0163 27 21	R3/4	G1/2	27	24	.048





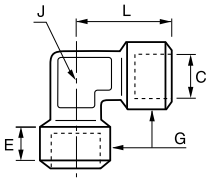
0169 Expander Female BSPP to Male BSPP

Part No.	C1 BSPP	C2 BSPP	E1(mm)	E2(mm)	F (mm)	L (mm)	Wt. (kg)
0169 10 13	G1/8	G1/4	5	11	17	16	.020
0169 10 17	G1/8	G3/8	5	14	22	19.5	.038
0169 13 17	G1/4	G3/8	7	14	22	19.5	.042
0169 13 21	G1/4	G1/2	7	14.5	27	20.5	.061
0169 17 21	G3/8	G1/2	8	14.5	27	20.5	.062
0169 17 27	G3/8	G3/4	8	15.5	32	22	.082
0169 21 27	G1/2	G3/4	9.5	15.5	32	22.5	.088

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Nickel Plated Metric Adapters

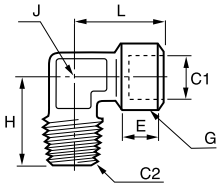




0912 Female Elbow BSPP and M5

Part No.	C BSPP/M5	E (mm)	G (mm)	J (mm)	L (mm)	Wt. (kg)
0912 00 19	M5	4	8	9	11	.037
0912 00 10	G1/8	8	13	10	21	.042
0912 00 13	G1/4	11	17	13	25.5	.055
0912 00 17	G3/8	11.5	21	17	28	.098
0912 00 21	G1/2	14	26	21	33.5	.158
0912 00 27	G3/4	15	31	27	36.5	.256

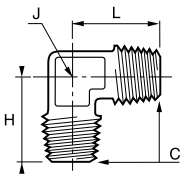




0913 / 0921 Street Elbow Female BSPP to Male BSPT and M5

Part No.	C1 BSPP/M5	C2 BSPT	E (mm)	G (mm)	H (mm)	J (mm)	L (mm)	Wt. (kg)
0921 00 19	M5		4	8	11	9	11	.037
0913 00 10	G1/8	R1/8	8	13	18.5	10	21	.033
0913 00 13	G1/4	R1/4	11	17	23.5	13	25.5	.050
0913 00 17	G3/8	R3/8	11.5	21	26	17	28	.085
0913 00 21	G1/2	R1/2	14	26	31	21	33.5	.138
0913 00 27	G3/4	R3/4	15	31	35	27	36.5	.229



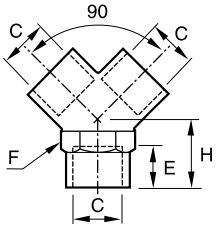


0914 / 0922 Equal Elbow Male BSPT or M5

Part No.	C BSPT/M5	H (mm)	J (mm)	L (mm)	Wt. (kg)
0922 00 19	M5	11	9	11	.037
0914 00 10	R1/8	18.5	10	18.5	.018
0914 00 13	R1/4	23.5	13	23.5	.045
0914 00 17	R3/8	26	17	26	.056
0914 00 21	R1/2	31	21	31	.087
0914 00 27	R3/4	35	27	35	.153

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

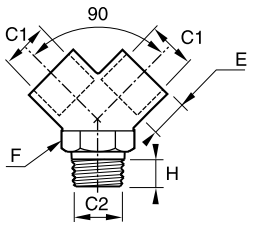




0910 “Y” Connector Female BSPP

Part No.	C BSPP	E (mm)	F (mm)	H (mm)	Wt. (kg)
0910 00 10	1/8	8	13	12	.055
0910 00 13	1/4	11	17	14	.081
0910 00 17	3/8	11.5	20	16	.128
0910 00 21	1/2	14	25	19	.213

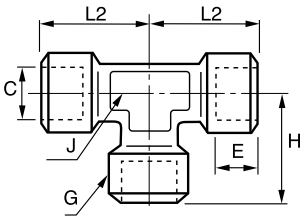




0911 “Y” Connector Female BSPP to Male BSPT

Part No.	C1 BSPP	C2 BSPT	E	F	H	Wt.
0911 00 10	G1/8	R1/8	8	13	12	.055
0911 00 13	G1/4	R1/4	11	17	14	.081
0911 00 17	G3/8	R3/8	11.5	20	16	.128
0911 00 21	G1/2	R1/2	14	25	19	.213



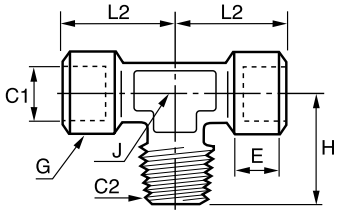


0915 Female Tee BSPP or M5

Part No.	C BSPP/M5	E (mm)	G (mm)	H (mm)	J (mm)	L2 (mm)	Wt. (kg)
0915 00 19	M5	4	8	11	9	11	.047
0915 00 10	G1/8	8	13	21	10	21	.051
0915 00 13	G1/4	11	17	25.5	13	25.5	.074
0915 00 17	G3/8	11.5	21	28	17	28	.147
0915 00 21	G1/2	14	26	33.5	21	33.5	.231
0915 00 27	G3/4	15	31	36.5	27	36.5	.381

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

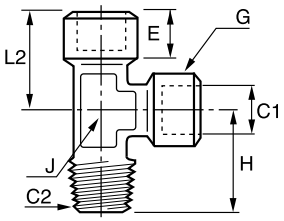




0916 / 0923 Branch Tee Female BSPP to Male BSPT

Part No.	C1 BSPP/M5	C2 BSPT	E (mm)	G (mm)	H (mm)	J (mm)	L2 (mm)	Wt. (kg)
0923 00 19	M5		4	8	11	9	11	.040
0916 00 10	G1/8	R1/8	8	13	18.5	10	21	.045
0916 00 13	G1/4	R1/4	11	17	23.5	13	25.5	.071
0916 00 17	G3/8	R3/8	11.5	21	26	17	28	.118
0916 00 21	G1/2	R1/2	14	26	31	21	33.5	.203
0916 00 27	G3/4	R3/4	15	31	36.5	27	36.5	.320

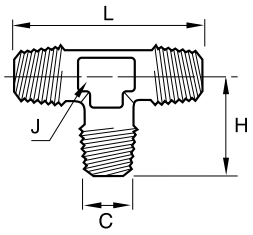




0917 / 0924 Run Tee Female BSPP to Male BSPT or M5

Part No.	C1 BSPP/M5	C2 BSPT	E (mm)	G (mm)	H (mm)	J (mm)	L2 (mm)	Wt. (kg)
0924 00 19	M5		4	8	11	9	11	.040
0917 00 10	G1/8	R1/8	8	13	18.5	10	21	.045
0917 00 13	G1/4	R1/4	11	17	23.5	13	25.5	.071
0917 00 17	G3/8	R3/8	11.5	21	26	17	28	.118
0917 00 21	G1/2	R1/2	14	26	31	21	33.5	.203
0917 00 27	G3/4	R3/4	15	31	36.5	27	36.5	.320



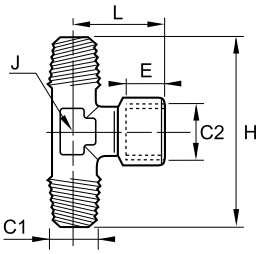


0927 Equal Male Tee BSPT

Part No.	C BSPT	H (mm)	J (mm)	L (mm)	Wt. (kg)
0927 00 10	R1/8	18.5	10	37	.017
0927 00 13	R1/4	23.5	13	47	.038
0927 00 17	R3/8	26	17	52	.057
0927 00 21	R1/2	31	21	62	.093

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

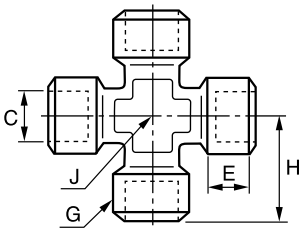




0928 Male Stud Branch Tee BSPT Female BSPP

Part No.	C1 BSPT	C2 BSPP	E (mm)	H (mm)	J (mm)	L (mm)	Wt. (kg)
0928 00 10	R1/8	G1/8	8	37	10	21	0.021
0928 00 13	R1/4	G1/4	11	47	13	25.5	0.044
0928 00 17	R3/8	G3/8	11.5	52	17	28	0.066
0928 00 21	R1/2	G1/2	14	62	21	33.5	0.109

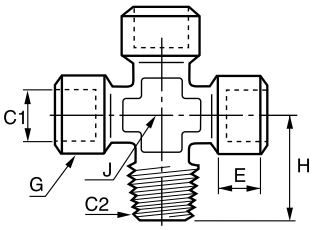




0908 Cross Female BSPP

Part No.	C BSPP	E (mm)	G (mm)	H (mm)	J (mm)	Wt. (kg)
0908 00 10	G1/8	8	13	21	10	.055
0908 00 13	G1/4	11	17	25.5	13	.081
0908 00 17	G3/8	11.5	21	28	17	.128
0908 00 21	G1/2	14	26	33.5	21	.213



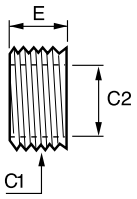


0909 Cross Female BSPP to Male BSPT

Part No.	C1 BSPP	C2 BSPT	E (mm)	G (mm)	H (mm)	J (mm)	Wt. (kg)
0909 00 10	G1/8	R1/8	8	13	18.5	10	.055
0909 00 13	G1/4	R1/4	11	17	23.5	13	.081
0909 00 17	G3/8	R3/8	11.5	21	26	17	.128
0909 00 21	G1/2	R1/2	14	26	31	21	.213

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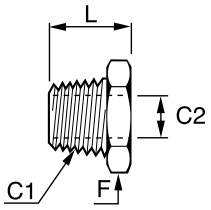




0903 Adapter Reducer BSPP

Part No.	C1 BSPP	C2 BSPP	E (mm)	Wt. (kg)
0903 10 13	G1/4	G1/8	8	.009
0903 13 17	G3/8	G1/4	9	.020
0903 17 21	G1/2	G3/8	10	.025
0903 21 27	G3/4	G1/2	14	.048
0903 27 34	G1"	G3/4	20	.060

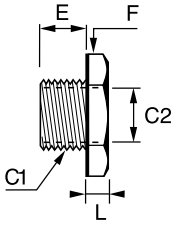




0904 Adapter Reducer Female BSPP to Male BSPT

Part No.	C1 BSPT	C2 BSPP	F (mm)	L (mm)	Wt. (kg)
0904 10 13	R1/4	G1/8	14	16	.009
0904 10 17	R3/8	G1/8	17	16.5	.020
0904 13 17	R3/8	G1/4	17	16.5	.012
0904 13 21	R1/2	G1/4	22	19.5	.038
0904 17 21	R1/2	G3/8	22	19.5	.025
0904 17 27	R3/4	G3/8	27	23.5	.069
0904 21 27	R3/4	G1/2	27	23.5	.048



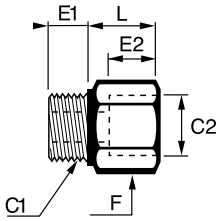


0905 Adapter Reducer Male BSPP to Female BSPP or M5

Part No.	C1 BSPP	C2 BSPP/M5	E (mm)	F (mm)	L (mm)	Wt. (kg)
0905 19 10	G1/8	M5	6	14	4.5	.009
0905 10 13	G1/4	G1/8	8	17	5	.009
0905 10 17	G3/8	G1/8	9	19	5	.020
0905 13 17	G3/8	G1/4	9	19	5	.012
0905 13 21	G1/2	G1/4	10	24	5.5	.038
0905 17 21	G1/2	G3/8	10	24	5.5	.025
0905 17 27	G3/4	G3/8	12	30	5.5	.069
0905 21 27	G3/4	G1/2	12	30	5.5	.048

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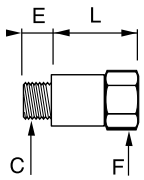




0906 Expander Female BSPP to Male BSPP

Part No.	C1 BSPP/M5	C2 BSPP	E1 (mm)	E2 (mm)	F (mm)	L (mm)	Wt. (kg)
0906 10 19	M5	G1/8	4	8	14	10	.009
0906 00 10	G1/8	G1/8	6	8.5	14	10	.009
0906 10 13	G1/8	G1/4	6	11.5	17	14	.020
0906 10 17	G1/8	G3/8	6	11.5	22	14.5	.038
0906 00 13	G1/4	G1/4	8	11.5	17	14	.040
0906 13 17	G1/4	G3/8	8	11.5	22	14.5	.042
0906 13 21	G1/4	G1/2	8	15	27	18	.061
0906 00 17	G3/8	G3/8	9	11.5	22	14.5	.061
0906 17 21	G3/8	G1/2	9	15	27	18	.062
0906 00 21	G1/2	G1/2	10	15	27	18	.070

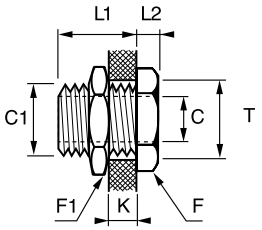




0907 Extended Adapter BSPP

Part No.	C BSPP	E (mm)	F (mm)	L (mm)	Wt. (kg)
0907 00 10	G1/8	6	14	16	.009
0907 00 10 01	G1/8	6	14	36	.009
0907 00 13	G1/4	8	17	23	.020
0907 00 13 01	G1/4	8	17	43	.020



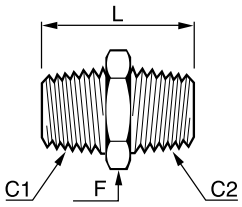


0920 Bulkhead BSPP and M5

Part No.	C1 Metric	C BSPP/M5	F (mm)	F1 (mm)	K Max (mm)	L1 (mm)	L2 (mm)	T Min (mm)	Wt. (kg)
0920 00 19	M10X1	M5	14	14	7	10.5	3.5	10.5	.013
0920 00 10	M16X1.5	G1/8	19	22	9	14	4	16.5	.033
0920 00 13	M20X1.5	G1/4	24	27	15	21	4	20.5	.057
0920 00 17	M26X1.5	G3/8	30	32	14	21	5	26.5	.096
0920 00 21	M28X1.5	G1/2	32	36	20	27	6	28.5	.117

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

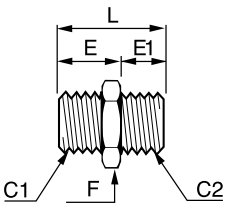




0900 Male Straight Adapter BSPT

Part No.	C1 BSPT	C2 BSPT	F (mm)	L (mm)	Wt. (kg)
0900 00 10	R1/8	R1/8	12	19.5	.009
0900 10 13	R1/8	R1/4	14	23.5	.021
0900 00 13	R1/4	R1/4	14	27	.021
0900 10 17	R1/8	R3/8	17	24	.022
0900 13 17	R1/4	R3/8	17	27.5	.024
0900 00 17	R3/8	R3/8	17	28	.025
0900 13 21	R1/4	R1/2	22	30.5	.045
0900 17 21	R3/8	R1/2	22	31	.045
0900 00 21	R1/2	R1/2	22	33.5	.055
0900 21 27	R1/2	R3/4	27	37.5	.084
0900 00 27	R3/4	R3/4	27	40	.092
0900 27 34	R3/4	R1	34	43	.143
0900 00 34	R1	R1	34	45.5	.156



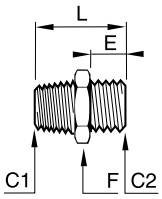


0901 Male Straight Adapter M5 or BSPP

Part No.	C1 BSPP/M5	C2 BSPP/M5	E (mm)	E1 (mm)	F (mm)	L (mm)	Wt. (kg)
0901 00 19	M5	M5	4	4	8	11.5	.002
0901 19 10	M5	G1/8	4	6	14	14.5	.008
0901 00 10	G1/8	G1/8	6	6	14	16.5	.008
0901 10 13	G1/8	G1/4	6	8	17	19	.014
0901 00 13	G1/4	G1/4	8	8	17	21	.016
0901 13 17	G1/4	G3/8	8	9	19	22	.021
0901 00 17	G3/8	G3/8	9	9	19	23	.024

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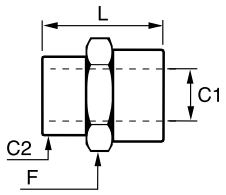




0192 Male Straight Adapter BSPT to BSPP

Part No.	C1 BSPT	C2 BSPP	E (mm)	F (mm)	L (mm)	Wt. (kg)
0192 10 13	R1/8	G1/4	9.5	17	23.5	.019
0192 13 13	R1/4	G1/4	9.5	17	27.5	.024
0192 13 21	R1/4	G1/2	27	27	31.5	.067
0192 17 13	R3/8	G1/4	9.5	17	45	.025
0192 17 21	R3/8	G1/2	27	27	31.5	.061
0192 21 21	R1/2	G1/2	27	27	34	.060





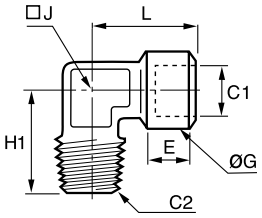
0902 Female Sleeve BSPP and M5

Part No.	C1 BSPP/M5	C2 BSPP/M5	F (mm)	L (mm)	Wt. (kg)
0902 00 19	M5	M5	8	11	.009
0902 19 10	M5	G1/8	14	13	.009
0902 00 10	G1/8	G1/8	14	15	.015
0902 10 13	G1/8	G1/4	17	19.5	.020
0902 00 13	G1/4	G1/4	17	22	.025
0902 10 17	G1/8	G3/8	22	20	.030
0902 13 17	G1/4	G3/8	22	23	.040
0902 00 17	G3/8	G3/8	22	24	.045
0902 13 21	G1/4	G1/2	27	27	.050
0902 17 21	G3/8	G1/2	27	27.5	.060
0902 00 21	G1/2	G1/2	27	30	.084
0902 21 27	G1/2	G3/4	30	30	.090
0902 00 27	G3/4	G3/4	30	32	.109

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Stainless Steel Adapters

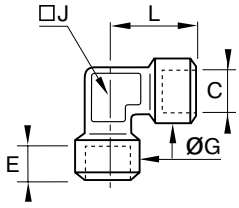




1844 Equal Male Stud Elbow Male BSPT to Female BSPP

Part No.	C1 BSPT	C2 BSPP	E (mm)	G (mm)	H1 (mm)	J (mm)	L (mm)	Wt. (kg)
1844 10 10	R1/8	G1/8	7.5	15	20.5	10	22.5	.025
1844 13 13	R1/4	G1/4	12	18.5	27.5	12	26.5	.046
1844 17 17	R3/8	G3/8	12	23.5	28	14	30	.070
1844 21 21	R1/2	G1/2	15	28	38	18	38	.125
1844 27 27	R3/4	G3/4	16.5	33	41	22	44.5	.175
1844 34 34	R1	G1	19	40	48	32	50	.335

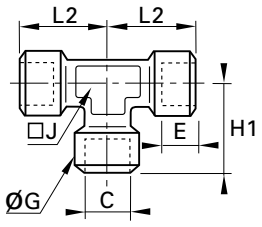




1843 Equal Elbow Female BSPP

Part No.	C BSPP	E (mm)	G (mm)	J (mm)	L (mm)	Wt. (kg)
1843 10 10	G1/8	7.5	15	12	22.5	.044
1843 13 13	G1/4	11	18.5	15	26.5	.051
1843 17 17	G3/8	11.5	23.5	18	29	.077
1843 21 21	G1/2	15	28	23	38	.160
1843 27 27	G3/4	16.5	33	22	43.5	.232
1843 34 34	G1	19	40	32	52	.477



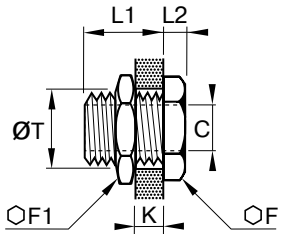


1845 Equal Tee Female BSPP

Part No.	C BSPP	E (mm)	G (mm)	H1 (mm)	J (mm)	L2 (mm)	Wt. (kg)
1845 10 10	G1/8	7.5	15	22.5	12	22.5	.061
1845 13 13	G1/4	11	18.5	26.5	15	26.5	.074
1845 17 17	G3/8	11.5	23.5	29	18	29	.147
1845 21 21	G1/2	15	28	38	23	38	.224
1845 27 27	G3/4	16.5	33	43.5	22	43.5	.325
1845 34 34	G1	19	40	50	32	50	.489

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

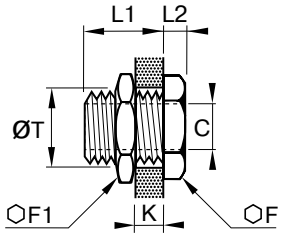




1871 Bulkhead Adapter NPT

Part No.	C Npt	F (mm)	F1 (mm)	K Max (in)	L1 (in)	L2 (in)	T Min (in)	Wt. (oz)
1871 00 11	1/8	19	22	.35	.55	.20	.65	1.33
1871 00 14	1/4	24	27	.67	.91	.20	.81	2.50
1871 00 18	3/8	30	32	.71	.91	.20	1.04	3.92
1871 00 22	1/2	32	36	.87	1.14	.24	1.12	4.98

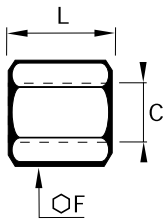




1817 Bulkhead Adapter BSPP

Part No.	C Bspp	F (mm)	F1 (mm)	K Max (in)	L1 (in)	L2 (in)	T Min (in)	Wt. (kg)
1817 00 10	G1/8	19	22	9	14	4	16.5	.033
1817 00 13	G1/4	24	21	15	21	4	20.5	.057
1817 00 17	G3/8	30	32	14	21	5	26.5	.096
1817 00 21	G1/2	32	36	20	27	6	28.5	.117
1817 00 27	G3/4	41	41	22.5	30	6	34.5	.185
1817 00 34	G1	46	50	24.5	34	8	42.5	.306

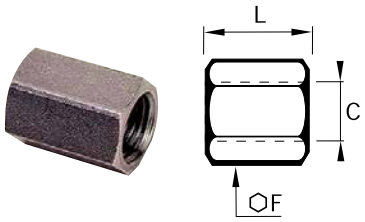




1855 Double Female Sleeve BSPP

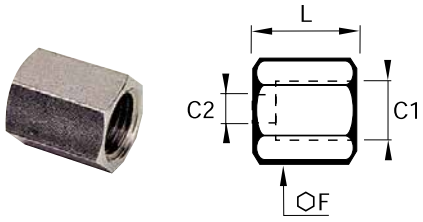
Part No.	C BSPP	F (mm)	L (mm)	Wt. (kg)
1855 10 10	G1/8	14	17	.033
1855 13 13	G1/4	17	24	.023
1855 17 17	G3/8	22	25	.042
1855 21 21	G1/2	27	32	.077
1855 27 27	G3/4	32	35	.116
1855 34 34	G1	41	40	.227

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



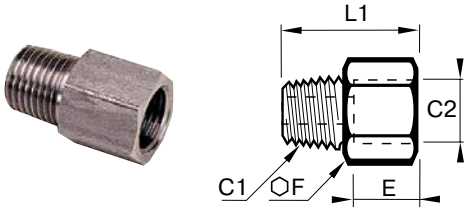
1870 Double Female Sleeve NPT

Part No.	C NPT	F (in)	L (in)	Wt. (oz)
1870 11 11	1/8	.55	.74	.564
1870 14 14	1/4	.67	1.10	1.164
1870 18 18	3/8	.87	1.10	1.940
1870 22 22	1/2	1.06	1.38	3.668



1862 Reducer/Expander Double Female Sleeve, BSPP

Part No.	C1 BSPP	C2 BSPP	F (mm)	L (mm)	Wt. (kg)
1862 13 10	G1/4	G1/8	17	20.5	.023
1862 17 10	G3/8	G1/8	22	21	.042
1862 17 13	G3/8	G1/4	22	24.5	.048
1862 21 13	G1/2	G1/4	27	28.5	.084
1862 21 17	G1/2	G3/8	27	29	.080
1862 34 27	G1	G3/4	41	45	.302

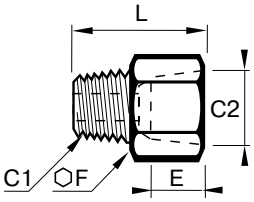


1864 Adapter Male NPT to Female BSPP

Part No.	C1 NPT	C2 BSPP	E (mm)	F (mm)	L (mm)	Wt. (kg)
1864 11 10	1/8	G1/8	7.5	14	21.5	.014
1864 14 13	1/4	G1/4	11	17	30	.027
1864 18 17	3/8	G3/8	11.5	22	31	.043
1864 22 21	1/2	G1/2	15	27	39.5	.079

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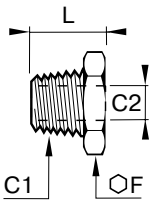




1867 Adapter Male BSPT to Female NPT

Part No.	C1 BSPT	C2 NPT	E (mm)	F (mm)	L (mm)	Wt. (kg)
1867 10 11	R1/8	1/8	8	14	21	.014
1867 13 14	R1/4	1/4	11.5	17	28.5	.027
1867 18 18	R3/8	3/8	12	22	29.5	.044
1867 21 22	R1/2	1/2	15.5	27	37.5	.080

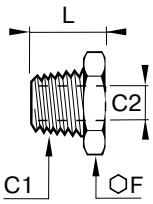




1872 Reducer Male/Female NPT

Part No.	C1 NPT	C2 NPT	F (mm)	L (mm)	Wt. (oz)
1872 14 11	1/4	1/8	14	.63	.42
1872 18 11	3/8	1/8	19	.65	.92
1872 18 14	3/8	1/4	19	.65	.71
1872 22 14	1/2	1/4	22	.83	1.59
1872 22 18	1/2	3/8	22	.83	1.24



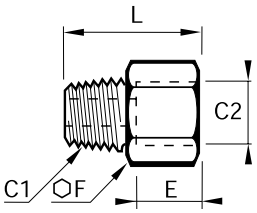


1863 Reducer Male BSPT to Female BSPP

Part No.	C1 BSPT	C2 BSPP	F (mm)	L (mm)	Wt. (kg)
1863 13 10	R1/4	G1/8	14	16	.008
1863 17 10	R3/8	G1/8	17	16.5	.018
1863 17 13	R3/8	G1/4	17	16.5	.011
1863 21 13	R1/2	G1/4	22	21	.035
1863 21 17	R1/2	G3/8	22	21	.022
1863 27 21	R3/4	G1/2	27	25.5	.058
1863 34 27	R1	G3/4	36	28.5	.104

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

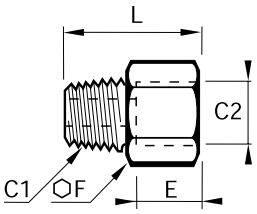




1873 Expander Male/Female NPT

Part No.	C1 NPT	C2 NPT	E (in)	F (mm)	L (in)	Wt. (oz)
1873 11 14	1/8	1/4	.55	14	.98	.092
1873 11 18	1/8	3/8	.55	22	.98	1.48
1873 14 18	1/4	3/8	.55	22	1.10	1.66
1873 14 22	1/4	1/2	.69	27	1.22	2.50
1873 18 22	3/8	1/2	.69	27	1.24	2.54

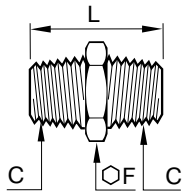




1861 Expander Male BSPT to Female BSPP

Part No.	C1 BSPT	C2 BSPP	E (mm)	F (mm)	L (mm)	Wt. (kg)
1861 10 13	R1/8	G1/4	11	17	24	.021
1861 10 17	R1/8	G3/8	11.5	22	25	.037
1861 13 17	R1/4	G3/8	11.5	22	28.5	.041
1861 13 21	R1/4	G1/2	15	27	32.5	.069
1861 17 21	R3/8	G3/4	15	27	33	.070
1861 21 27	R1/2	G3/4	16.5	32	38	.104
1861 27 34	R3/4	G1	19	41	43.5	.200



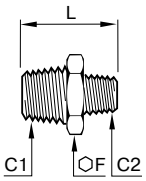


1821 Adapter Male NPT

Part No.	C NPT	F (mm)	L (mm)	Wt. (oz)
1821 11 11	1/8	12	.90	.388
1821 14 14	1/4	14	1.26	.811
1821 18 28	3/8	19	1.30	1.093
1821 22 22	1/2	22	1.65	1.975

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

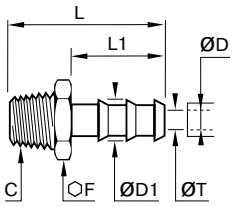




1821 Adapter Male BSPT

Part No.	C1 BSPT	C2 BSPT	F (mm)	L (mm)	Wt. (kg)
1821 10 10	R1/8	R1/8	12	19	.008
1821 13 13	R1/4	R1/4	14	27	.019
1821 13 10	R1/4	R1/8	14	23.5	.015
1821 17 17	R3/8	R3/8	17	28	.025
1821 17 13	R3/8	R1/4	17	27.5	.024
1821 21 21	R1/2	R1/2	22	36	.048
1821 21 17	R1/2	R3/8	22	32.5	.041
1821 27 27	R3/4	R3/4	27	42	.099
1821 27 21	R3/4	R1/2	27	41	.088
1821 34 34	R1	R1	36	46	.168
1821 34 27	R1	R3/4	22	48	.158





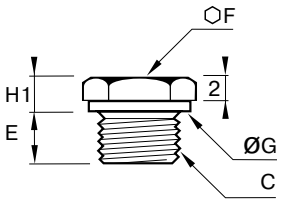
1823 Tailpiece Adapter For Rubber Hose Male NPT

Part No.	ØD (in)	C NPT	ØD1 (in)	F (mm)	L (in)	L1 (in)	T min (mm)	Wt. (oz)
1823 56 11	1/4	1/8	.33	10	1.34	.88	.21	.388
1823 56 14	1/4	1/4	.33	14	1.51	.88	.21	.635
1823 60 14	3/8	1/4	.46	14	1.51	.88	.33	.705
1823 60 18	3/8	3/8	.46	19	1.53	.88	.33	1.022

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Plugs & Washers





0200 Brass Hex Head Plug BSPP and Metric

Part No.	C BSPP	E (mm)	F (mm)	G (mm)	H1 (mm)	H2 (mm)	Wt. (kg)
0200 10 00	G1/8	7	14	13.7	5.5	4	.012
0200 13 00	G1/4	8.5	17	16.7	5.5	4	.019

Part No.	C metric	E (mm)	F (mm)	G (mm)	H1 (mm)	H2 (mm)	Wt. (kg)
0200 52 00	M6X1	6	10	10	4	3.5	.004
0200 57 00	M8X1.25	7	13	13	4	3.5	.007
0200 60 00	M10X1	8	14	14	5	4.5	.012
0200 65 00	M12X1	9	17	17	5	4.5	.018
0200 66 00	M10X1.25	9	17	17	5	4.5	.018

Parallel metric threads ISO – standards NFE 03-054 and BNA 541. Parallel metric threads – standards NFE 03-005 and BNA 541.



0220 Brass Hex Plug BSPP

Part No.	C BSPP	F (mm)	G (mm)	H1 (mm)
0222 10 00	G 1/8	14	14	6.5
0220 13 00	G 1/4	17	17	6.5
0220 17 00	G 3/8	17	22	8
0220 21 00	G 1/2	22	26	9
0220 27 00	G 3/4	22	32	10
0220 34 00	G 1	27	39.5	10.5

0220 Brass Hex Plug BSPP with bi-metal washer

Part No.	C BSPP	F (mm)	G (mm)	H1 (mm)
0222 10 00 39	G 1/8	14	14	6.5
0220 13 00 39	G 1/4	17	17	6.5
0220 17 00 39	G 3/8	17	22	8
0220 21 00 39	G 1/2	22	26	9
0220 27 00 39	G 3/4	22	32	10
0220 34 00 39	G 1	27	39.5	10.5

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



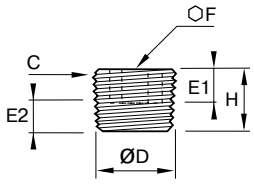
0222 Nickel-Plated Brass Hex Plug BSPP and Metric

Part No.	C BSPP	E (mm)	F (mm)	F1 (mm)	H (mm)	Wt. (kg)
0222 10 00	G 1/8	5	13	5	8.5	0.006
0222 13 00	G 1/4	5.5	16	6	9.5	0.01
0222 17 00	G 3/8	5.5	20	8	10.5	0.019
0222 21 00	G 1/2	7.5	24	10	12	0.031

Part No.	C metric	E (mm)	F (mm)	F1 (mm)	H (mm)	Wt. (kg)
0222 19 00	M5X0.8	3.5	8	2.5	7	0.002
0222 55 00	M7X1	5	10	3	8.5	0.003

With Integrated O-ring Seal





0205 Brass Internal Hex Head Plug NPT and BSPT

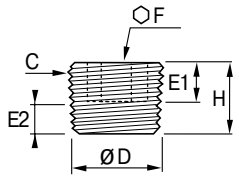
Part No.	C NPT	oD (in)	E1 (in)	E2 min (in)	E2 max (in)	F (in)	H (in)	Wt. (oz)
0205 11 00	1/8	.40	.24	.12	.20	.79	.31	.141
0205 14 00	1/4	.54	.31	.17	.28	.94	.39	.282
0205 18 00	3/8	.67	.31	.18	.29	1.22	.43	.494
0205 22 00	1/2	.93	.31	.25	.39	1.53	.51	.917
0205 28 00	3/4	1.04	.43	.27	.41	2.16	.67	1.834
0205 35 00	1	1.31	.51	.31	.49	2.95	.75	3.245

Part No.	C BSPT	oD (mm)	E1 (mm)	E2 min (mm)	E2 max (mm)	F (mm)	H (mm)	Wt. (kg)
0205 10 00	R1/8	9.728	6	3.1	4.9	5	8	.004
0205 13 00	R1/4	13.157	8	4.7	7.3	6	10	.008
0205 17 00	R3/8	16.662	8	5.1	7.7	8	11	.014
0205 21 00	R1/2	20.955	8	6.4	10	10	13	.027
0205 27 00	R3/4	26.441	11	7.7	11.3	14	17	.053
0205 34 00	R1	33.249	13	8.1	12.7	17	19	.092
0205 42 00	R1-1/4	41.910	14	10.4	15	22	22	.183
0205 49 00	R1-1/2	47.803	14	10.4	15	24	22	.250
0205 48 00	R2	59.614	16	13.6	18.2	30	25	.440

For BSP taper plus 1/2" - 1 1/2" inclusive - thread standard NFE 03-004 - DIN906

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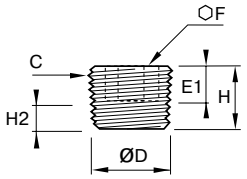


0285 Stainless Steel 316L Internal Hex Head Plug NPT or BSPT

Part No.	C NPT	oD (in)	E1 (in)	E2 min (in)	E2 max (in)	F (mm)	H (in)	Wt. (oz)
0285 11 00	1/8	.40	.24	.13	.20	5	.31	.14
0285 14 00	1/4	.54	.31	.17	.28	6	.39	.25
0285 18 00	3/8	.67	.31	.19	.30	8	.43	.49
0285 22 00	1/2	.84	.31	.25	.39	10	.51	.88

Part No.	C BSPT	oD (mm)	E1 (mm)	E2 min (mm)	E2 max (mm)	F (mm)	H (mm)	Wt. (kg)
0285 10 00	R1/8	9.72	6	3.1	4.9	5	8	.003
0285 13 00	R1/4	13.15	8	4.7	7.3	6	10	.007
0285 17 00	R3/8	16.66	8	5.1	7.7	8	11	.013
0285 21 00	R1/2	20.95	8	6.4	10	10	13	.025
0285 27 00	R3/4	26.44	11	7.7	11.3	14	17	.057
0285 34 00	R1	33.25	13	8.1	12.7	17	19	.098





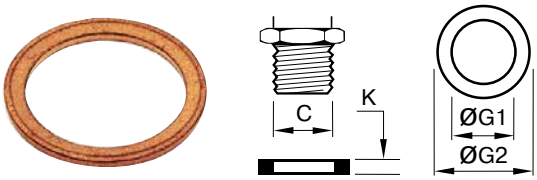
0206 Steel Internal Hex Head NPT and BSPT

Part No.	C NPT	OD (in)	E1 (in)	E2 min (in)	E2 max (in)	F (mm)	H (in)	Wt. (oz)
0206 08 00	1/16	.31	.24	.15	.25	.16	.26	.070
0206 11 00	1/8	.40	.24	.12	.20	.20	.31	.106
0206 14 00	1/4	.54	.31	.17	.28	.24	.39	.247
0206 18 00	3/8	.67	.31	.18	.29	.31	.43	.423
0206 22 00	1/2	.83	.31	.25	.39	.39	.51	.847
0206 28 00	3/4	1.04	.43	.27	.41	.55	.67	1.658
0206 25 00	1	1.31	.51	.31	.49	.67	.75	2.928

Part No.	C BSPT	OD (mm)	E1 (mm)	E2 min (mm)	E2 max (mm)	F (mm)	H (mm)	Wt. (kg)
0285 10 00	R1/8	9.728	6	3.1	4.9	5	8	.003
0285 13 00	R1/4	13.157	8	4.7	7.3	6	10	.007
0285 17 00	R3/8	16.662	8	5.1	7.7	8	11	.013
0285 21 00	R1/2	20.955	8	6.4	10	10	13	.024
0285 27 00	R3/4	26.441	11	7.7	11.3	14	17	.048
0285 34 00	R1	33.249	13	8.1	12.7	17	19	.086
0285 34 00	R1-1/4	41.910	14	10.4	15	22	22	.162
0285 34 00	R1-1/2	47.803	14	10.4	15	24	22	.222

For BSP taper plugs 1/2" - 1 1/2" inclusive - conform to standard BNA 247 - thread - DIN 906 standard NFE 03-004

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

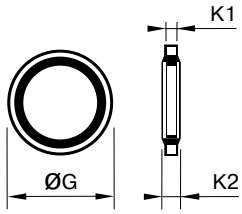


0138 Copper Washer BSPP and Metric

Part No.	C BSPP/M5	G1 (mm)	G2 (mm)	K (mm)	Wt. (oz)
0138 06 00	M6	6.3	9	1	.033
0138 08 00	M8	8.3	11	1	.001
0138 12 00	M12	12.3	15.5	1.5	.072
0138 14 00	M14	14.3	18	1.5	.001
0138 16 00	M16	16.3	20	1.5	.001
0138 18 00	M18	18.3	22	1.5	.001
0138 20 00	M20	20.3	24	1.5	.001
0138 22 00	M22	22.3	27	1.5	.002
0138 24 00	M24	24.3	29	2	.003
0138 26 00	M26	26.3	31	2	.003
0138 30 00	M30	30.3	36	2	.004
0138 36 00	M36	36.3	42	2	.005
0138 39 00	M39	39.3	44	2	.007
0138 52 00	M52	52.3	60	2	.009
0138 10 00	G1/8	10.3	13.5	1	.001
0138 13 00	G1/4	13.5	18	1.3	.001
0138 17 00	G3/8	17.3	21	1.5	.001
0138 21 00	G1/2	21.3	26	1.5	.002
0138 27 00	G3/4	27.3	32	2	.003
0138 33 00	G1	33.5	39	2	.005
0138 42 00	G1-1/4	42.5	49	2	.007
0138 60 00	G2	60	68	2.5	.014

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

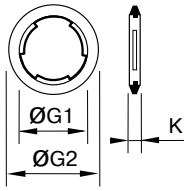




0139 Bi-Material Captive Sealing Washer BSPP

Part No.	C BSPP	G (mm)	G2 (mm)	K (mm)	Wt. (oz)
0139 10 00	G1/8	14	1	1.8	.001
0139 13 00	G1/4	17	1	1.8	.001
0139 17 00	G3/8	22	1.3	2.1	.001
0139 21 00	G1/2	26	1.6	2.4	.002
0139 27 00	G3/4	32	1.6	2.4	.002
0139 34 00	G1	43	3.5	2.5	.002





0602 Captive Sealing Washer BSPP and M5

Part No.	C BSPP/M5	G1 (mm)	G2 (mm)	K (mm)	Wt. (oz)
0602 29 93 15	M5X0.8	5.2	7.8	1.5	.001
0602 23 10 20	G1/8	10.3	14	2	.001
0602 23 11 20	G1/4	13.7	17.5	2	.001
0602 23 12 20	G3/8	17.2	21	2	.001
0602 23 13 20	G1/2	21.5	25.5	2.5	.001
0602 27 32 20	G3/4	27	32	2.5	.001
0602 30 60 20	G1	33.8	39	3	.001

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



ISO PORT ADAPTERS

Parker's ISO Port Adapters meet dimensional requirements of ISO 6149-3.

Product Features:

- All brass construction
- Fluorocarbon O-ring
- NPTF, flare, hose barb, NTA end configurations

Markets:

- Industrial
- Construction
- Mobile
- Factory/process automation

Applications:

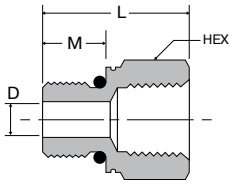
- Air Lines
- Water Line
- Cooling Line

Specifications:

Pressure Range	Dependent on tubing or hose end connection
Temperature Range	Dependent on tubing or hose end connection

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



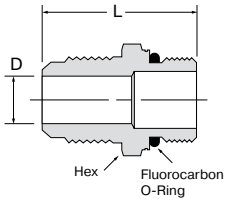


Pipe to Metric Adaptor 222P-X-MIX

Part No.	NPTF	Metric Thread	Hex	L	M	D
222P-2-MI10	1/8-27	M10 X 1.0	9/16	.75	.34	.18
222P-2-MI14	1/8-27	M14 X 1.5	3/4	.91	.43	.30
222P-4-MI12	1/4-18	M12 X 1.5	11/16	1.09	.43	.24
222P-4-MI14	1/4-18	M14 X 1.5	3/4	1.09	.43	.30
222P-6-MI16	3/8-18	M16 X 1.5	7/8	1.16	.45	.35
222P-6-MI22	3/8-18	M22 X 1.5	1 1/16	1.05	.51	.47
222P-8-MI27	1/2-14	M27 X 2.0	1 1/4	1.32	.63	.60

Note: Fluorocarbon o-ring is standard. For working pressure and Temperature see Metric Adapters Section



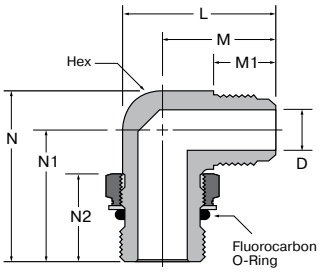


Flare to Metric Adaptor 48F-X-MIX

Part No.	Tube Size	Metric Thread	Hex	L	D
48F-8-MII6	1/2	M16 X 1.5	7/8	1.60	.35
48F-10-MI27	5/8	M27 X 2.0	1 1/4	1.87	.50
48F-12-MI27	3/4	M27 X 2.0	1 1/4	1.99	.63

Note: Fluorocarbon o-ring is standard. For working pressure and Temperature see SAE Flare Section





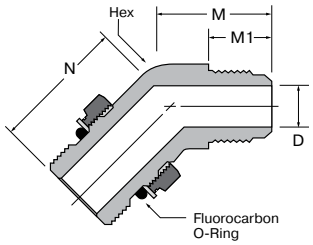
Flare Elbow to Metric Adaptor 149F-X-MIX

Part No.	Tube Size	Metric Thread	Hex	L	M	M1	N	N1	N2	D
149F-10-MI27	5/8	M27 X 2.0	7/8	1.95	1.46	.88	2.12	1.63	1.09	.50

Note: Fluorocarbon o-ring is standard. For working pressure and Temperature see SAE Flare Section

⚠ WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



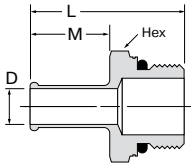


45˚ Flare Elbow to Metric Adaptor 159F-X-MIX

Part No.	Tube Size	Metric Thread	Hex	M	M1	N	D
159F-8-MII6	1/2	M16 X 1.5	13/16	1.10	.75	1.16	.36
159F-10-MI27	5/8	M27 X 2.0	1 1/8	1.21	.88	1.50	.50

Note: Fluorocarbon o-ring is standard. For working pressure and Temperature see SAE Flare Section



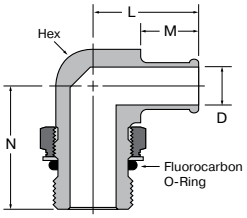


Hose Barb to Metric Adaptor 68HB-X-MIX

Part No.	Tube Size	Metric Thread	Hex	L	M	D
68HB-6-MI12	3/8	M12 X 1.5	11/16	1.50	.78	.24
68HB-6-MI14	3/8	M14 1.5	3/4	1.51	.78	.30
68HB-8-MI12	1/2	M12 X 1.5	11/16	1.50	.78	.24
68HB-10-MI27	5/8	M27 X 2.0	1 1/4	1.77	.78	.50

Note: Fluorocarbon o-ring is standard. For working pressure and Temperature see Hose Barb Section





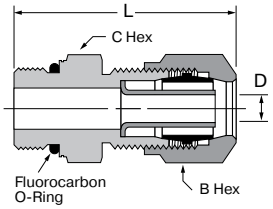
Beaded Elbow to Metric Adaptor 169HB-X-MIX

Part No.	Tube Size	Metric Thread	Hex	L	M	D	D
169HB-10-MI27	5/8	M27 X 2.0	7/8	1.41	.78	1.63	.50
169HB-16-MI27	1	M27 X 2.0	1	1.67	.97	1.68	.71

Note: Fluorocarbon o-ring is standard. For working pressure and Temperature see Hose Barb Section

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



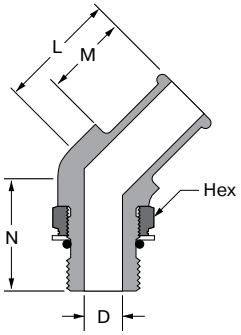


NTA to Metric Adaptor 68NTA-X-MIX

Part No.	Tube Size	Metric Thread	Hex	L	M	D
68NTA-4-MI10	1/4	M10 X 1.0	9/16	9/16	1.33	.140

Note: Fluorocarbon o-ring is standard. For working pressure and Temperature see Air Brake-NTA Section





Beaded Hose Barb 45° Elbow to Metric Thread 179HB-X-MIX

Part No.	Hose Size	Metric Thread	Hex	L	M	N	D
179HB-12-MI18	3/4	M18 X 1.5	13/16	1.15	.78	1.16	.44
179HB-16-MI27	1	M27 X 2.0	1 1/16	1.51	.97	1.71	.71

Note: Fluorocarbon o-ring is standard.

WARNING This product can expose you to chemicals including Lead and Lead Compounds which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



GARDEN HOSE FITTINGS

Parker's Garden Hose Fittings connect garden hose to other garden hose, to pipe or to tubing. Swivel connections allow hose to twist without kinking.

Product Features:

- All brass construction
- 3/4" garden hose thread
- Rubber washer
- Flare, hose barb and pipe end configurations
- High Flow couplings

Markets:

- Industrial
- Mobile
- Factory/process automation

Applications:

- Water Line

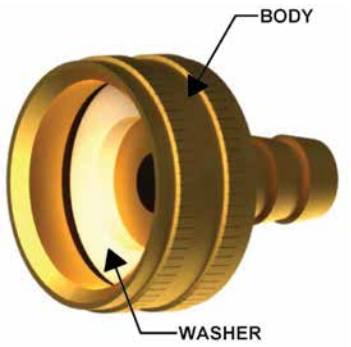
Specifications:

Pressure Range	Up to 150 PSI (10.3 bar)
Temperature Range	+35˚ to +100˚ F at 75 PSI (+1.6° to +37.7° C at 5.1 bar)

Compatible Tubing:

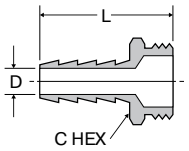
- Garden Hose

Note: 90Gh is intended for use with the 97HC hose clamp or crimped ferrule. All female connector ends should have a rubber washer(901GH-12) inserted prior to use.



WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

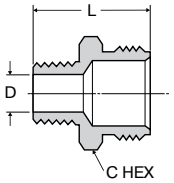




Hose Barb to Male Hose Thread 53GH,54GH & 55GH

Part No.	I.D. Hose Size	Hose Thread	C Hex	L	Flow Dia. D
53GH-8-12	1/2	3/4	1-1/16	1.88	.375
54GH-10-12	5/8	3/4	1-1/16	1.88	.500
55GH-12-12	3/4	3/4	1-1/16	1.88	.625

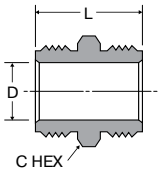




Male Hose to Male Pipe 69GH, 70GH, 71GH

Part No.	Hose Thread	Pipe Thread	C Hex	L	Flow Dia. D
69GH-12-4	3/4	1/4	1-1/16	1.25	.410
69GH-12-6	3/4	3/8	1-1/16	1.25	.406
70GH-12-8	3/4	1/2	1-1/16	1.39	.531
71GH-12-12	3/4	3/4	1-1/16	1.41	.750



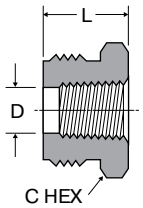


Male Hose to Male Hose 75GH

Part No.	Hose Thread	C Hex	L	Flow Dia. D
75GH-12	3/4	1-1/16	1.25	.750

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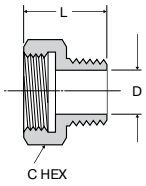




Male Hose to Female Pipe 78GH, 79GH, 80GH & 81GH

Part No.	Hose Thread	Pipe Thread	C Hex	L	Flow Dia. D
78GH-12-4	3/4	1/4	1-1/16	.75	.422
79GH-12-6	3/4	3/8	1-1/16	.75	.562
80GH-12-8	3/4	1/2	1-1/16	.75	.687
81GH-12-12	3/4	3/4	1-3/16	1.28	.719

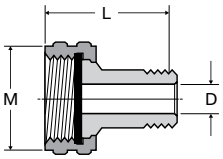




Female Hose to Male Pipe 82GH & 83GH

Part No.	Hose Thread	Pipe Thread	C Hex	L	Flow Dia. D
82GH-12-8	3/4	1/2	1-3/16	1.20	.562
83GH-12-12	3/4	3/4	1-3/16	1.22	.750

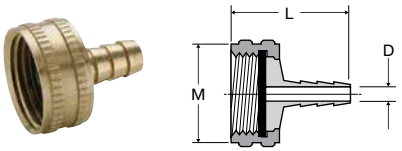




Swivel Connector Female Garden Hose to Male Pipe 88GH

Part No.	Hose Thread	Pipe Thread	L	M	Flow Dia. D
88GH-12-4	3/4	1/4	1.69	1.15	.312
88GH-12-6	3/4	3/8	1.69	1.15	.406

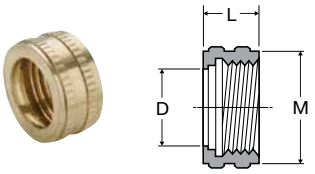
WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Swivel Connector Female Garden Hose to Hose Barb 90GH

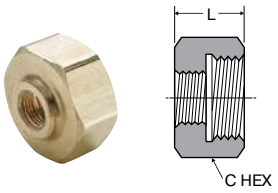
Part No.	Hose Thread	I.D. Hose Size	L	M	Flow Dia. D
90GH-12-3	3/4	3/16	1.29	1.15	.125
90GH-12-4	3/4	1/4	1.21	1.15	.187
90GH-12-6	3/4	3/8	1.21	1.15	.281
90GH-12-8	3/4	1/2	1.21	1.15	.375
90GH-12-10*	3/4	5/8	1.93	1.19	.500
90GH-12-12*	3/4	3/4	1.93	1.19	.625

*Denotes hex body



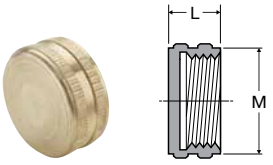
Knurled Hose Nut 94GH

Part No.	Hose Thread	L	M	Flow Dia. D
94GH-12	3/4	.57	1.15	.808



Hose Nut Reducer 95GH

Part No.	Hose Thread	Pipe Thread	C Hex	L
95GH-12-2	3/4	1/8	1-1/8	.63

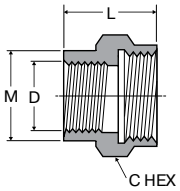


Hose Cap Nut 96GH

Part No.	Hose Thread	L	M
96GH-12	3/4	.50	1.15

WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

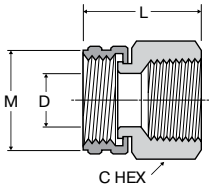




Female Hose to Female Pipe 98GH & 99GH

Part No.	Hose Thread	Pipe Thread	C Hex	L	M	Flow Dia. D
98GH-12-8	3/4	1/2	1-3/16	1.14	1.01	.687
99GH-12-12	3/4	3/4	1-3/16	1.25	1.17	.750

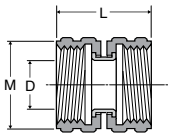




Swivel Connector Female Hose to Female Pipe 98GHSV & 99GHSV

Part No.	Hose Thread	Pipe Thread	C Hex	L	M	Flow Dia. D
98GHSV-12-8	3/4	1/2	1	1.27	1.21	.687
99GHSV-12-12	3/4	3/4	1-3/16	1.34	1.21	.687





Swivel Nut Connector 101GHSV

Part No.	Hose Thread	L	M	Flow Dia. D
101GHSV-12	3/4	1.25	1.15	.625



Rubber Garden Hose Coupling Washer 901GH

Part No.	Hose Thread
901GH-12	3/4

NOTE: All female connector ends should have this rubber washer

WARNING These products can expose you to chemicals including CARBON BLACK, or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Hydraulic Quick Couplings/High Flow Couplings

Applications

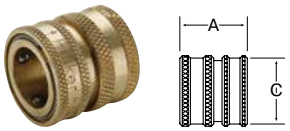
Parker Water Service Couplings are used anywhere water hoses are connected and disconnected frequently. They are used on a wide variety of applications including garden hoses, wash down systems, and mobile water tank lines. The unvalved design permits maximum flow with minimum pressure drop.

Specifications

- **Body Size** 3/4"
- **Rated Pressure** PSI 200 (13.7 bar)
- **Rated Flow** GPM 28
- **Temperature Range** (std seals) -40° to +250° F (-40° to 121.1° C)

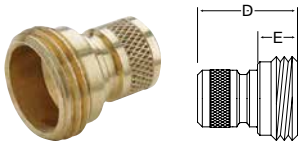
Features

- Brass and stainless steel construction for heavy duty service.
- Durable 4-ball locking mechanism for secure connections.
- Quality, temperature-resistant nitrile seals for a leak-free service life.



High Flow Coupler 1163-60-BPD

Part No.	Body Size	Thread Size NH	A	C
1163-60-BPD	3/4	3/4-11 1/2	1.12	1.21



High Flow Nipple 1163-61-BPD

Part No.	Body Size	Thread Size NH	D	E
1163-61-BPD	3/4	3/4-11 1/2	1.25	.5

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Notes



INDUSTRIAL VALVES

Ball Valves, Axial Valves, Needle Valves, Drain Cocks & Ground Plug Shutoffs

Parker

BALL VALVES
BRASS SERIES 500



Parker's industrial ball valves are intended for general purpose use. Ball valves are intended for use in the fully open or closed positions. Throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve
- VP-Valve, padlocking handle
- VV-Valve, vented
- VVP-Valve, vented, padlocking handle

Type:

- 500-Female/Female PTF ports

Material:

- P-Brass
- PN-Nickel plated

Options:

- 01-Stainless Steel Ball & Stem
- 02-Stainless Steel Handle & Nut
- 03-Stainless Steel Ball, Stem, Handle & Nut
- 04-Tee Handle
- 08-Unmarked yellow vinyl handle cover
- 21-Oval Handle

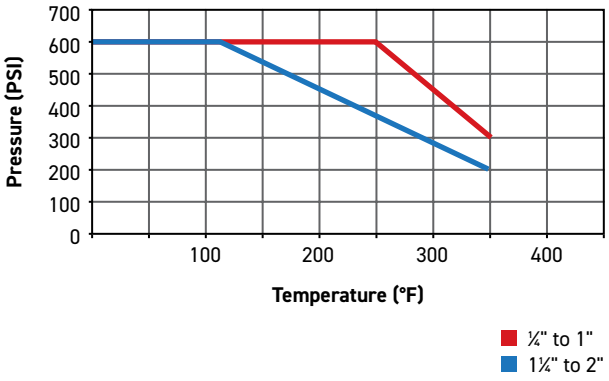
Specifications:

Pressure Range:

- 600 WOG , Cold Non-shock
- Saturated Steam up to 150 PSI (10.3 bar)
- Vacuum Service to 29 Inches Hg
- Vented up to 250 PSI (17.2 bar)

Temperature Range

- 0° to +350° F (-17.7° to +176.6° C)

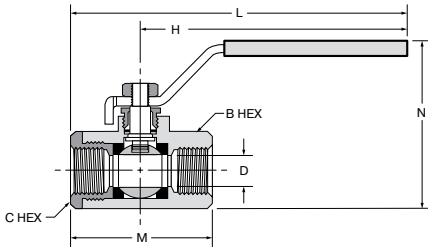


Flow Data			
Valve Size	CV	Valve Size	CV
1/4	4.0	1	35.0
3/8	5.8	1-1/4*	57.0
1/2	12.0	1-1/2*	92.0
3/4	25.0	2*	224.0

*For these part numbers only the * options are available.

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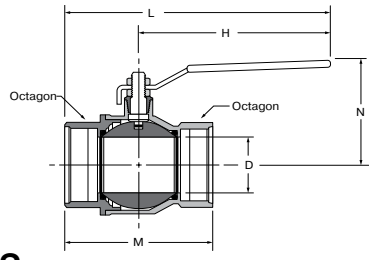




Female-Female Pipe Ends V500P

Part No.	Pipe Thd [PTF]	B Hex	C Hex	H	L	M	N	Flow Dia. D
V500P-4	1/4	15/16	15/16	3.96	4.90	2.03	2.47	.375
V500P-6	3/8	15/16	15/16	3.96	4.90	2.03	2.47	.375
V500P-8	1/2*	1-1/16	1-1/16	3.96	5.00	2.20	2.58	.500
V500P-12	3/4**	1-1/4	1-5/16	3.96	5.25	2.42	2.81	.685
V500P-16	1**	1-1/2	1-9/16	3.96	5.34	2.75	3.08	.875

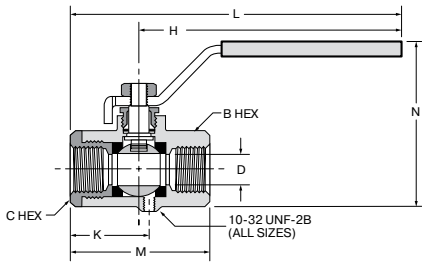




Female-Female Pipe Ends V500P-20, V500P-24, V500P-32

Part No.	Pipe Thd [NPT]	Octagon	H	L	M	N	Flow Dia. D
V500P-20	1-1/4	1.93	6.22	8.05	3.66	3.01	1.18
V500P-24	1-1/2	2.13	6.22	8.23	4.02	3.25	1.50
V500P-32	2	2.69	6.22	8.58	4.76	3.52	1.89





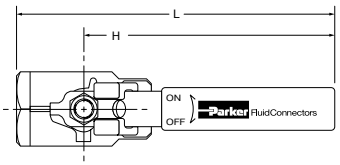
Vented, Female Pipe Ends VV500P

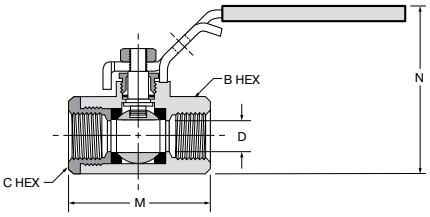
Part No.	Pipe Thd [PTF]	B Hex	C Hex	K	H	L	M	N	D Flow Ø
VV500P-4	1/4	15/16	15/16	1.11	3.96	4.90	2.03	2.47	.375
VV500P-6	3/8	15/16	15/16	1.11	3.96	4.90	2.03	2.47	.375
VV500P-8	1/2*	1-1/16	1-1/16	1.23	3.96	5.00	2.20	2.58	.500
VV500P-12	3/4**	1-1/4	1-5/16	1.45	3.96	5.25	2.42	2.81	.685
VV500P-16	1**	1-1/2	1-9/16	1.58	3.96	5.34	2.75	3.08	.875

*PTF Special Short. **PTF SPL Extra Short

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.







Locking Handle, Female Pipe Ends VP500P

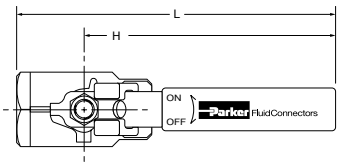
Part No.	Pipe Thd [PTF]	B Hex	C Hex	h	l	m	n	D Flow Ø
VP500P-4	1/4	15/16	15/16	3.96	4.90	2.03	2.47	.375
VP500P-6	3/8	15/16	15/16	3.96	4.90	2.03	2.47	.375
VP500P-8	1/2*	1-1/16	1-1/16	3.96	5.00	2.20	2.58	.500
VP500P-12	3/4**	1-1/4	1-5/16	3.96	5.25	2.42	2.81	.685
VP500P-16	1**	1-1/2	1-9/16	3.96	5.34	2.75	3.08	.875

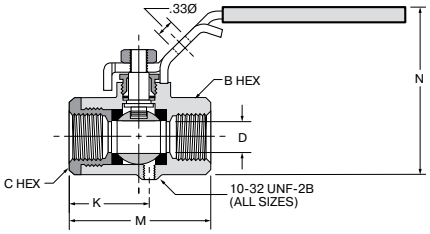
For use with 5/16" Ø shank lock; .33Ø

Part No.	Pipe Thd [PTF]	B Hex	C Hex	h	l	m	n	D Flow Ø
VP500P-20	1-1/4	1-15/16	1-15/16	6.22	8.05	3.66	4.04	1.180
VP500P-24	1-1/2	2-1/8	2-1/8	6.22	8.23	4.02	4.52	1.500
VP500P-32	2	2-11/16	2-11/16	6.22	8.60	4.76	5.07	1.890

For use with 9/32" Ø shank lock; .31Ø







OSHA 29 CFR Part 1910 Vented, Locking Handle, Female Pipe Ends VVP500P

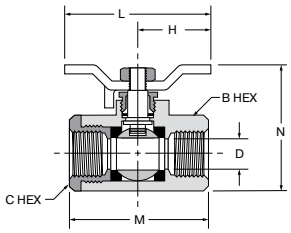
Part No.	Pipe Thd [PTF]	B Hex	C Hex	K	H	L	M	N	D Flow Ø
VVP500P-4	1/4	15/16	15/16	1.11	3.96	4.90	2.03	2.47	.375
VVP500P-6	3/8	15/16	15/16	1.11	3.96	4.90	2.03	2.47	.375
VVP500P-8	1/2*	1-1/16	1-1/16	1.23	3.96	5.00	2.20	2.58	.500
VVP500P-12	3/4**	1-1/4	1-5/16	1.45	3.96	5.25	2.42	2.81	.685
VVP500P-16	1**	1-1/2	1-9/16	1.58	3.96	5.34	2.75	3.08	.875

For use with 5/16" Ø shank lock

*PTF Special Short. **PTF SPL Extra Short

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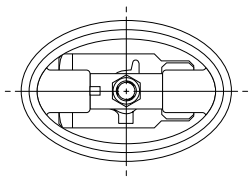


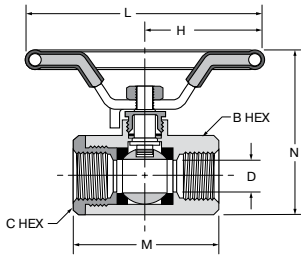


Tee Handle, Female Pipe Ends V500P-X-04

Part No.	Pipe Thd [PTF]	B Hex	C Hex	H	L	M	N	D Flow Ø
V500P-4-04	1/4	15/16	15/16	1.25	2.50	2.03	1.87	.375
V500P-6-04	3/8	15/16	15/16	1.25	2.50	2.03	1.87	.375
V500P-8-04	1/2*	1-1/16	1-1/16	1.25	2.50	2.20	1.98	.500
V500P-12-04	3/4**	1-1/4	1-5/16	1.25	2.50	2.42	2.20	.685
V500P-16-04	1**	1-1/2	1-9/16	1.25	2.50	2.75	2.48	.875







Oval Handle, Female Pipe Ends V500P-X-21

Part No.	Pipe Thd [PTF]	B Hex	C Hex	H	L	M	N	D Flow Ø
V500P-4-21	1/4	15/16	15/16	1.74	3.49	2.03	2.38	.375
V500P-6-21	3/8	15/16	15/16	1.74	3.49	2.03	2.38	.375
V500P-8-21	1/2*	1-1/16	1-1/16	1.74	3.49	2.20	2.49	.500
V500P-12-21	3/4**	1-1/4	1-5/16	1.74	3.48	2.42	2.71	.685
V500P-16-21	1**	1-1/2	1-9/16	1.74	3.48	2.75	2.99	.875

*PTF Special Short. **PTF SPL Extra Short

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BALL VALVES
BRASS SERIES 501



Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve
- VP-Valve, padlocking handle
- VV-Valve, vented
- VVP-Valve,vented, padlocking handle

Type:

- 501-Male/Female PTF ports

Material:

- P-Brass
- PN-Nickel plated

Options:

- 01-Stainless Steel Ball & Stem
- 02-Stainless Steel Handle & Nut
- 03-Stainless Steel Ball, Stem, Handle & Nut
- 04-Tee Handle
- 08-Unmarked yellow vinyl handle cover
- 21-Oval Handle

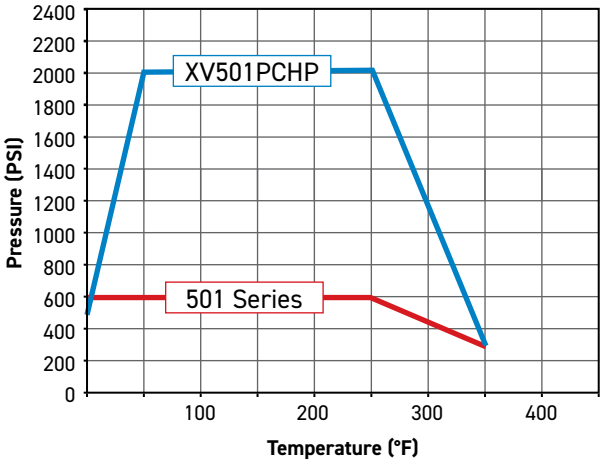
Specifications:

Pressure Range:

- 600 WOG , Cold Non-shock
- Saturated Steam up to 150 PSI (10.3 bar)
- Vacuum Service to 29 Inches Hg
- Vented up to 250 PSI (17.2 bar)
- XV501PCHP up to 2000PSI (137.8 bar)

Temperature Range

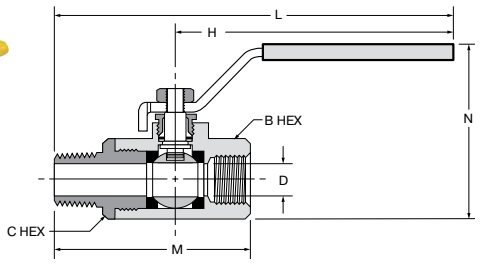
- 0˚ to +350˚ F (-17.7° to +176.6° C)



Flow Data			
Valve Size	CV	Valve Size	CV
1/4	6.3	3/4	25.0
3/8	5.7	1	35.0
1/2	10.0		

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

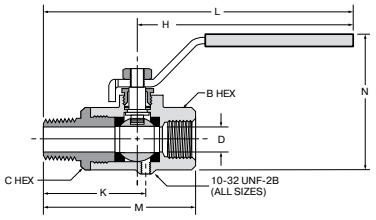




Male-Female Pipe Ends V501P

Part No.	Female Pipe Thrd [PTF]	Male Pipe Thrd [NPTF]	B Hex	C Hex	H	L	M	N	D Flow Ø
V501P-4	1/4	1/4	15/16	15/16	3.96	5.46	2.59	2.47	.344
V501P-6	3/8	3/8	15/16	15/16	3.96	5.46	2.59	2.47	.375
V501P-8	1/2*	1/2	1-1/16	1-1/16	3.96	5.75	2.94	2.58	.500
V501P-12	3/4**	3/4*	1-1/4	1-5/16	3.96	5.83	3.00	2.81	.685
V501P-16	1**	1*	1-1/2	1-9/16	3.96	6.19	3.60	3.08	.875





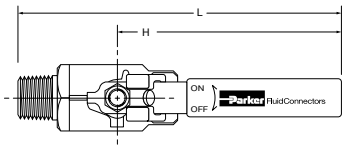
Vented, Male-Female Pipe Ends VV501P

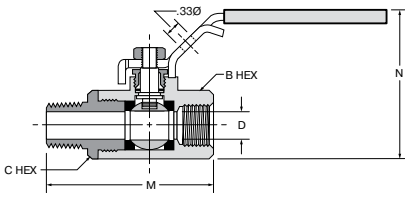
Part No.	Female Pipe Thrd [PTF]	Male Pipe Thrd [NPTF]	B Hex	C Hex	K	H	L	M	N	D Flow Ø
VV501P-4	1/4	1/4	15/16	15/16	1.67	3.96	5.46	2.59	2.47	.344
VV501P-6	3/8	3/8	15/16	15/16	1.67	3.96	5.46	2.59	2.47	.375
VV501P-8	1/2*	1/2	1-1/16	1-1/16	1.98	3.96	5.75	2.95	2.58	.500
VV501P-12	3/4**	3/4*	1-1/4	1-5/16	2.03	3.96	5.83	3.00	2.81	.685
VV501P-16	1**	1*	1-1/2	1-9/16	2.43	3.96	6.19	3.60	3.08	.875

*PTF Special Short. **PTF SPL Extra Short

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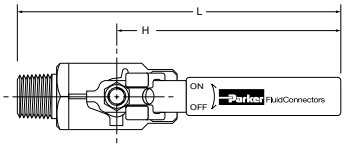


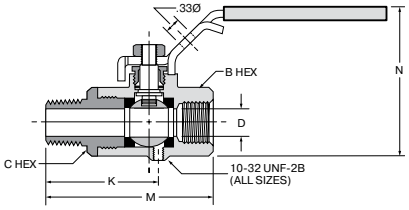
Locking Handle, Male-Female Pipe Ends VP501P

Part No.	Female Pipe Thrd [PTF]	Male Pipe Thrd [NPTF]	B Hex	C Hex	H	L	M	N	D Flow Ø
VP501P-4	1/4	1/4	15/16	15/16	3.96	5.46	2.59	2.47	.344
VP501P-6	3/8	3/8	15/16	15/16	3.96	5.46	2.59	2.47	.375
VP501P-8	1/2*	1/2	1-1/16	1-1/16	3.96	5.75	2.95	2.58	.500
VP501P-12	3/4**	3/4*	1-1/4	1-5/16	3.96	5.83	3.00	2.81	.685
VP501P-16	1**	1*	1-1/2	1-9/16	3.96	6.19	3.60	3.08	.875

For use with 5/16" Ø shank lock







OSHA 29 CFR Part 1910 Vented, Locking Handle, Male-Female Pipe Ends VVP501P

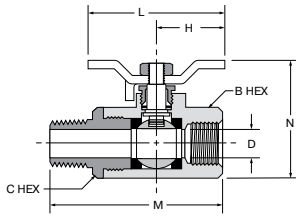
Part No.	Female Pipe Thrd [PTF]	Male Pipe Thrd [NPTF]	B Hex	C Hex	K	H	L	M	N	D Flow Ø
VVP501P-4	1/4	1/4	15/16	15/16	1.67	3.96	5.46	2.59	2.47	.344
VVP501P-6	3/8	3/8	15/16	15/16	1.67	3.96	5.46	2.59	2.47	.375
VVP501P-8	1/2*	1/2	1-1/16	1-1/16	1.98	3.96	5.75	2.95	2.58	.500
VVP501P-12	3/4**	3/4	1-1/4	1-5/16	2.03	3.96	5.83	3.00	2.81	.685
VVP501P-16	1**	1	1-1/2	1-9/16	2.43	3.96	6.19	3.60	3.08	.875

For use with 5/16" Ø shank lock

*PTF Special Short. **PTF SPL Extra Short

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

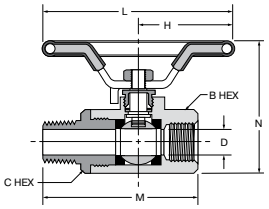




Tee Handle, Male-Female Pipe Ends V501P-X-04

Part No.	Female Pipe Thrd [PTF]	Male Pipe Thrd [NPTF]	B Hex	C Hex	H	L	M	N	D Flow Ø
V501P-4-04	1/4	1/4	15/16	15/16	1.25	2.50	2.59	1.87	.344
V501P-6-04	3/8	3/8	15/16	15/16	1.25	2.50	2.59	1.87	.375
V501P-8-04	1/2*	1/2	1-1/16	1-1/16	1.25	2.50	2.95	1.98	.500
V501P-12-04	3/4**	3/4	1-1/4	1-5/16	1.25	2.50	3.00	2.20	.685
V501P-16-04	1**	1	1-1/2	1-9/16	1.25	2.50	3.60	2.48	.875

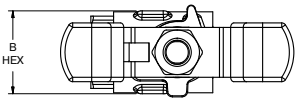


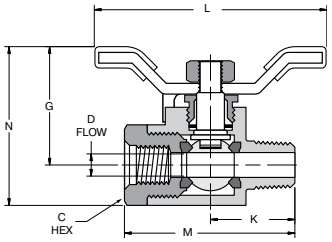


Oval Handle, Male-Female Pipe Ends V501P-X-21

Part No.	Female Pipe Thrd [PTF]	Male Pipe Thrd [NPTF]	B Hex	C Hex	H	L	M	N	D Flow Ø
V501P-4-21	1/4	1/4	15/16	15/16	1.74	3.49	2.59	2.38	.344
V501P-6-21	3/8	3/8	15/16	15/16	1.74	3.49	2.59	2.38	.375
V501P-8-21	1/2*	1/2	1-1/16	1-1/16	1.74	3.49	2.95	2.49	.500
V501P-12-21	3/4**	3/4	1-1/4	1-5/16	1.74	3.48	3.00	2.71	.685
V501P-16-21	1**	1	1-1/2	1-9/16	1.74	3.48	3.60	2.99	.875







Compact High Pressure XV501PCHP

Part No.	Female Pipe Thrd [PTF]	Male Pipe Thrd [NPTF]	B Hex	C Hex	G	K	L	M	N	D Flow Ø
XV501PCHP-4	1/4	1/4	15/16	13/16	1.33	.95	2.62	1.92	1.79	.25

*PTF Special Short. **PTF SPL Extra Short

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BALL VALVES
BRASS SERIES 502



Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve
- VP-Valve, padlocking handle
- VV-Valve, vented
- VVP-Valve, vented, padlocking handle

Type:

- 502-Female/Female PTF ports

Material:

- P-Brass
- PN-Nickel plated

Options:

- 01-Stainless Steel Ball & Stem
- 02-Stainless Steel Handle & Nut
- 03-Stainless Steel Ball, Stem, Handle & Nut
- 04-Tee Handle
- 08-Unmarked yellow vinyl handle cover
- 21-Oval Handle

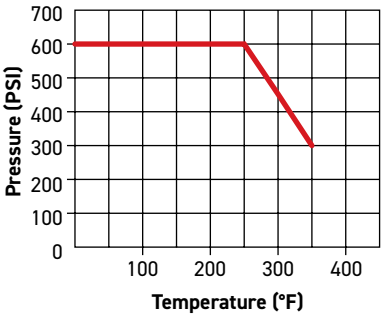
Specifications:

Pressure Range:

- 600 WOG , Cold Non-shock
- Saturated Steam up to 150 PSI (10.3 bar)
- Vacuum Service to 29 Inches Hg
- Vented up to 250 PSI (17.2 bar)

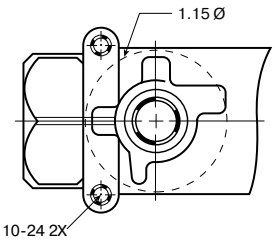
Temperature Range

- 0˚ to +350˚ F (-17.7° to +176.6° C)



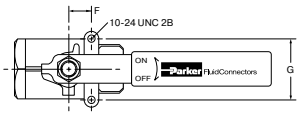
Flow Data	
Valve Size	CV
1/4	4.0
3/8	5.8
1/2	12.0
3/4	25.0
1	35.0

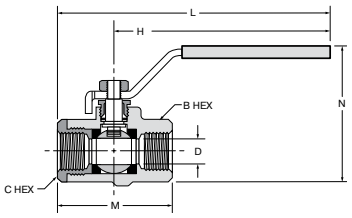
Mounting detail for all sizes



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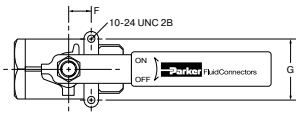


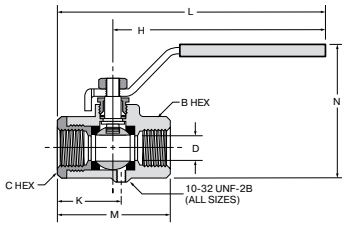


Female-Female Pipe Ends, Panel Mount V502P

Part No.	Pipe Thd [PTF]	B Hex	C Hex	F	G	H	L	M	N	Flow Dia. D
V502P-4	1/4	15/16	15/16	.50	1.12	3.96	4.90	2.03	2.47	.375
V502P-6	3/8	15/16	15/16	.50	1.12	3.96	4.90	2.03	2.47	.375
V502P-8	1/2*	1-1/16	1-1/16	.50	1.12	3.96	5.06	2.20	2.58	.500
V502P-12	3/4**	1-1/4	1-5/16	.87	1.37	3.96	5.25	2.42	2.81	.685
V502P-16	1**	1-1/2	1-9/16	.87	1.37	3.96	5.34	2.75	3.08	.875



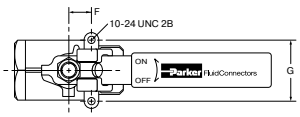


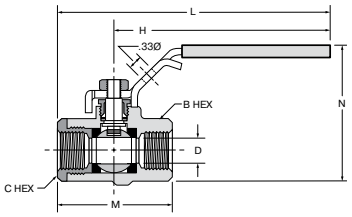


Vented, Female-Female Pipe Ends, Panel Mount VV502P

Part No.	Pipe Thd [PTF]	B Hex	C Hex	F	G	K	H	L	M	N	D Flow Ø
VV502P-4	1/4	15/16	15/16	.50	1.12	1.11	3.96	4.90	2.03	2.47	.375
VV502P-6	3/8	15/16	15/16	.50	1.12	1.11	3.96	4.90	2.03	2.47	.375
VV502P-8	1/2*	1-1/16	1-1/16	.50	1.12	1.23	3.96	5.06	2.20	2.58	.500
VV502P-12	3/4**	1-1/4	1-5/16	.87	1.37	1.45	3.96	5.25	2.42	2.81	.685
VV502P-16	1**	1-1/2	1-9/16	.87	1.37	1.58	3.96	5.34	2.75	3.08	.875







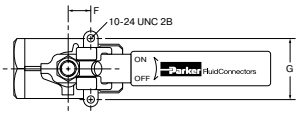
Locking Handle, Female Pipe Ends, Panel Mount VP502P

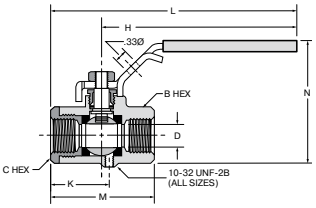
Part No.	Pipe Thd [PTF]	B Hex	C Hex	F	G	H	L	M	N	D Flow Ø
VP502P-4	1/4	15/16	15/16	.50	1.12	3.96	4.90	2.03	2.47	.375
VP502P-6	3/8	15/16	15/16	.50	1.12	3.96	4.90	2.03	2.47	.375
VP502P-8	1/2*	1-1/16	1-1/16	.50	1.12	3.96	5.06	2.20	2.58	.500
VP502P-12	3/4**	1-1/4	1-5/16	.87	1.37	3.96	5.25	2.42	2.81	.685
VP502P-16	1**	1-1/2	1-9/16	.87	1.37	3.96	5.34	2.75	3.08	.875

For use with 5/16" Ø shank lock
*PTF Special Short. **PTF SPL Extra Short

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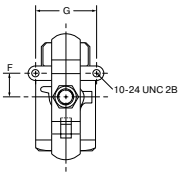


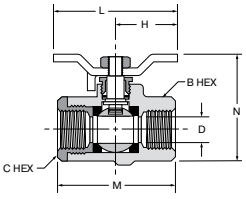
OSHA 29 CFR Part 1910 Vented, Locking Handle, Female Pipe Ends, Panel Mount VVP502P

Part No.	Pipe Thd [PTF]	B Hex	C Hex	F	G	K	H	L	M	N	D Flow Ø
VVP502P-4	1/4	15/16	15/16	.50	1.12	1.11	3.96	4.90	2.03	2.47	.375
VVP502P-6	3/8	15/16	15/16	.50	1.12	1.11	3.96	4.90	2.03	2.47	.375
VVP502P-8	1/2*	1-1/16	1-1/16	.50	1.12	1.23	3.96	5.06	2.20	2.58	.500
VVP502P-12	3/4**	1-1/4	1-5/16	.87	1.37	1.45	3.96	5.25	2.42	2.81	.685
VVP502P-16	1**	1-1/2	1-9/16	.87	1.37	1.58	3.96	5.34	2.75	3.08	.875

For use with 5/16" Ø shank lock



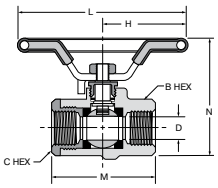




Tee Handle, Female Pipe Ends, Panel Mount V502P-X-04

Part No.	Pipe Thd [PTF]	B Hex	C Hex	F	G	H	L	M	N	D Flow Ø
V502P-4-04	1/4	15/16	15/16	.50	1.12	1.25	2.50	2.03	1.87	.375
V502P-6-04	3/8	15/16	15/16	.50	1.12	1.25	2.50	2.03	1.87	.375
V502P-8-04	1/2*	1-1/16	1-1/16	.50	1.12	1.25	2.50	2.20	1.98	.500
V502P-12-04	3/4**	1-1/4	1-5/16	.87	1.37	1.25	2.50	2.42	2.20	.685
V502P-16-04	1**	1-1/2	1-9/16	.87	1.37	1.25	2.50	2.75	2.48	.875





Oval Handle, Female Pipe Ends, Panel Mount V502P-X-21

Part No.	Pipe Thd [PTF]	B Hex	C Hex	H	L	M	N	D Flow Ø
V502P-4-21	1/4	15/16	15/16	1.74	3.49	2.03	2.38	.375
V502P-6-21	3/8	15/16	15/16	1.74	3.49	2.03	2.38	.375
V502P-8-21	1/2*	1-1/16	1-1/16	1.74	3.49	2.20	2.49	.500
V502P-12-21	3/4**	1-1/4	1-5/16	1.74	3.48	2.42	2.71	.685
V502P-16-21	1**	1-1/2	1-9/16	1.74	3.48	2.75	2.99	.875

*PTF Special Short. **PTF SPL Extra Short

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BALL VALVE
BRASS SERIES 506



Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve
- VP-Valve, padlocking handle

Type:

- 506-Female/Female SAE J1926-1 Ports

Material:

- P-Brass
- PN-Nickel plated

Options:

- 01-Stainless Steel Ball & Stem
- 02-Stainless Steel Handle & Nut
- 03-Stainless Steel Ball, Stem, Handle & Nut
- 04-Tee Handle
- 08-Unmarked yellow vinyl handle cover
- 21-Oval Handle

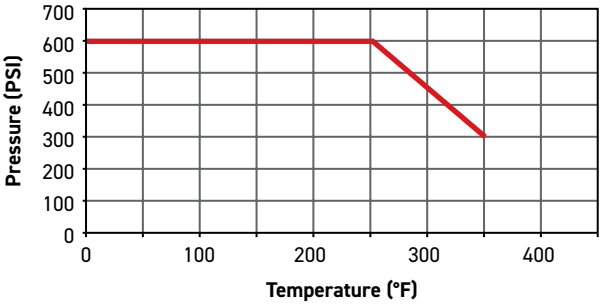
Specifications:

Pressure Range:

- 600 WOG , Cold Non-shock
- Saturated Steam up to 150 PSI (10.3 bar)
- Vacuum Service to 29 Inches Hg

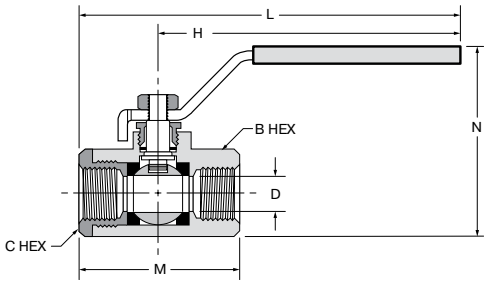
Temperature Range

- 0˚ to +350˚ F (-17.7° to +176.6° C)



WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

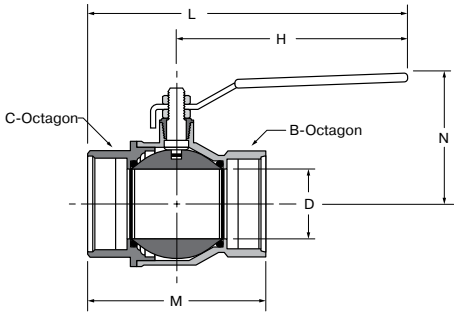




Female/Female, Straight Thread O-Ring Port V506P

Part No.	Straight Thd	B Hex	C Hex	H	L	M	N	D Flow Ø
V506P-4	7/16-20	15/16	15/16	3.96	5.01	2.20	2.47	.375
V506P-6	9/16-18	15/16	15/16	3.96	5.07	2.26	2.47	.375
V506P-8	3/4-16	1-1/16	1-1/16	3.96	5.18	2.42	2.60	.500
V506P-12	1-1/16-12	1-1/4	1-5/16	3.96	5.87	3.46	2.81	.685
V506P-16	1-5/16-12	1-1/2	1-9/16	3.96	5.96	3.68	3.08	.875





Female/Female, Straight Thread O-Ring Port V506P-20, V506P-24, V506P-32

Part No.	Straight Thd	B Oct	C Oct	H	L	M	N	D Flow Ø
V506P-20	1 5/8-12	1.93	1.93	6.22	8.05	3.66	3.01	1.18
V506P-24	1 7/8-12	2.13	2.13	6.22	8.23	4.02	3.25	1.50
V506P-32	2 1/2-12	2.85	2.85	6.22	8.60	4.76	3.52	1.89

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

BALL VALVES
BRASS SERIES 509



Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve

Type:

- 509-Solder Ends

Material:

- P-Brass

Flow Data	
Valve Size	CV
1/2"	26
3/4"	69
1"	91
1 1/4"	127
1 1/2"	299
2"	425

* For these part numbers only the * options are available.

Specifications:

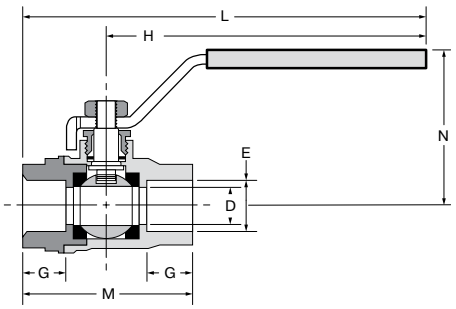
Pressure Range:

- 600 WOG , Cold Non-shock
- Saturated Steam up to 150 PSI (10.3 bar)

Temperature Range

- Nylon: 0˚ to +350˚ F (-17.7° to +176.6° C)
- Solder temperature not to exceed 470˚ F (243.3° C)





Solder Cup Ends V509P

Part No.	Tube Size	E	G	H	L	M	N	Flow Dia. D
V509P-8	1/2	.630	.49	3.94	5.00	2.24	1.69	.55
V509P-12	3/4	.877	.75	4.72	6.10	2.85	1.97	.75
V509P-16	1	1.128	.90	4.72	6.40	3.35	2.13	.94
V509P-20	1 1/4	1.378	.96	6.22	8.13	3.82	3.01	1.18
V509P-24	1 1/2	1.628	1.10	6.22	8.46	4.49	3.25	1.50
V509P-32	2	2.128	1.34	6.22	8.94	5.43	3.52	1.89

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BALL VALVES
BRASS SERIES 510



Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve
- VP-Valve, padlocking handle

Type:

- 510-Male/Female Straight Thread O-ring SAE J1926

Material:

- P-Brass

Options:

- 01-Stainless Steel Ball & Stem
- 02-Stainless Steel Handle & Nut
- 03-Stainless Steel Ball, Stem, Handle & Nut
- 04-Tee Handle
- 08-Unmarked yellow vinyl handle cover
- 21-Oval Handle

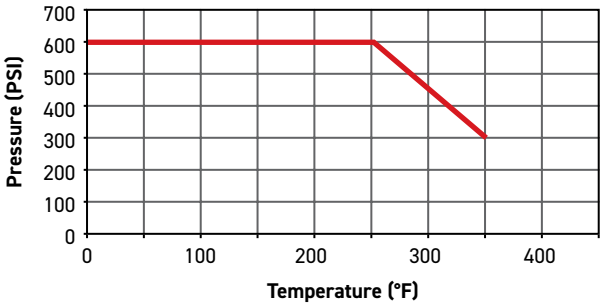
Specifications:

Pressure Range:

- 600 WOG , Cold Non-shock
- Saturated Steam up to 150 PSI (10.3 bar)
- Vacuum Service to 29 Inches Hg
- Vented up to 250 PSI (17.2 bar)

Temperature Range

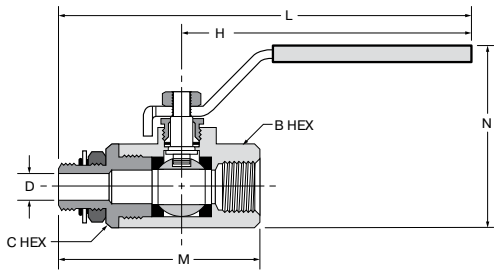
- 0˚ to +350˚ F (-17.7° to +176.6° C)



Flow Data	
Valve Size	CV
1/4	.8
3/8	2.1
1/2	5.3
5/8	7.6
3/4	13.0
1	33.0

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

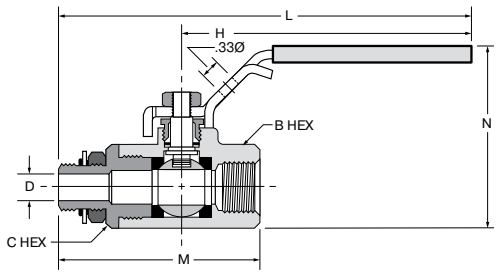




Male-Female, Straight Thread O-Ring Port V510P

Part No.	Straight Thd	B Hex	C Hex	H	L	M	N	D Flow Ø
V510P-4	7/16-20	15/16	15/16	3.96	5.61	2.85	2.47	.188
V510P-6	9/16-18	15/16	15/16	3.96	5.68	2.92	2.47	.281
V510P-8	3/4-16	1-1/16	1-1/16	3.96	5.88	3.17	2.58	.422
V510P-10	7/8-14	1-1/4	1-5/16	3.96	6.31	3.90	2.81	.500
V510P-12	1-1/16-12	1-1/4	1-5/16	3.96	6.44	4.03	2.81	.656
V510P-16	1-5/16-12	1-1/2	1-9/16	3.96	6.56	4.28	3.08	.875





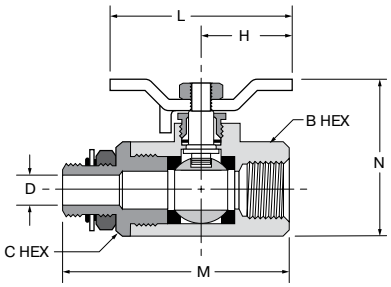
Locking Handle, Straight Thread O-Ring Port VP510P

Part No.	Straight Thd	B Hex	C Hex	H	L	M	N	D Flow Ø
VP510P-4	7/16-20	15/16	15/16	3.96	5.61	2.85	2.47	.188
VP510P-6	9/16-18	15/16	15/16	3.96	5.68	2.92	2.47	.281
VP510P-8	3/4-16	1-1/16	1-1/16	3.96	5.88	3.17	2.58	.422
VP510P-10	7/8-14	1-1/4	1-5/16	3.96	6.31	3.90	2.81	.500
VP510P-12	1-1/16-12	1-1/4	1-5/16	3.96	6.44	4.03	2.81	.656

For use with 5/16" Ø shank lock

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

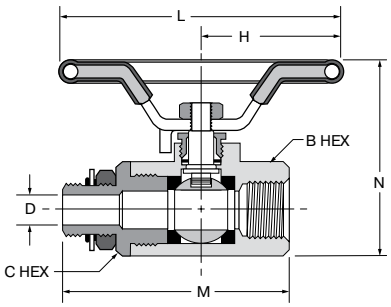




Tee Handle, Straight Thread O-Ring Port V510P-X-04

Part No.	Straight Thd	B Hex	C Hex	H	L	M	N	D Flow Ø
V510P-4-04	7/16-20	15/16	15/16	1.25	2.50	2.85	1.87	.188
V510P-6-04	9/16-18	15/16	15/16	1.25	2.50	2.92	1.87	.281
V510P-8-04	3/4-16	1-1/16	1-1/16	1.25	2.50	3.17	1.98	.422
V510P-10-04	7/8-14	1-1/4	1-5/16	1.25	2.50	3.90	2.20	.500
V510P-12-04	1-1/16-12	1-1/4	1-5/16	1.25	2.50	4.03	2.20	.656
V510P-16-04	1-5/16-12	1-1/2	1-9/16	1.25	2.50	4.28	2.48	.875





Oval Handle, Straight Thread O-Ring Port V510P-X-21

Part No.	Straight Thd	B & C Hex	H	L	M	N	D Flow Ø
V510P-4-21	7/16-20	15/16	1.74	3.49	2.85	2.38	.188
V510P-6-21	9/16-18	15/16	1.74	3.49	2.92	2.38	.281
V510P-8-21	3/4-16	1 1/16	1.74	3.49	3.17	2.49	.422
V510P-12-21	1-1/16-12	1-1/4 (B) 1-5/16 (C)	1.75	3.49	4.03	2.71	.656

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

BALL VALVES
BRASS SERIES 520



Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Fluorocarbon Stem O-rings
- Steel handle

Style:

- V-Valve
- VP-Valve, padlocking handle

Type:

- 520-Female/Female NPT Ports

Material:

- P-Brass

Options:

- 04-Tee Handle

Specifications:

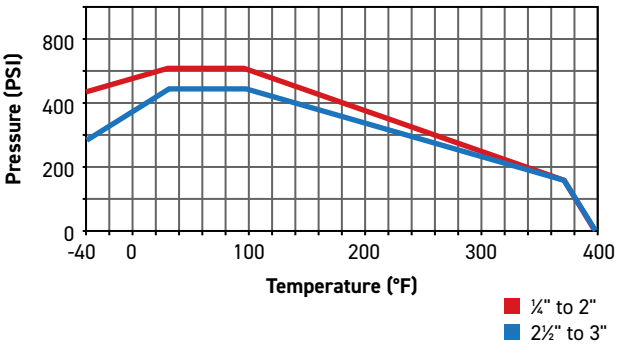
Pressure Range:

- 600 WOG Cold Non-shock 1/4" – 2"
- 450 WOG, Cold Non-shock 2 1/2" – 3"
- Saturated Steam up to 150 PSI (10.3 bar)
- Vacuum Service to 29 Inches Hg

Temperature Range

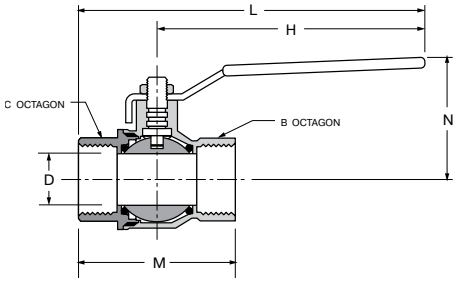
- -40˚ to +350˚ F (-40° to +176.6° C)

U.L. LISTED	
Category	
YSDT	LP-GAS SHUT-OFF VALVES
YRBX	FLAMMABLE LIQUID SHUT-OFF VALVES
YRPV	GAS SHUT-OFF VALVES
YQNZ	COMPRESSED GAS SHUT-OFF VALVES



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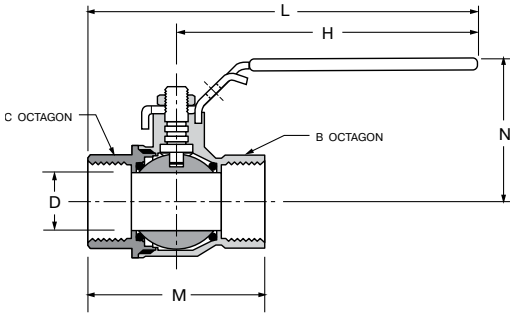




Female Pipe Ends V520P

Part No.	Pipe Thd [NPT]	B Octagon	C Octagon	H	L	M	N	D Flow Ø
V520P-4	1/4-18	.67	.67	3.94	4.83	1.77	1.50	.310
V520P-6	3/8-18	.79	.79	3.94	4.83	1.77	1.50	.400
V520P-8	1/2-14	.98	.98	3.94	5.10	2.32	1.69	.600
V520P-12	3/4-14	1.22	1.22	4.72	5.98	2.52	1.97	.790
V520P-16	1-11.5	1.57	1.57	4.72	6.32	3.19	2.13	1.000
V520P-20	1-1/4	1.93	1.93	6.22	8.05	3.66	2.82	1.180
V520P-24	1-1/2	2.13	2.13	6.22	8.23	4.02	3.06	1.570
V520P-32	2	2.69	2.69	6.22	8.58	4.76	3.33	2.000
V520P-40	2-1/2	3.35	3.35	10.04	13.11	6.14	5.20	2.520
V520P-48	3	3.89	3.89	10.04	13.52	6.97	5.51	3.000





Locking Handle, Female Pipe Ends VP520P

Part No.	Pipe Thd [NPT]	B Octagon	C Octagon	H	L	M	N	D Flow Ø
VP520P-4	1/4-18	.67	.67	3.94	4.83	1.77	1.50	.310
VP520P-6	3/8-18	.79	.79	3.94	4.83	1.77	1.50	.400
VP520P-8	1/2-14	.98	.98	3.94	5.10	2.32	1.69	.600
VP520P-12	3/4-14	1.22	1.22	4.72	5.98	2.52	1.97	.790
VP520P-16	1-11.5	1.57	1.57	4.72	6.32	3.19	2.13	1.000
VP520P-20	1-1/4	1.93	1.93	6.22	8.05	3.66	2.82	1.180
VP520P-24	1-1/2	2.13	2.13	6.22	8.23	4.02	3.06	1.570
VP520P-32	2	2.69	2.69	6.22	8.58	4.76	3.33	2.000

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



BALL VALVES BRASS SERIES 533 3-WAY DIVERSION/ SERIES 540 4-WAY

Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve
- VP-Valve, padlocking handle

Type:

- 533 3-Way Diversion
- 540 4-Way

Material:

- P-Brass

Options:

- 02-Stainless Steel Handle & Nut
- 08-Unmarked yellow vinyl handle cover

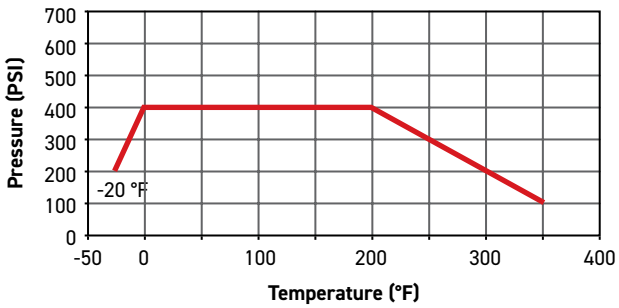
Specifications:

Pressure Range:

- 400 PSI (27.5 bar)
- Vacuum Service to 29 Inches Hg

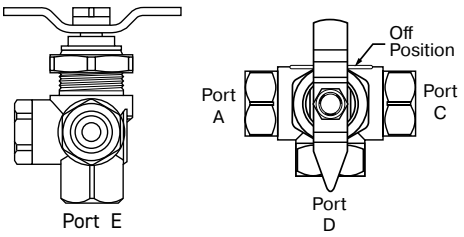
Temperature Range

- -20˚ to +350˚ F (-6.6° to +176.6° C)

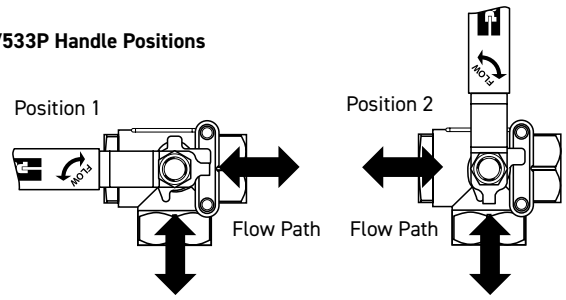


V540P Flow Information	
Pointer Over	Flow Path
A	A to E
Off	CLOSED
C	C to E
D	D to E

V540P Handle Positions

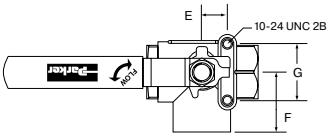


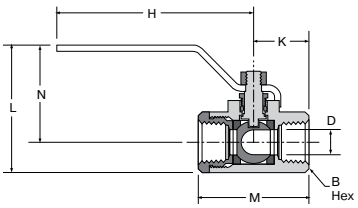
V533P Handle Positions



WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



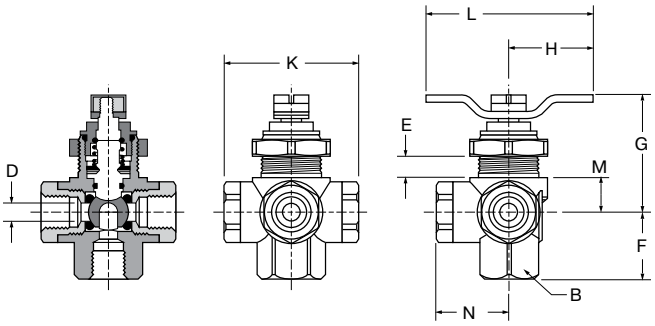




Female-Female-Female Pipe Ends V533P

Part No.	Pipe Thd (PTF)	B Hex	E	F	G	H	K	L	M	N	Flwo Dia. D
V533P-4	1/4	15/16	.50	1.08	1.12	3.96	1.03	2.47	2.03	1.94	.375
V533P-6	3/8	15/16	.50	1.08	1.12	3.96	1.03	2.47	2.03	1.94	.375
V533P-8	1/2	1-1/16	.50	1.18	1.12	3.96	1.11	2.58	2.20	1.98	.500
V533P-12	3/4	1-1/4	.87	1.43	1.37	3.96	1.42	2.90	2.83	2.17	.685
V533P-16	1	1-9/16	.87	1.62	1.37	3.96	1.58	3.21	3.16	2.32	.875





Female-Female-Female-Female Pipe Ends V540P

Part No.	Pipe Thd (PTF)	B Hex	E	F	G	H	K	L	M	N	Flwo Dia. D
V540P-4	1/4	7/8	.32	1.00	1.76	1.25	1.98	2.49	.52	1.07	.250

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



BALL VALVES
BRASS SERIES 590/591

Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve

Type:

- 590-Male/Female
- 591-Male/Female

Material:

- P-Brass

Options:

- 04-Lever Handle
- 08-Unmarked yellow vinyl handle cover

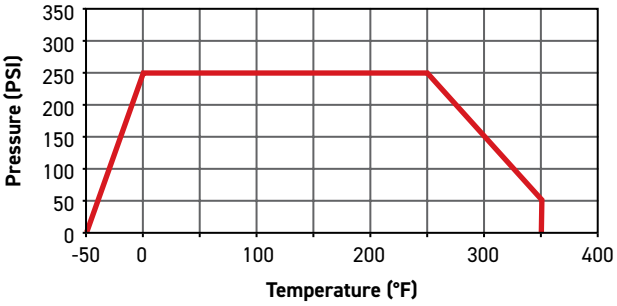
Specifications:

Pressure Range:

- 250 PSI (17.2 bar)
- Saturated Steam up to 150 PSI (10.3 bar)
- Vacuum Service to 29 Inches Hg

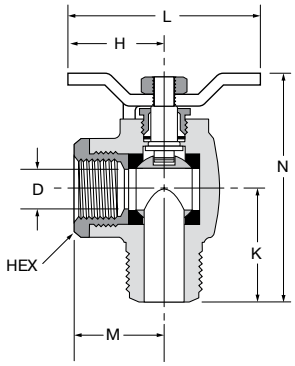
Temperature Range

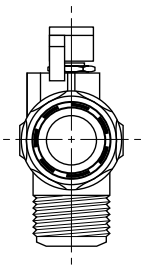
- -50˚ to +350˚ F (-45.5° to +176.6° C)



WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

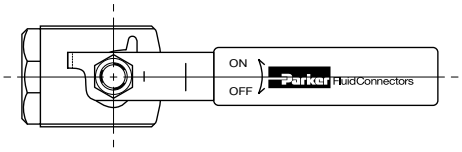




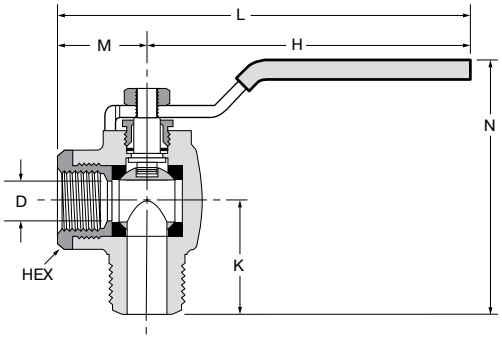


90° Flow, Male-Female Pipe Ends V590P

Part No.	Pipe PTF Thd	Hex	H	K	L	M	N	D Flow Ø
V590P-4	1/4	15/16	1.25	1.08	2.50	1.00	2.42	.375
V590P-6	3/8	15/16	1.25	1.09	2.50	1.00	2.43	.375
V590P-8	1/2*	1-1/16	1.25	1.30	2.50	1.08	2.67	.500
V590P-16	1**	1-9/16"	1.30	1.90	2.60	1.38	3.62	.750







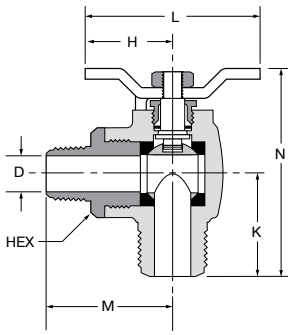
Lever Handle, 90° Flow, Male-Female Pipe Ends V590P-X-04

Part No.	Pipe PTF Thd	Hex	H	K	L	M	N	D Flow Ø
V590P-4-04	1/4	15/16	3.96	1.08	4.96	1.00	3.02	.375
V590P-6-04	3/8	15/16	3.96	1.09	4.96	1.00	3.03	.375
V590P-8-04	1/2*	1-1/16	3.80	1.30	4.88	1.08	2.95	.500
V590P-16-04	1**	1-9/16"	3.96	1.90	5.34	1.38	4.17	.750

*PTF Special Short. **PTF SPL Extra Short

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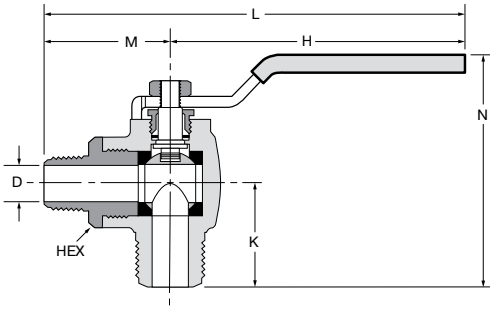




90° Flow, Male-Male Pipe Ends V591P

Part No.	Pipe Thd	Hex	H	K	L	M	N	D Flow Ø
V591P-4	1/4	15/16	1.25	1.08	2.50	1.56	2.42	.375
V591P-6	3/8	15/16	1.25	1.09	2.50	1.56	2.43	.375
V591P-8	1/2	1-1/16	1.25	1.30	2.50	1.84	2.67	.500





Lever Handle, 90° Flow, Male-Male Pipe Ends V591P-X-04

Part No.	Pipe Thd	Hex	H	K	L	M	N	D Flow Ø
V591P-4-04	1/4	15/16	3.96	1.08	5.52	1.56	3.02	.375
V591P-6-04	3/8	15/16	3.96	1.09	5.52	1.56	3.03	.375
V591P-8-04	1/2	1-1/16	3.80	1.30	5.64	1.84	2.95	.500

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

BALL VALVES BRASS SERIES 500HB



Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve

Type:

- 500HB-Female/Beaded Hose Barb

Material:

- P-Brass

Specifications:

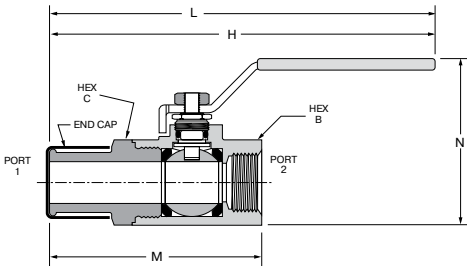
Pressure Range:

- 150 PSI (10.3 bar) WOG, Cold Non-Shock
- Saturated Steam up to 150 PSI (10.3 bar)
- Vacuum Service to 29 Inches Hg

Temperature Range

- 0° to +350° F (-17.7° to +176.6° C)





Brass Hose Barb Ball Valve V500P-HB

Part No.	Port 1	Port 2 PTF	B Hex	C Hex	H	L	M	N	Flow Dia. D
V500P-12-16HB	1	3/4*	1-1/4	1-5/16	3.96	6.25	3.41	2.81	.685

*PTF special extra short

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

BALL VALVES
BRASS SERIES 600



Product Features:

- Forged brass body
- Chrome plated brass ball
- PTFE seats/seals
- Fluorocarbon O-rings
- Steel handle

Specifications:

Pressure Range:

- 150 PSI (10.3 bar)
- Vacuum Service to 29 Inches Hg

Temperature Range

- 0˚ to +250˚ F (-17.7° to +121.1° C)

Style:

- V-Valve

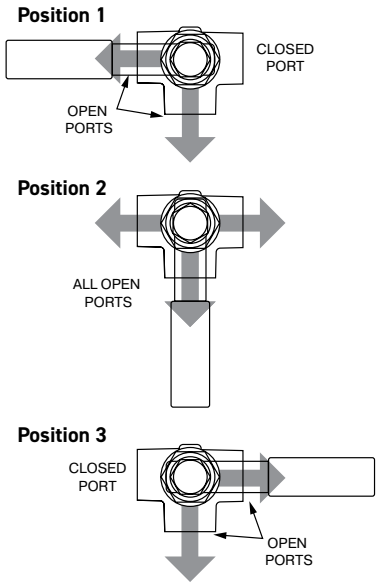
Type:

- 600-Three Position
- 633-Two Position

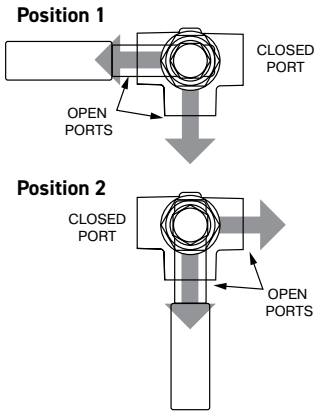
Material:

- P-Brass

Series 600 Handle Positions



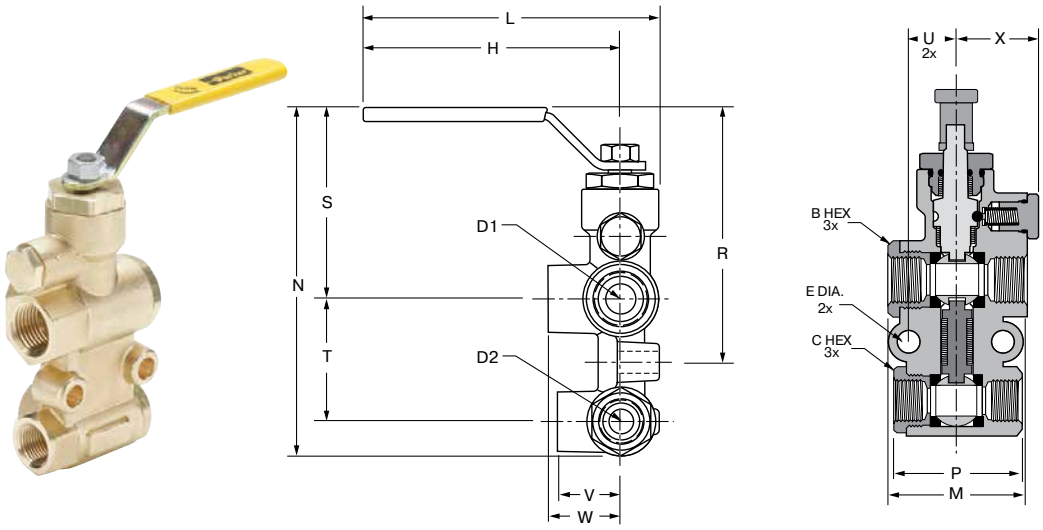
Series 633 Handle Positions



This valve can be used on applications where a fluid return or spillback is required. For use on construction equipment, chemical processing, diesel engines, filter banks, pumps and specialized industrial machinery.

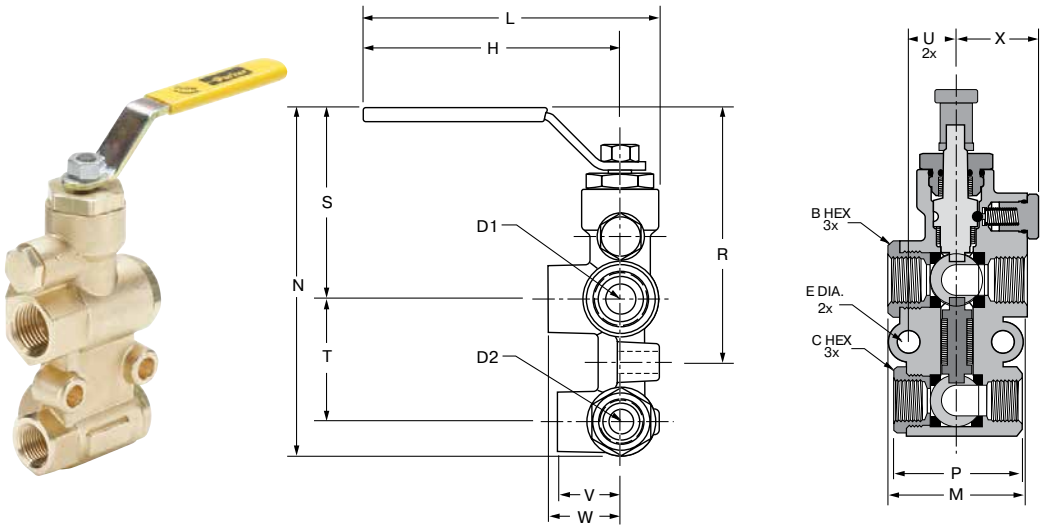
NOTE: Diversion valves do not have off positions, therefore, the center ports can not be used for shut-off purposes.

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Six Port Diversion Brass Valve V600P

Pipe Thd. Part No.	Pipe Thd. Top Port Spl Short	Bottom Port PTF	B Hex	C Hex	D1 Flow	D2 Flow	E	H	L	M	N	P	R	S	T	U	V	W	X
V600P-8-6	1/2	3/8	1 1/16	15/16	.500	.375	.34	3.96	4.56	2.20	5.43	2.03	3.98	2.99	1.91	.73	.98	1.12	1.31



Six Port Diversion Brass Valve V633P

Pipe Thd. Part No.	Pipe Thd. Top Port Spl Short	Bottom Port PTF	B Hex	C Hex	D1 Flow	D2 Flow	E	H	L	M	N	P	R	S	T	U	V	W	X
V633P-8-6	1/2	3/8	1 1/16	15/16	.500	.375	.34	3.96	4.56	2.20	5.43	2.03	3.98	2.99	1.91	.73	.98	1.12	1.31

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

BALL VALVES CARBON STEEL SERIES 500CS/502CS



Product Features:

- Carbon Steel Phosphate Coated body
- Steel ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve
- VP-Valve, padlocking handle

Type:

- 500-Female/Female
- 502-Female/Female

Material:

- CS-Carbon Steel

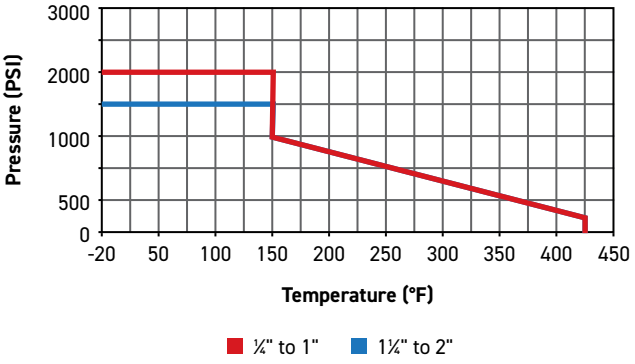
Specifications:

Pressure Range:

- 1/4" – 1": 2000 PSI (137.8 bar)
- 1 1/4" – 2": 1500 PSI (103.4 bar)
- Saturated Steam up to 150 PSI (10.3 bar)

Temperature Range

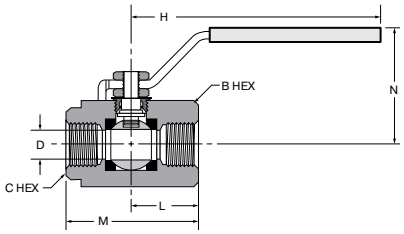
- -20˚ to +425˚ F (-28.8° to +218.3° C)



Flow Data	
Valve Size	CV
1/4	6.0
3/8	12.8
1/2	15.0
3/4	23.0
1	36.0
1-1/4	44.0
1-1/2	64.0
2	114.0

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

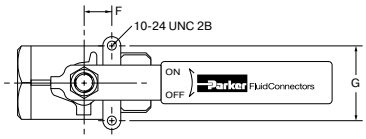


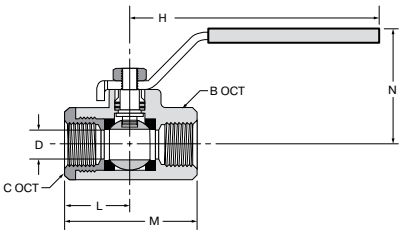


Female-Female Pipe Ends V500CS

Part No.	Pipe Thd	B Hex	C Hex	H	L	M	N	D Flow Ø
V500CS-4	1/4	1-1/16	15/16	3.78	1.00	2.00	1.63	.400
V500CS-6	3/8	1-1/16	15/16	3.78	1.00	2.00	1.63	.400
V500CS-8	1/2	1-1/4	1-1/16	3.78	1.25	2.37	1.73	.540
V500CS-12	3/4	1-5/8	1-3/8	5.10	1.50	2.90	2.08	.680
V500CS-16	1	2	1-5/8	5.10	1.76	3.41	2.30	.880



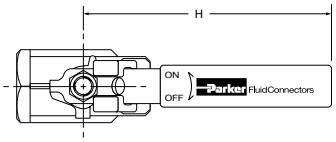


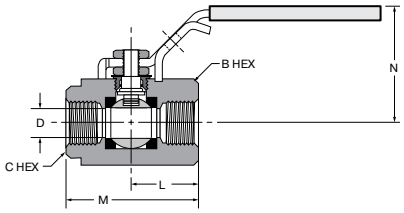


Female-Female Pipe Ends, Panel Mount V502CS

Part No.	Pipe Thd	B Oct	C Oct	F	G	H	L	M	N	Flow Dia. D
V502CS-20	1-1/4	1.98	1.98	.88	1.42	6.60	1.82	3.66	2.99	.98
V502CS-24	1-1/2	2.21	2.21	1.00	1.50	6.60	2.01	3.96	3.17	1.26
V502CS-32	2	2.69	2.69	1.00	1.50	7.50	2.28	4.61	3.52	1.500







Locking Handle, Female Pipe Ends VP500CS

Part No.	Pipe Thd	B Hex	C Hex	H	L	M	N	D Flow Ø
VP500CS-4	1/4	1-1/16	15/16	4.13	1.00	2.00	2.23	.400
VP500CS-6	3/8	1-1/16	15/16	4.13	1.00	2.00	2.23	.400
VP500CS-8	1/2	1-1/4	1-1/16	4.13	1.25	2.37	2.33	.540
VP500CS-12	3/4	1-5/8	1-3/8	5.00	1.50	2.90	2.80	.680
VP500CS-16	1	2	1-5/8	5.00	1.76	3.41	2.97	.880

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

BALL VALVES CARBON STEEL SERIES 506CS



Product Features:

- Carbon Steel Phosphate Coated body
- Steel ball
- PTFE seats/seals
- Steel handle

Style:

- V-Valve

Type:

- 506-Female/Female SAE Straight Thread Ports

Material:

- CS-Carbon Steel

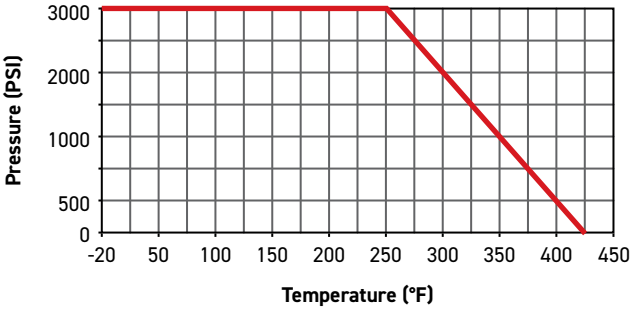
Specifications:

Pressure Range:

- 3000 PSI (206.8 bar)
- Saturated Steam up to 150 PSI (10.3 bar)

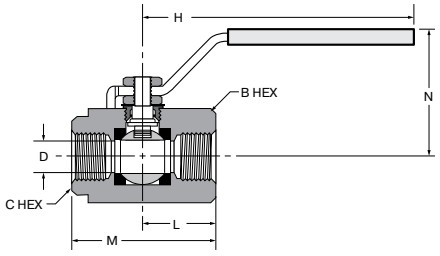
Temperature Range

- -20˚ to +425˚ F (-28.8° to +218.3° C)



Flow Data	
Valve Size	CV
1/4	6.0
3/8	12.0
1/2	15.0
3/4	34.0
1	54.0

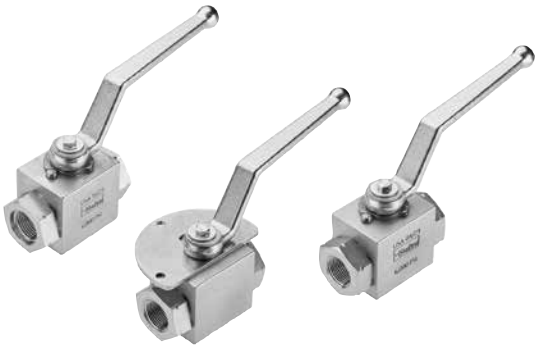




Female-Female SAE Straight Thread Ports V506CS

Part No.	Straight Thd	B Hex	C Hex	H	L	M	N	D Flow Ø
V506CS-4	7/16-20	1-1/16	15/16	3.78	1.00	2.00	1.63	.400
V506CS-6	9/16-18	1-1/16	15/16	3.78	1.00	2.00	1.63	.400
V506CS-8	3/4-16	1-5/8	1-1/4	4.78	1.32	2.84	2.16	.500
V506CS-12	1-1/16-12	1-7/8	1-5/8	4.78	1.66	3.71	2.35	.750
V506CS-16	1-5/16-12	2-1/2	2-1/8	6.10	1.88	4.15	2.85	1.000

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



BALL VALVES CARBON STEEL SERIES 500HP, 506HP

Product Features:

- Carbon Steel Phosphate Coated body
- Steel ball
- Delrin with Molybdenum Disulphide Seats
- Nitrile O-rings Stem Seals
- Steel handle

Style:

- V-Valve
- VP-Valve, padlocking handle

Type:

- 500-Female/Female NPT Ports
- 506-Female/Female SAE Straight Thread Ports

Material:

- HP-High Pressure Carbon Steel

Specifications:

Pressure Range:

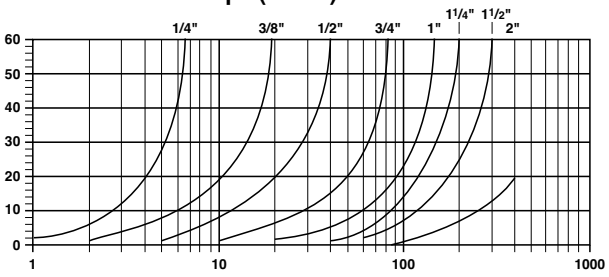
- 6000 PSI (413.6 bar)*
- 7250 PSI (9.9 bar)*

*Dependent on size

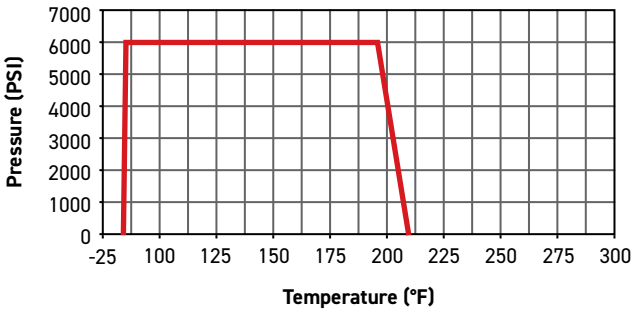
Temperature Range

- -10˚ to +210˚ F (-23.3° to 98.8° C)

Pressure Drop (PSI)

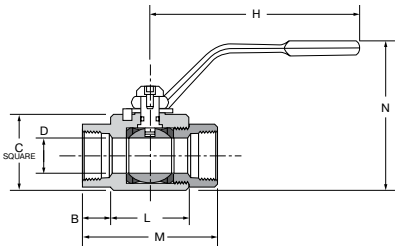


Flow (GPM)



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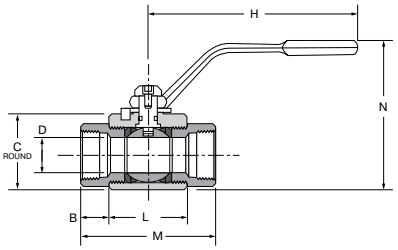




6000 PSI Female-Female Pipe Ends V500HP

Part No.	Pipe Thd [NPT]	B	C	H	L	M	N	Flow Dia. D
V500HP-12	3/4-14	.66	2.24	6.73	2.44	3.75	4.94	.790
V500HP-20	1 1/4-11.5	.79	3.38	12.05	3.15	4.72	6.99	1.26
V500HP-24	1 1/2-11.5	.89	4.06	12.05	3.35	5.12	7.66	1.50
V500HP-32	2-11.5	.78	4.79	12.05	3.94	5.50	8.21	1.89



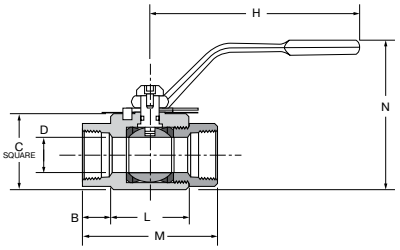


7,250 PSI Female-Female Pipe Ends V500HP

Part No.	Pipe Thd [NPT]	B	C	H	L	M	N	Flow Dia. D
V500HP-4	1/4-18	.57	1.30	4.61	1.57	2.72	3.22	.240
V500HP-6	3/8-18	.57	1.50	4.61	1.70	2.83	3.42	.390
V500HP-8	1/2-14	.68	1.57	4.61	1.89	3.25	3.50	.510
V500HP-16	1-11.5	.76	2.76	6.73	2.92	4.45	5.45	.980





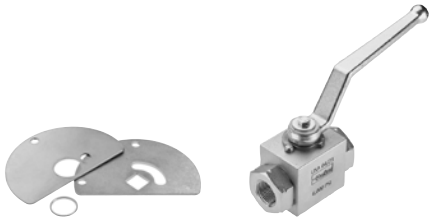


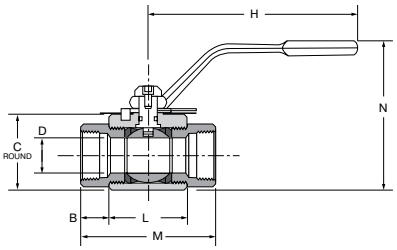
6000 PSI Locking-Female-Female Pipe Ends VP500HP

Part No.	Pipe Thd [NPT]	B	C	H	L	M	N	Flow Dia. D
VP500HP-12	3/4-14	.66	2.24	6.73	2.44	3.75	4.94	.790
VP500HP-20	1 1/4-11.5	.79	3.38	12.05	3.15	4.72	6.99	1.26
VP500HP-24	1 1/2-11.5	.89	4.06	12.05	3.35	5.12	7.66	1.50
VP500HP-32	2-11.5	.78	4.79	12.05	3.94	5.50	8.21	1.89

*Locking plate ships seperately in the box. Assembly is required.

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



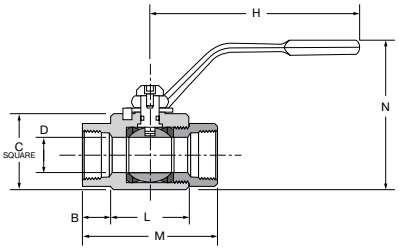


7,250 PSI Locking-Female-Female Pipe Ends VP500HP

Part No.	Pipe Thd [NPT]	B	C	H	L	M	N	Flow Dia. D
VP500HP-4	1/4-18	.57	1.30	4.61	1.57	2.72	3.22	.240
VP500HP-6	3/8-18	.57	1.50	4.61	1.70	2.83	3.42	.390
VP500HP-8	1/2-14	.68	1.57	4.61	1.89	3.25	3.50	.510
VP500HP-16	1-11.5	.76	2.76	6.73	2.92	4.45	5.45	.980

*Locking plate ships seperately in the box. Assembly is required.

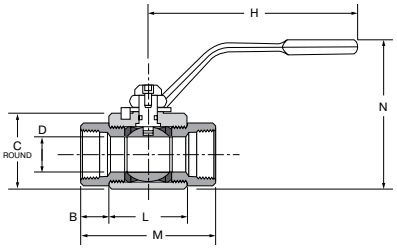




6000 PSI Female-Female Straight Thread Ends V506HP

Part No.	SAE J1926-1 Thread	B	C	H	L	M	N	Flow Dia. D
V506HP-12	1 1/16-12 UNF	.66	2.24	6.73	2.44	3.75	4.94	.790
V506HP-20	1 5/8-12 UNF	.61	3.38	12.05	3.15	4.37	6.99	1.18
V506HP-24	1 7/8-12 UNF	.89	3.98	12.05	3.35	5.12	7.66	1.50
V506HP-32	2 1/2-12 UNF	.78	4.61	12.05	3.94	5.50	8.21	1.77

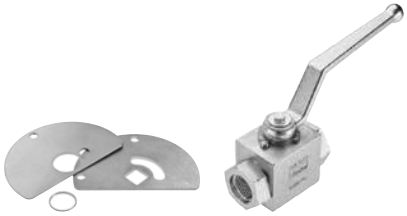


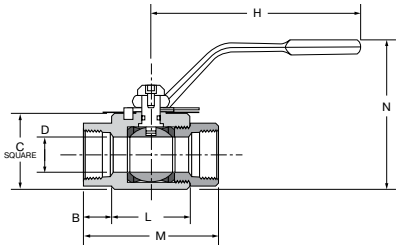


7,250 PSI Female-Female Straight Thread Ends V506HP

Part No.	SAE J1926-1 Thread	B	C	H	L	M	N	Flow Dia. D
V506HP-4	7/16-20 UNF	.57	1.30	4.61	1.57	2.72	3.22	.200
V506HP-6	9/16-18 UNF	.57	1.50	4.61	1.70	2.83	3.42	.390
V506HP-8	3/4-16 UNF	.68	1.57	4.61	1.89	3.25	3.50	.510
V506HP-16	1 5/16-12 UNF	.66	2.76	6.73	2.92	4.75	5.45	.790

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

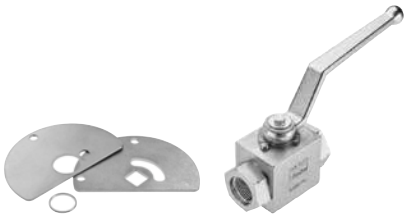


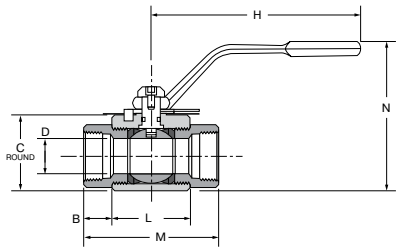


6000 PSI Locking-Female-Female Straight Thread Ends XV506HP

Part No.	SAE J1926-1 Thread	B	C	H	L	M	N	Flow Dia. D
V506HP-12	1 1/16-12 UNF	.66	2.24	6.73	2.44	3.75	4.94	.790
V506HP-20	1 5/8-12 UNF	.61	3.38	12.05	3.15	4.37	6.99	1.18
V506HP-24	1 7/8-12 UNF	.89	3.98	12.05	3.35	5.12	7.66	1.50
V506HP-32	2 1/2-12 UNF	.78	4.61	12.05	3.94	5.50	8.21	1.77

*Locking plate ships seperately in the box. Assembly is required.





7,250 PSI Locking-Female-Female Straight Thread Ends V506HP

Part No.	SAE J1926-1 Thread	B	C	H	L	M	N	Flow Dia. D
V506HP-4	7/16-20 UNF	.57	1.30	4.61	1.57	2.72	3.22	.200
V506HP-6	9/16-18 UNF	.57	1.50	4.61	1.70	2.83	3.42	.390
V506HP-8	3/4-16 UNF	.68	1.57	4.61	1.89	3.25	3.50	.510
V506HP-16	1 5/16-12 UNF	.66	2.76	6.73	2.92	4.75	5.45	.790

Locking plate ships seperately in the box. Assembly is required.

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

BALL VALVES STAINLESS STEEL SERIES 501SS

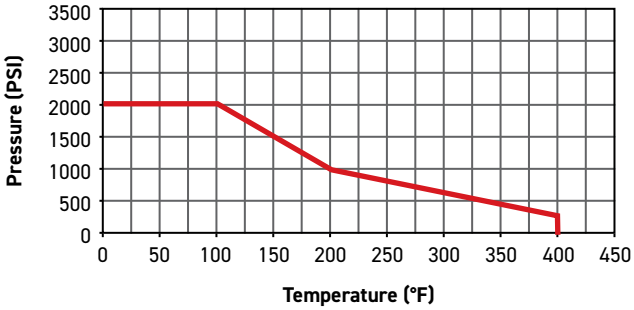


Product Features:

- CF-8M Stainless Steel body
- Stainless Steel ball
- PTFE Seats/Seals
- Stainless Steel handle
- Silicone Free

Approvals

- Meets material requirements of NACE MR-01-75



Style:

- V-Valve

Material:

- SS – Stainless Steel

Type:

- 501-Male/Female NPT Ports

Options:

- 20-Short Handle
- 21-Oval Handle
- 35-Welded Retainer Nut

Specifications:

Pressure Range:

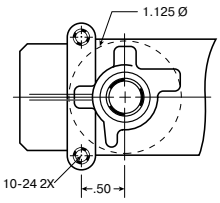
- 2000 PSI (137.8 bar)
- Vacuum service 28 inches Hg

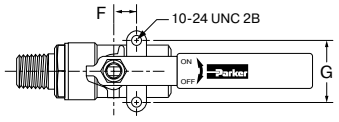
Temperature Range

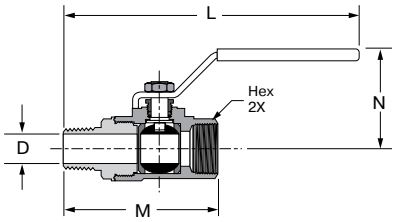
- 0° to +400° F (-17.7° to +204.4° C)

Flow Data	
Valve Size	CV
1/4	4.0
3/8	6.0
1/2	14.0
3/4	35.0
1	54.0

Mounting Detail







Male-Female Pipe Ends V501SS

Part No.	Pipe Thd [NPT]	Hex	F	G	L	M	N	D Flow Ø
V501SS-4	1/4	15/16	.50	1.12	5.60	2.65	1.97	.280
V501SS-6	3/8	15/16	.50	1.12	5.60	2.65	1.97	.375
V501SS-8	1/2	1-1/16	.50	1.12	5.85	3.05	2.00	.500
V501SS-12	3/4	1-3/8	.88	1.37	7.27	3.85	2.55	.720
V501SS-16	1	1-5/8	.88	1.37	7.48	4.25	2.68	.940

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

BALL VALVES STAINLESS STEEL SERIES 502SS



Product Features:

- CF-8M Stainless Steel body
- Stainless Steel ball
- PTFE Seats/Seals
- Stainless Steel handle
- Silicone Free

Style:

- V-Valve
- VP-Valve, Padlocking

Type:

- 502-Panel Mount Female/ Female NPT Ports

Material:

- SS – Stainless Steel

Options

- 20-Short Handle
- 21-Oval Handle
- 35-Welded Retainer Nut

Specifications:

Pressure Range:

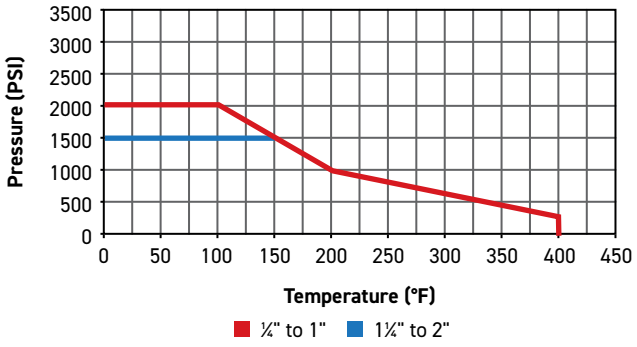
- 1/4" – 1": 2000 PSI (137.8 bar)
- 1 1/4" – 2": 1500 PSI (103.4 bar)
- Vacuum service 28 inches Hg

Temperature Range

- 0° to +400° F (-17.7° to +204.4° C)

Approvals

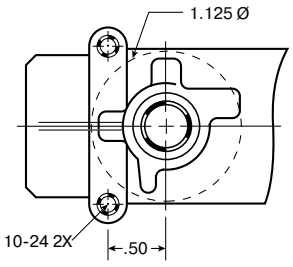
- Meets material requirements of NACE MR-01-75



Flow Data	
Valve Size	CV
1/4	4.0
3/8	6.0
1/2	14.0
3/4	35.0
1	54.0
1 1/4	74.0
1 1/2	120.0
2	226.0

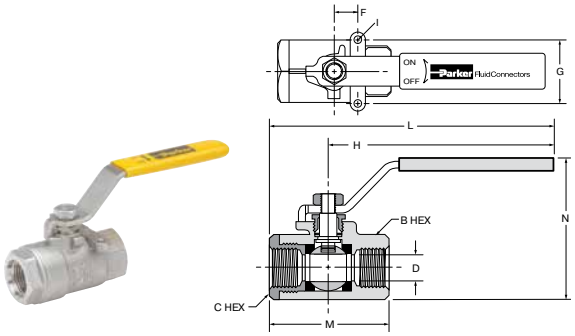
Mounting hole diameter	
Valve Size	dia. in.
1/4	1.125
3/8	1.125
1/2	1.125
3/4	1.500
1	1.500
1 1/4	1.875
1 1/2	1.875
2	1.875

Mounting Detail



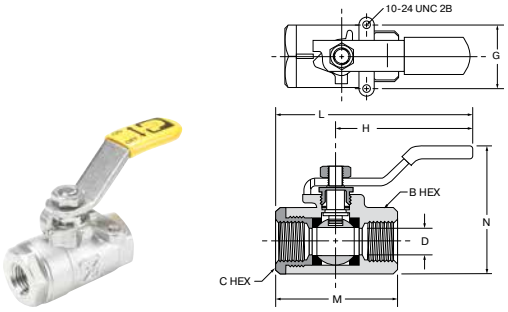
Note: Periodically check the adjustable packing nut and tighten as required.

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Female Pipe Ends, Panel Mount V502SS

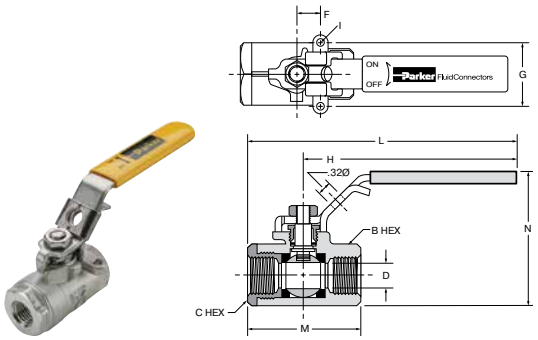
Part No.	Pipe Thd [NPT]	B/C Hex	F	G	H	I Thread	L	M	N	Panel Flow Dia. D	Hole Dia.
V502SS-4	1/4	15/16	.500	1.125	4.00	10-24 UNC	5.03	2.07	2.52	.380	1.125
V502SS-6	3/8	15/16	.500	1.125	4.00	10-24 UNC	5.03	2.07	2.52	.380	1.125
V502SS-8	1/2	1-1/16	.500	1.125	4.00	10-24 UNC	5.13	2.27	2.65	.500	1.125
V502SS-12	3/4	1-3/8	.875	1.375	5.00	10-24 UNC	6.67	3.35	3.46	.790	1.500
V502SS-16	1	1-5/8	.875	1.375	5.00	10-24 UNC	6.77	3.54	3.74	1.000	1.500
V502SS-20	1-1/4	2	1.000	1.500	7.00	1/4-20 UNC	9.00	4.00	4.55	1.250	2.000
V502SS-24	1-1/2	2-3/8	1.000	1.500	7.00	1/4-20 UNC	7.19	4.38	5.42	1.500	2.000
V502SS-32	2	3	1.000	1.500	7.00	1/4-20 UNC	9.75	5.50	5.68	2.000	2.000



Short Handle, Female Pipe Ends, Panel Mount V502SS-X-20

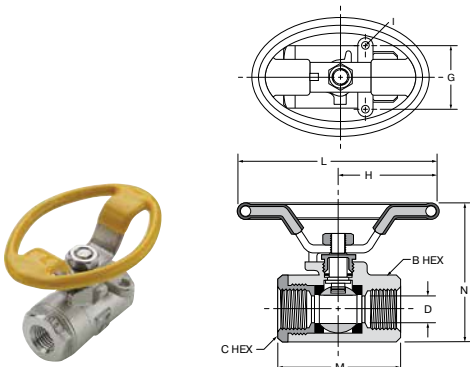
Part No.	Pipe Thd [NPT]	B/C Hex	G	H	L	M	N	Flow Dia. D
V502SS-4-20	1/4	15/16	1.12	2.28	3.32	2.07	2.53	.375
V502SS-6-20	3/8	15/16	1.12	2.28	3.32	2.07	2.53	.375
V502SS-8-20	1/2	1-1/16	1.12	2.22	3.37	2.25	2.63	.500

WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



Locking Handle, Female Pipe Ends, Panel Mount VP502SS

Part No.	Pipe Thd (NPT)	B/C Hex	F	G	H	I Thread	L	M	N	Panel Flow Dia. D	Hole Dia.
VP502SS-4	1/4	15/16	.500	1.125	4.00	10-24 UNC	5.03	2.07	2.52	.380	1.125
VP502SS-6	3/8	15/16	.500	1.125	4.00	10-24 UNC	5.03	2.07	2.52	.380	1.125
VP502SS-8	1/2	1-1/16	.500	1.125	4.00	10-24 UNC	5.13	2.27	2.65	.500	1.125
VP502SS-12	3/4	1-3/8	.875	1.375	5.00	10-24 UNC	6.67	3.35	3.46	.790	1.500
VP502SS-16	1	1-5/8	.875	1.375	5.00	10-24 UNC	6.77	3.54	3.74	1.000	1.500
VP502SS-20	1-1/4	2	1.000	1.500	7.00	1/4-20 UNC	9.00	4.00	4.55	1.250	2.000
VP502SS-24	1-1/2	2-3/8	1.000	1.500	7.00	1/4-20 UNC	7.19	4.38	5.42	1.500	2.000
VP502SS-32	2	3	1.000	1.500	7.00	1/4-20 UNC	9.75	5.50	5.68	2.000	2.000



Oval Handle, Female Pipe Ends, Panel Mount V502SS-X-21

Part No.	Pipe Thd (NPT)	B/C Hex	G	H	L	I Thread	M	N	Panel Flow Dia. D	Hole Dia.
V502SS-4-21	1/4	15/16	1.125	1.74	3.48	10-24 UNC	2.07	2.43	.380	1.125
V502SS-6-21	3/8	15/16	1.125	1.74	3.48	10-24 UNC	2.07	2.43	.380	1.125
V502SS-8-21	1/2	1-1/16	1.125	1.74	3.48	10-24 UNC	2.27	2.54	.500	1.125
V502SS-12-21	3/4	1-3/8	1.375	2.68	5.36	10-24 UNC	3.35	3.45	.790	1.500
V502SS-16-21	1	1-5/8	1.375	2.68	5.36	10-24 UNC	3.54	3.74	1.000	1.500

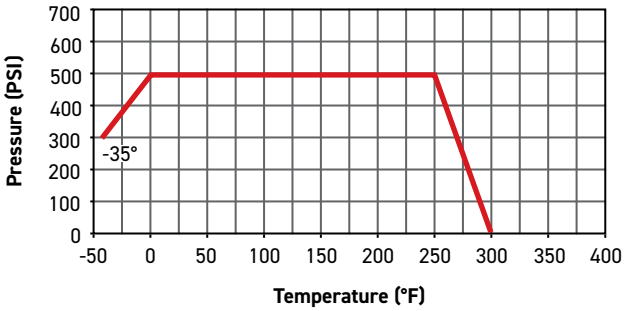
⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

BALL VALVES MICRO SERIES 708/709



Product Features:

- Brass Body
- Chrome Plated Brass Ball
- PTFE Seats/Seals
- Nitrile Stem Seal
- Chrome Plated Steel Handle



Style:

- MV-Micro Valve

Type:

- 708-Male/Female
- 709-Female/Female

Flow Data		
Valve Size	MV708 CV	MV709 CV
1/4	.95	.95

Specifications:

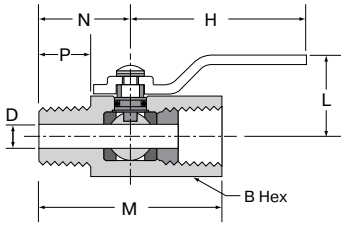
Pressure Range:

- Up to 500 PSI (34.4 bar)
- Vacuum service 29 inches Hg

Temperature Range

- -35˚ to +300˚ F (-37.2 to +148.8° C)

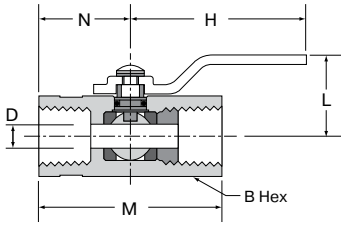




Male-Female Pipe Ends, Mini Ball Valve MV708

Part No.	Pipe Thread	B Hex	H	L	M	N	P	Flow Dia. D
MV708-2	1/8	9/16	1.18	.63	1.62	.93	.38	.180
MV708-4	1/4	11/16	1.52	.70	1.57	.79	.50	.210





Female Pipe Ends, Mini Ball Valve MV709

Part No.	Pipe Thread	B Hex	H	L	M	N	Flow Dia. D
MV709-2	1/8	9/16	1.18	.63	1.52	.68	.180
MV709-4	1/4	11/16	1.52	.70	1.57	.76	.210

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

BALL VALVES MINI SERIES 200/608/609



Product Features:

- Chrome Plated Brass Body
- Chrome Plated Brass Ball
- PTFE Seats/Seals
- Fluorocarbon Stem Seal
- 608/609 Polyamide Wedge Handle
- 200 Polyamide Lever Handle

Style:

- MV-Mini Valve

Type:

- 608-Male/Female
- 609-Female/Female
- 200-Female/Female
- 21-Oval Handle

Specifications:

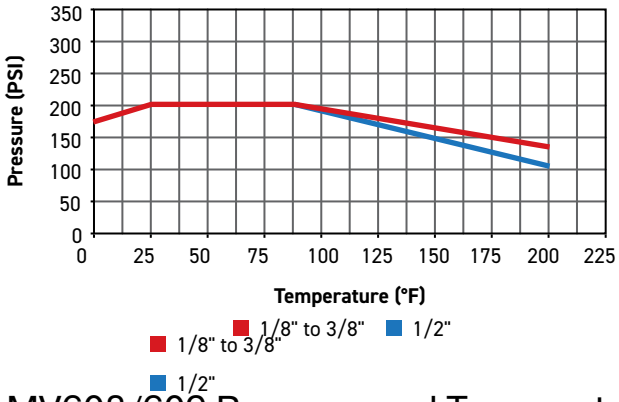
Pressure Range:

- MV200: 200 PSI (13.7 bar)
- MV608/609: Vacuum Service 28 Inches Hg
- MV608/609: 450 PSI (31.0 bar)

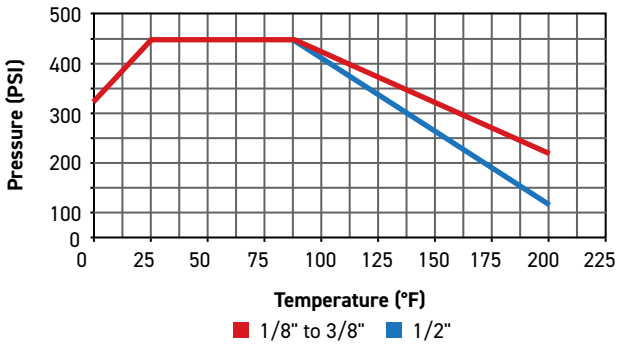
Temperature Range

- 0˚ to +200˚ F (-17.7° to +93.3° C)

MV200 Pressure and Temperature



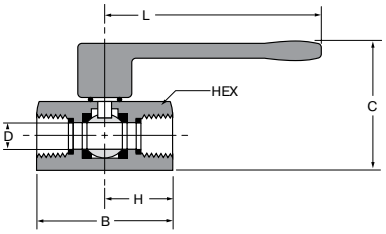
MV608/609 Pressure and Temperature



Flow Data			
Valve Size	MV200 CV	MV608 CV	MV609 CV
1/8	1.3	1.2	1.4
1/4	4.0	5.8	4.3
3/8	3.7	3.9	3.6
1/2	5.8	5.6	6.0

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

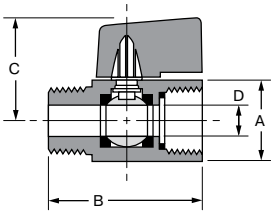




Female Pipe Ends, Lever Handle, Mini Ball Valve MV200

Part No.	Pipe Thread	Hex	B	C	H	L	Flow Dia. D
MV200-2	1/8	.83	1.71	1.20	.91	2.83	.31
MV200-4	1/4	.83	1.71	1.20	.91	2.83	.31
MV200-6	3/8	.83	1.71	1.20	.91	2.83	.31
MV200-8	1/2	.98	2.11	1.28	1.10	2.83	.39

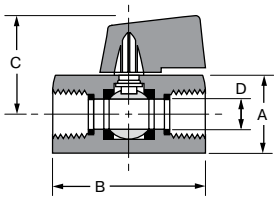




Male-Female Pipe Ends, Compact Handle, Mini Ball Valve MV608

Part No.	Pipe Thread	A Hex	B	C	Flow Dia. D
MV608-2	1/8	.83	1.72	1.22	.20
MV608-4	1/4	.83	1.72	1.22	.31
MV608-6	3/8	.83	1.72	1.22	.31
MV608-8	1/2	.98	2.11	1.30	.39





Female Pipe Ends, Compact Handle, Mini Ball Valve MV609

Part No.	Pipe Thread	A Hex	B	C	Flow Dia. D
MV609-2	1/8	.83	1.71	1.22	.24
MV609-4	1/4	.83	1.71	1.22	.31
MV609-6	3/8	.83	1.71	1.22	.31
MV609-8	1/2	.98	2.11	1.30	.39
MV609-6-4	3/8X1/4	.83	1.71	1.22	.31

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



PLUG VALVES SERIES PV

Product Features:

- Extruded Brass Body
- One Piece Stem/Handle
- Acetal Stem/Handle
- 100% Leak Tested

Style:

- PV-Plug Valve

Type:

- 607-Male/Male
- 608-Male/Female
- 609-Female/Female

Specifications:

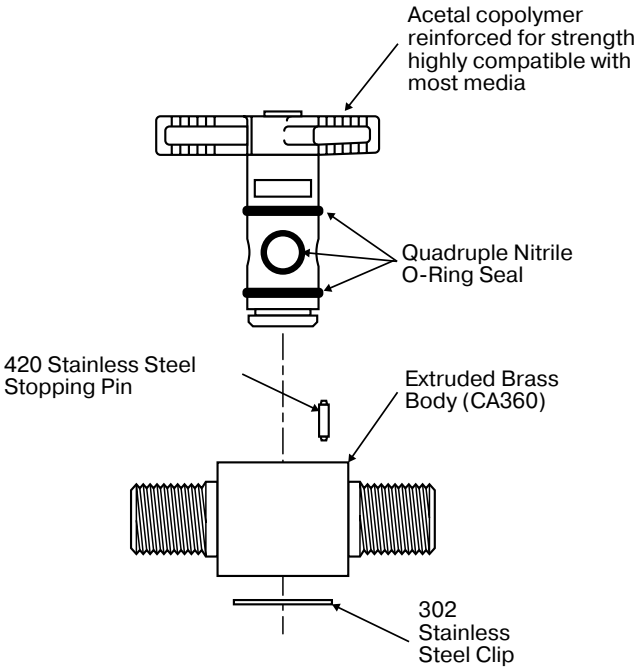
Pressure Range:

- Up to 250 PSI (17.2 bar)

Temperature Range

- -40˚ to +175˚ F (-40° to +79.4° C)

Valve Components



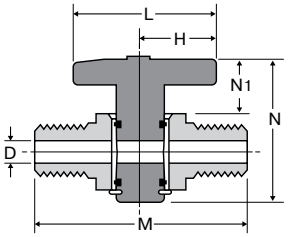
Assembly Instructions

To assure sealability and reliable performance, the valve must be installed So that the flow media travels in the direction of the arrow on the valve handle.



⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

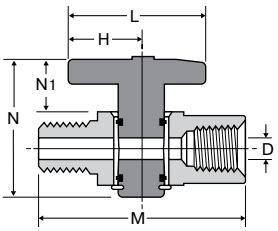




Male Pipe to Male Pipe Plug Valve PV607

Part No.	Pipe Thread	H	L	M	N	N1	Flow Dia. D
PV607-2	1/8	.67	1.34	1.66	1.38	.51	.200
PV607-4	1/4	.67	1.34	2.02	1.38	.51	.200

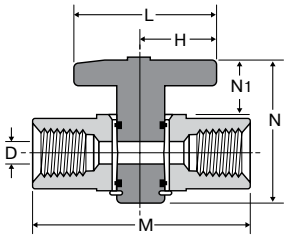




Female Pipe to Male Pipe Plug Valve PV608

Part No.	Pipe Thread	H	L	M	N	N1	Flow Dia. D
PV608-2	1/8	.67	1.34	1.67	1.38	.51	.200
PV608-4	1/4	.67	1.34	2.06	1.38	.51	.200

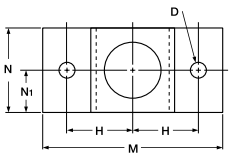




Female Pipe to Female Pipe Plug Valve PV609

Part No.	Pipe Thread	H	L	M	N	N1	Flow Dia. D
PV609-2	1/8	.67	1.34	1.68	1.38	.51	.200
PV609-4	1/4	.67	1.34	2.10	1.38	.51	.200





Mounting Bracket PVMB-001

Part No.	H	M	N	N1	D
PVMB-001	.68	1.86	.90	.45	.135

Note: 1" diameter hole required in panel when using mounting bracket

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



BALL VALVES ROTARY ACTUATOR SERIES ACT

Product Features:

- One Piece Aluminum Extrusion Body
- PTFE Seals
- Stainless Steel Shaft
- Self Lubricated Vane Seal
- Anodized Aluminum Extrusion Vane

Specifications:

Pressure Range:

- 150 PSI (10.3 bar)
  Maximum Air Pressure to Actuator
- Vacuum service 28 inches Hg

Temperature Range

- -40˚ to +180˚ F (-40° to +82.2° C)

How Do Vane Actuators Work?

Parker vane actuators provide the maximum amount of output torque from the smallest possible envelope size. They convert fluid power pressure into rotary motion for a wide variety of industrial applications. Double vane units produce twice the torque output of single vane actuators from identical envelope dimensions and have a maximum rotation of 95°.

A short cylindrical chamber encloses a vane attached to a central shaft. Fluid pressure differential is applied through a stationary barrier (stator) within the cylinder to one side of the vane. The opposite side of the vane is connected to exhaust through the stator. This pressure differential produces rotation of the vane and central shaft. Due to vane actuator design there will always be some internal bypass in these units.

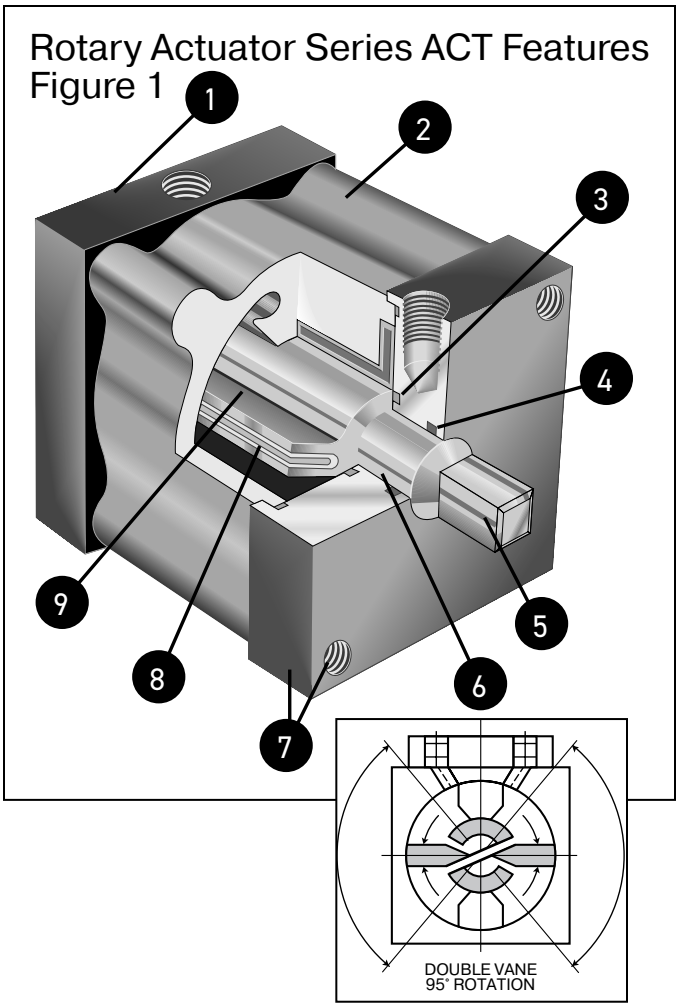
Rotary Actuator Series ACT Features

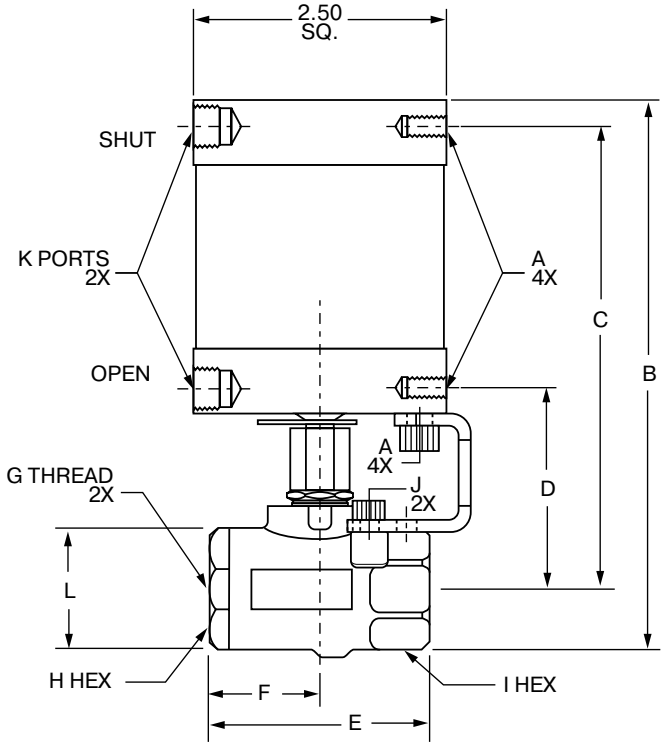
(See figure 1, next page)

1. **Heads**-are precision machined from aluminum, then hard-coat anodized and PTFE impregnated to ensure long seal life and low breakaway pressure.
2. **Body** - is machined from a one-piece aluminum extrusion that incorporates the stator for superior rigidity. The extrusion is hard-coat anodized and PTFE impregnated, resulting in a smooth, slick seal surface which guarantees long seal life and low breakaway pressure.
3. **Shoulder Seal** - a nitrile-energized, PTFE seal is used to reduce bypass flow and friction, providing superior performance and long life.
4. **Shaft Seal** - the high-quality, self-lubricated, abrasion-resistant nitrile seal is a multiple lobe construction for leakfree operation and greater reliability.
5. **Shaft** - stainless steel provides high strength and corrosion resistance for the most demanding applications.
6. **Bearings** - hard-coat anodized aluminum-bearing surface with permanent solid film lubricant provides substantial shaft support and wear resistance, ensuring continuous lubrication, high performance, and long life.
7. **Mounting** - combination face and base mounting offer flexibility in application and design.
8. **Vane Seal** - a special self-lubricated, abrasion-resistant nitrile compound is molded into a one-piece vane seal, providing low breakaway pressure and long life, even with no lubrication. The vane seal is also removable so that field repairs can be made, if necessary.
9. **Vane** - a hard-coat anodized aluminum extrusion permanently affixed to shaft, forming a structurally sound assembly. The light weight also reduces inertia allowing faster operating speeds.

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Rotary Actuator Series ACT Features
Figure 1





Rotary Actuator, Female Pipe Ends V502P-X-ACT

Part No.	Size	A Mtg. Holes	B	C	D	E	F	G	H Hex	I Hex	J UNC	K NPTF	L	Flow Dia.	Flow CV	Min. Act Pressure (psi)
V502P-4-ACT	1/4	1/4-20 UNC	5.25	4.47	1.91	2.03	1.00	1/4-18PTF	15/16	15/16	10-24	1/8-27	1.06	.375	4.0	50
V502P-6-ACT	3/8	1/4-20 UNC	5.25	4.47	1.91	2.03	1.00	3/8-18PTF	15/16	15/16	10-24	1/8-27	1.06	.375	5.8	50
V502P-8-ACT	1/2	1/4-20 UNC	5.38	4.54	1.98	2.20	1.09	1/2-14PTF*	1-1/16	1-1/16	10-24	1/8-27	1.19	.500	12.0	50
V502P-12-ACT	3/4	1/4-20 UNC	5.57	4.63	2.07	2.42	1.29	3/4-14PTF**	1-5/16	1-1/4	10-24	1/8-27	1.38	.685	25.0	75
V502P-16-ACT	1	1/4-20 UNC	5.85	4.76	2.20	2.75	1.38	1-11.5PTF**	1-9/16	1-1/2	10-24	1/8-27	1.67	.875	35.0	75

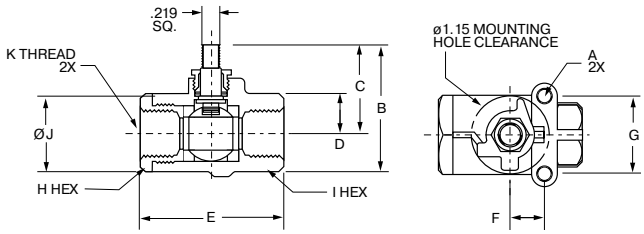
Stainless Steel Rotary Actuator, Female Pipe Ends V502SS-X-ACT

Part No.	Size	A Mtg. Holes	B	C	D	E	F	G	H/I Hex	J	K NPTF	L	Flow Dia.	Flow CV
V502SS-4-ACT	1/4	1/4-20 UNC	5.41	4.61	2.05	2.07	1.04	1/4-18 NPT	15/16	10-24	1/8-27	1.10	.375	4.0
V502SS-6-ACT	3/8	1/4-20 UNC	5.41	4.61	2.05	2.07	1.04	3/8-18 NPT	15/16	10-24	1/8-27	1.10	.375	6.0
V502SS-8-ACT	1/2	1/4-20 UNC	5.53	4.64	2.08	2.27	1.17	1/2-14 NPT	1 1/16	10-24	1/8-27	1.28	.500	14.0

*PTF Special Short. **PTF Special Extra Short

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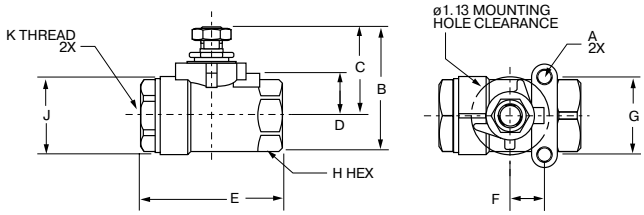


Actuator Sub-Assembly V502P-X-SUB

Part No.	Size	A UNC	B	C	D	E	F	G	H Hex	I Hex	J	K
V502P-4-SUB	1/4	10-24	1.68	1.15	.495	2.03	.50	1.12	15/16	15/16	1.06	1/4-18 PTF
V502P-6-SUB	3/8	10-24	1.68	1.15	.495	2.03	.50	1.12	15/16	15/16	1.06	3/8-18 PTF
V502P-8-SUB	1/2	10-24	1.78	1.19	.565	2.20	.50	1.12	1-1/16	1-1/16	1.19	1/2-14 PTF*
V502P-12-SUB	3/4	10-24	2.09	1.40	.655	2.42	.87	1.37	1-5/16	1-1/4	1.38	3/4-14 PTF**
V502P-16-SUB	1	10-24	2.38	1.54	.785	2.75	.87	1.37	1-9/16	1-1/2	1.67	1-11.5 PTF**

* PTF Special Short ** PTF Special Extra Short



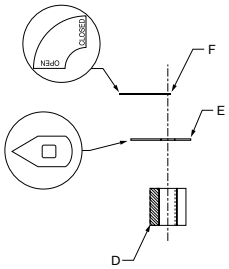


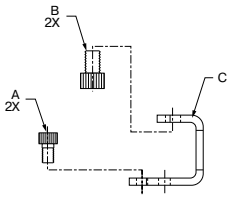
Actuator Sub-Assembly V502SS-X-SUB

Part No.	Size	A UNC	B	C	D	E	F	G	H Hex	J	K
V502SS-4-SUB	1/4	10-24	1.88	1.32	.63	2.07	.50	1.12	15/16	1.10	1/4-18 NPT
V502SS-6-SUB	3/8	10-24	1.88	1.32	.63	2.07	.50	1.12	15/16	1.10	3/8-18 NPT
V502SS-8-SUB	1/2	10-24	2.00	1.35	.66	2.27	.50	1.12	1-1/16	1.28	1/2-14 NPT

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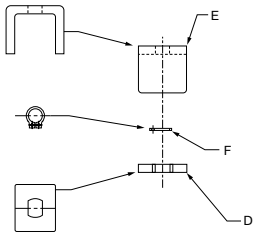


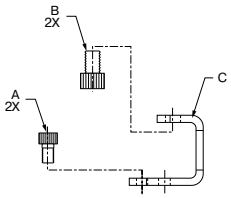


ACT-P-X-KIT

Part No.	For Use With	A	B	C	D	E`	F
ACT-P-1-KIT	V502P-4, 6, 8-ACT	10-24 UNC	1/4-20 UNC	Bracket	.60 Long Coupling	Position Indicator	Position Label
ACT-P-2-KIT	V502P-12, 16-ACT	10-24 UNC	1/4-20 UNC	Bracket	.55 Long Coupling	Position Indicator	Position Label







ACT-SS-X-KIT

Part No.	For Use With	A	B	C	D	E`	F
ACT-SS-1-KIT	V502SS-4, 6, 8-ACT	10-24 UNC	1/4-20 UNC	Bracket	Clip	Handle Yoke	Snap Ring

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BALL VALVE SERIES BVGL

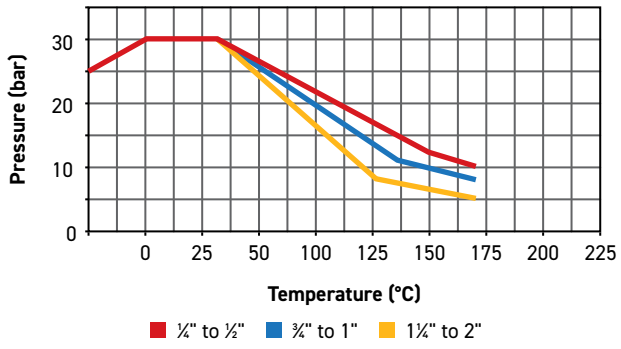


Product Features:

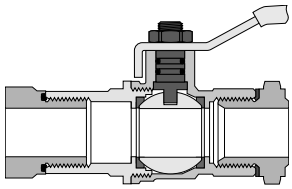
- Nickel plated brass body
- Chrome plated brass ball
- PTFE seats/seals
- Fluorocarbon stem seal

Specifications:

- Female threads manufactured in accordance to DIN 2999/ISO 228

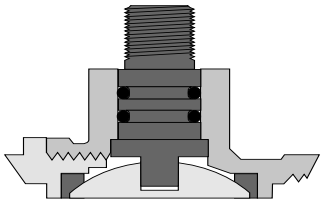


Advantages



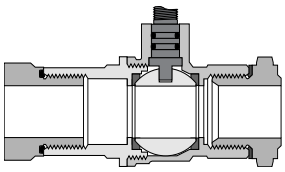
Long female threads

BVGL series valves are manufactured with long female threads in accordance to DIN 2999/ISO 228. This enables the valves to be used with Prestolok and brass adaptors but also Parker's range of steel hydraulic fittings, e.g. Triple-Lok, O-Lok, EO, and BSPP coned adaptors.



Anti extrusion stem

The BVGL series ball valves are fitted with an anti extrusion stem to prevent blow out in the case of pressure peaks. The stem is sealed with two Fluorocarbon O-rings for maximum safety and performance.

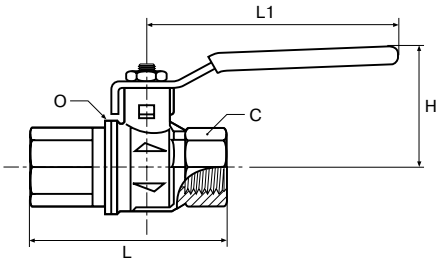


Full flow

All BVGL series valves are full-flow. This limits the turbulence created by the passage of fluid across the valve, minimizing pressure drop.

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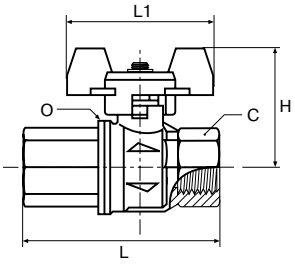




BVGL BSPP Female/Female Valve with Lever Handle

Part No.	DN (mm)	Thread BSPP	C	H	L	L1	O
BVG4-1/4L	8	1/4	20	38	50	82	25.0
BVG4-3/8L	10	3/8	20	38	60	82	25.0
BVG4-1/2L	15	1/2	25	43	75	100	32.5
BVG4-3/4L	20	3/4	32	50	80	120	39.0
BVG4-1L	25	1	41	54	90	120	47.5
BVG4-1.1/4L	32	1 1/4	50	73	110	158	59.0
BVG4-1.1/2L	40	1 1/2	55	79	120	158	71.5
BVG4-2L	50	2	70	86	140	158	86.0





BVGTL BSPP Female/Female Valve with Compact Handle

Part No.	DN (mm)	Thread BSPP	C	H	L	L1	O
BVGT4-1/4L	8	1/4	20	39	50	50	25.0
BVGT4-3/8L	10	3/8	20	39	60	50	25.0
BVGT4-1/2L	15	1/2	25	43	75	50	32.5
BVGT4-3/4L	20	3/4	32	47	80	60	39.0
BVGT4-1L	25	1	41	51	90	60	47.5

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BALL VALVE SERIES BVGLOCK

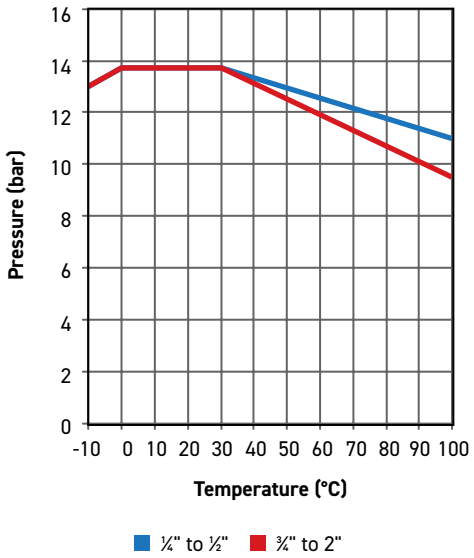


Product Features:

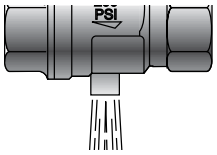
- Nickel plated brass body
- Chrome plated brass ball
- PTFE seats /seals
- PTFE packing gland
- Carbon steel handle

Specifications:

- Meets the requirements of European directive DI 89/392/CEE relating to the isolation of power supply and to meet the health and safety requirements for machines and materials in paragraphs L233-5 of the code DU Travail.

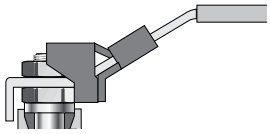


Advantages



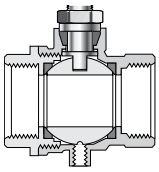
Threaded Exhaust

BVGLOCK series ball valves are manufactured with an exhaust port, this safety feature enables the downstream air pressure to be vented when the valve is closed. 1/4-1" have M5 thread. 1.1/4 and larger are not threaded.



Lockable Handle

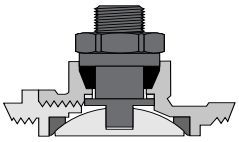
The BVGLOCK series ball valves are fitted with a handle that can be locked in the closed position with a padlock. This safety feature ensures the valve cannot be accidentally opened, and only authorized personnel can operate the valve.



DIN 2999 / ISO 228 Female Threads

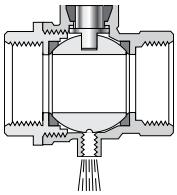
BVGLOCK series valves are manufactured with long female threads in accordance to DIN2999/ ISO228. This enables the valves to be used with Prestolok and brass adaptors but also Parker's range of steel hydraulic fittings and EO-fittings form "A" or "C" to DIN 3852.

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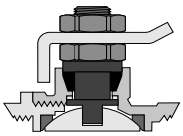
Anti Extrusion Stem

The BVGLOCK series ball valves are fitted with an anti-extrusion stem to prevent blow out in the case of pressure peaks.



Full Flow

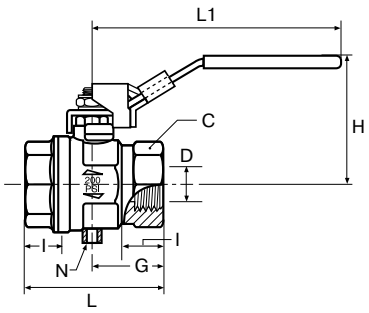
All BVGLOCK series valves are full-flow. This limits the turbulence created by the passage of fluid across the valve, minimizing pressure drop.



Adjustable Packing

The PTFE packing gland and adjustable washer are designed to give longer service like and lower operating torques.





BVG4PLOCK BSPP Female/Female, Vented, Locking Handle

Part No.	D Flow Ø	Thread BSPP	C	G	H	I	L	L1	N
BVG4P-1/4 LOCK	8.0	1/4	20	22.5	47.5	12.0	45	96	M5
BVG4P-3/8 LOCK	9.5	3/8	20	22.5	47.5	12.0	45	96	
BVG4P-1/2 LOCK	15.0	1/2	25	29.5	52.0	15.5	59	96	
BVG4P-3/4 LOCK	19.0	3/4	31	32.0	59.5	17.0	64	117	
BVG4P-1 LOCK	24.0	1	40	40.5	63.5	21.0	81	117	
BVG4P-1.1/4LOCK	32.0	1-1/4	49	46.5	76.5	23.0	93	158	G1/4
BVG4P-1.1/2LOCK	40.0	1-1/2	54	51.0	82.5	23.0	102	158	
BVG4P-2LOCK	50.0	2	69	60.5	89.5	26.5	121	158	

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AXIAL VALVES

This valve is equipped with a pneumatic or electro-pneumatic actuator, so it can be integrated into simple automated systems.



Product Features:

- Very compact
- Simple to install: ready-to-use
- Two seal materials (FKM, EPDM) for a wider chemical and temperature range
- Pneumatic or electro-pneumatic
- Three versions: normally closed, normally open and double-acting
- Uni-directional Flow arrow marked on body

Applications:

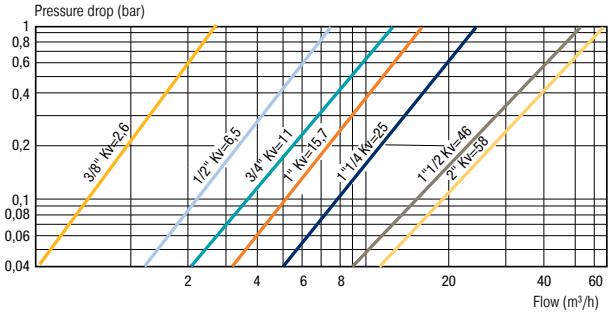
- Injection Molding
- Pneumatics
- Packaging
- Textile
- Printing
- Robotics

Compatible Fluids:

- Compressed air, water, industrial fluids
- Other fluids: please contact division.

Flow Curve and Pressure Drop (Kv)

Kv in m3/h (ambient water temperature, under a differential pressure of 1 bar)



Specifications:

Pressure Range:

- Up to 150 PSI (10.3 bar)

Vacuum Service:

- 29 in Hg

Pilot Pressure:

- NC and NO: 61 to 116 PSI (4.2 to 8 bar)
- Double-acting: 62 to 116 PSI (4.3 to 8 bar)

Temperature Range:

- -4° to +275°F (-20° to +150°C) (suffix 20 FKM)
- -4° to +275°F (-20° to +150°C) (suffix 30 EPDM optional; please contact division)

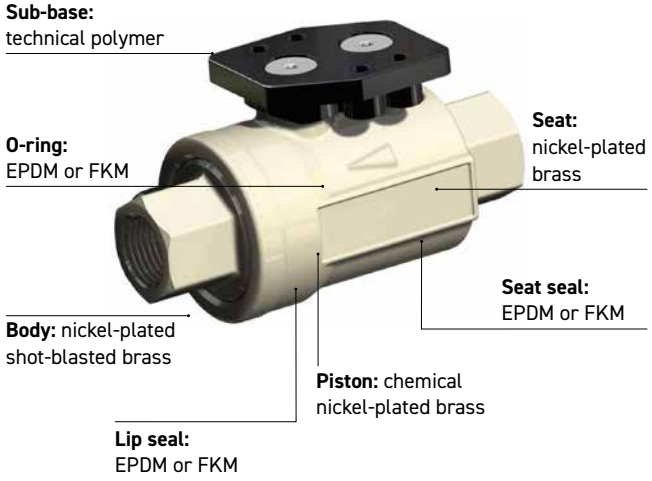
Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used.

Guaranteed for use with a vacuum of 23 mm Hg (97% vacuum).

Regulations

- PED
- RoHS
- REACH

Silicone-free

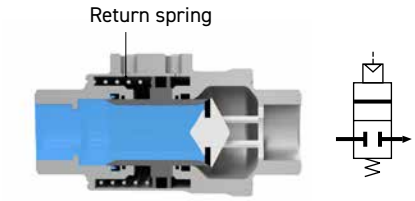


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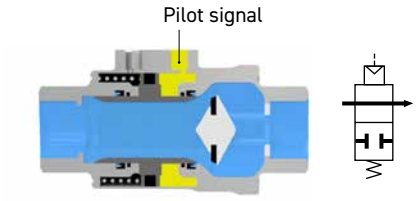
Operation

Depending on operational requirement, piloting air is passed into the actuation chamber to open or close the valve.

Normally Closed Axial Valve (NC)

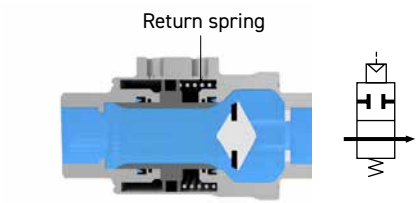


Rest State (valve closed)

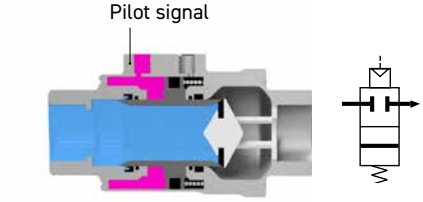


Piloted State (valve open)

Normally Open Axial Valve (NO)

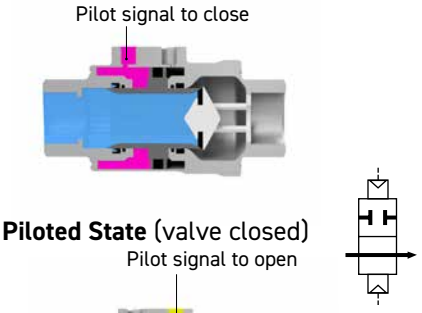


Rest State (valve open)

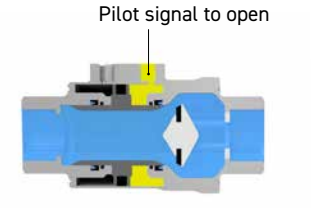


Piloted State (valve closed)

Double-Acting Axial Valve (DA)



Piloted State (valve closed)



Piloted State (valve open)

Installation Options

The Parker Legris axial valve offers 3 control methods depending on the application:

Pneumatic Control

- available for single or double acting
- local compressed air control
- for repetitive on/off cycles
- remote control where access to the machine is difficult or ATEX areas

Pneumatic operation



Electro-Pneumatic Control with NAMUR spool valve (5/2 for double acting)

- available for single or double acting
- for automated industrial systems
- Namur pad-mounting (delivered unassembled)
- robust and compact solution
- better response time than other technologies

Electro-pneumatic operation



Electro-Pneumatic Control with solenoid valves (3/2)

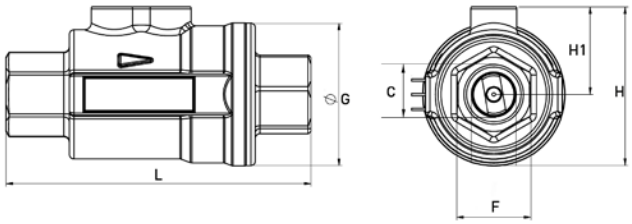
- recommended for single acting
- for automated industrial systems
- pilot solenoid valve banjo G1/8 normally closed 3/2
- easy to connect
- swivel at 360°

Electro-pneumatic operation



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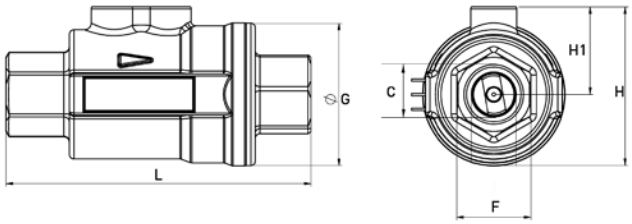


4202 Normally Closed Axial Valve with FKM Seal, Female BSPP Thread Nickel-plated brass

Part No.	C BSPP	F (mm)	G (in)	H (in)	H1 (in)	L (in)	kg.
4202 10 17 20	G3/8	22.0	46	53.5.0	30.5	98.0	0.650
4202 15 21 20	G1/2	27.0	52	59.0	33.0	113.0	0,850
4202 20 27 20	G3/4	33.0	63.5	71.0	39.0	136.0	1.500
4202 25 34 20	G1	41.0	69	76.0	41.5	144.0	1.700
4202 32 42 20*	G1 1/4	50.0	86	91.0	48.0	166.0	3.300
4202 40 49 20*	G1 1/2	60.0	96	102.0	54.0	181.0	3.600
4202 50 48 20*	G2	70.0	109	115.0	60.0	205.0	5.100

Pilot port: G1/8
Delivered with a silencer
*Models with EC marking





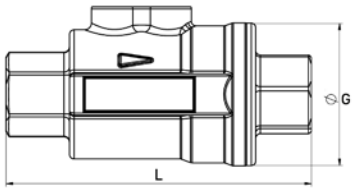
4203 Normally Closed Axial Valve with FKM Seal, Female NPT Thread Nickel-plated brass

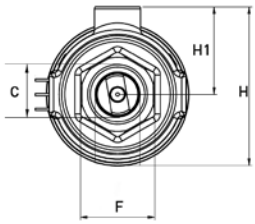
Part No.	C NPT	F (mm)	G (in)	H (in)	H1 (in)	L (in)	lb.
4203 10 18 20	3/8	22.0	46	53.5.0	30.5	98.0	0.650
4203 15 22 20	1/2	27.0	52	59.0	33.0	113.0	0,850
4203 20 28 20	3/4	33.0	63.5	71.0	39.0	136.0	1.500
4203 40 50 20*	1 1/2	60.0	96	102.0	54.0	181.0	3.600
4203 50 44 20*	2	70.0	109	115.0	60.0	205.0	5.100

Pilot port: 1/8
Delivered with a silencer
*Models with EC marking

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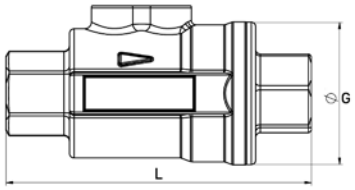


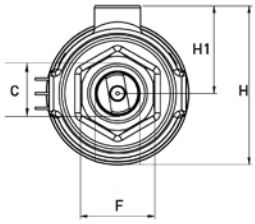
4212 Normally Open Axial Valve with FKM Seal, Female BSPP Thread Nickel-plated brass

Part No.	C BSPP	F (mm)	G (in)	H (in)	H1 (in)	L (in)	kg.
4212 10 17 20	G3/8	22.0	46	53.9	30.9	98.0	0.650
4212 15 21 20	G1/2	27.0	52	59.7	33.8	113.0	0,850
4212 20 27 20	G3/4	33.0	63.5	71.6	39.8	136.0	1.500
4212 25 34 20	G1	41.0	69	76.9	42.4	144.0	1.700
4212 32 42 20*	G1 1/4	50.0	86	92.0	49.0	166.0	3.300
4212 40 49 20*	G1 1/2	60.0	96	103.0	55.0	181.0	3.600
4212 50 48 20*	G2	70.0	109	115.3	60.8	205.0	5.100

Pilot port: G1/8
Delivered with a silencer
*Models with EC marking







4222 Double-Acting Axial Valve with FKM Seal, Female BSPP Thread Nickel-plated brass

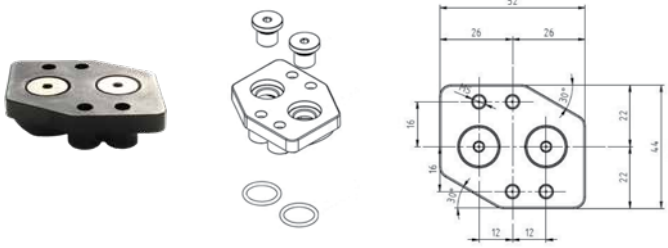
Part No.	C BSPP	F (mm)	G (in)	H (in)	H1 (in)	L (in)	kg.
4222 10 17 20	G3/8	22.0	46	53.9	30.9	98.0	0.600
4222 15 21 20	G1/2	27.0	52	59.7	33.8	113.0	0,800
4222 20 27 20	G3/4	33.0	63.5	71.6	39.8	136.0	1.400
4222 25 34 20	G1	41.0	69	76.9	42.4	144.0	1.600
4222 32 42 20*	G1 1/4	50.0	86	92.0	49.0	166.0	3.000
4222 40 49 20*	G1 1/2	60.0	96	103.0	55.0	181.0	3.300
4222 50 48 20*	G2	70.0	109	115.3	60.8	205.0	4.800

Pilot port: G1/8
*Models with EC marking

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Sub-Base for Control with Spool Valve or Solenoid Valve with NAMUR Pad Mounting

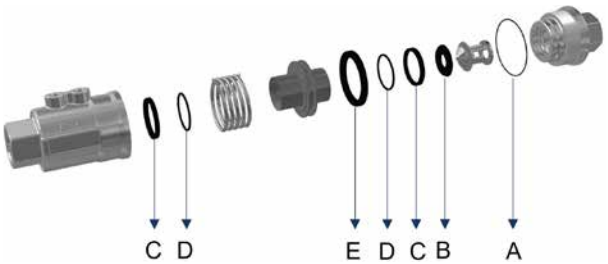
Technical polymer



Delivered with the valve, unassembled

4243 Spare Parts Kit

Part No.	
4243 00 10 20	KIT FOR FKM SEAL DN10
4243 00 15 20	KIT FOR FKM SEAL DN15
4243 00 20 20	KIT FOR FKM SEAL DN20
4243 00 25 20	KIT FOR FKM SEAL DN25
4243 00 32 20	KIT FOR FKM SEAL DN32
4243 00 40 20	KIT FOR FKM SEAL DN40
4243 00 50 20	KIT FOR FKM SEAL DN50



A = Body seal
B = Piston seal
C = Lip seals
D = Stem seals
E = Piston seal

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Complimentary Products



222P Male Connector BSPP to NPTF

Part No.	Thread BSPP	Thread NPTF	C Hex	L (IN)	Flow Dia. D
222P-2-2G	1/8-28	1/8-27	9/16	.77	.24



Solenoid Valve U341N03

							Operating Pressure Differential (MOPD)			
Part No.	Port Size NPT	Orifice Size In.	Flow Factor CV	Wattage	Function	Solenoid	Minimum PSI	AC/DC Rating PSI	Min. Fluid Temp (F)	Max. Fluid Temp (F)
U341N03	1/4	0.27	1.2	5 W	2-WAY	SINGLE	37	150	32	122



3 Way Solenoid Valve 131B14

						Operating Pressure Differential (MOPD)				
Part No.	Inlet Port Size (BSPP)	Outlet Port Size (BSPP)	Orifice (mm)	Flow Factor (l/min)	Seat Seal	Min (Bar)	Max (AC bar)	MOPD (DC bar)	Min. Fluid Temp (C)	Max. Fluid Temp (F)
131B14	1/8"	1/4"	1.2	50	NBR	0	10	10	-10	50



Solenoid Coil P2FCB

Part No.	Voltage
P2FCB449	24 VDC
P2FCB453	110 VAC



3-Pin DIN Connector PS2429BP

Part No.	Pin	Pin Size (mm)
PS2429BP	Rectangle	22

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NEEDLE VALVES

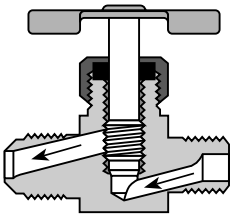
Parker's all brass needle valves have metal-to-metal seats with fine thread screwdown. The specially formulated low temperature seal remains elastic to temperatures as low as -40˚F (-40˚ C).

Product Features:

- Extruded Brass Body & Stem
- Low Temperature Seal
- Metal-to-Metal Seal
- Pin Handle
- Pre-applied Vibra-Seal thread sealant available

Needle Valves Installation Instructions

Series NV valves should always be installed with the pressure against the seat. Refer to drawing to determine correct direction of flow.



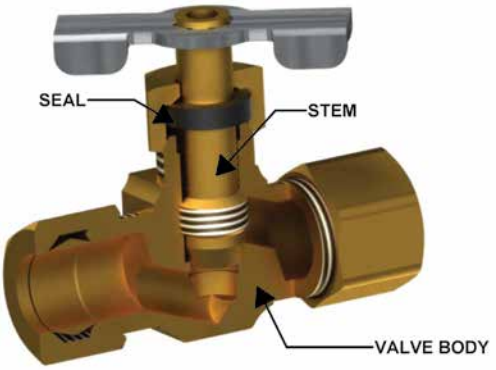
Specifications:

Pressure Range:

- Up to 150 PSI (10.3 bar)

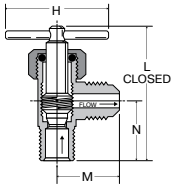
Temperature Range

- -40˚ to +175˚ F (-40° to +79.4° C)
- Humidifier Valve Kit & Self Piercing Humidifier Kit: -30° to +250° F (-34.4° to +121.1° C)
- NV311P/NV312P: 0° to +150° F (-17.7° to +65.5° C)



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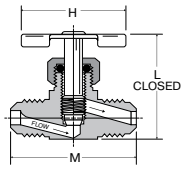


Angle Needle Valve NV101F Flare to Male Pipe

*Provided with Pin Handle Temperature Range: -45° to +250° F (-42.7° to +121.1° C)

Part No.	Tube Size	Pipe Thd	H	L	M	N
NV101F-4-2*	1/4	1/8	1.50	1.58	.75	.66
NV101F-6-4	3/8	1/4	1.38	1.86	.95	.90



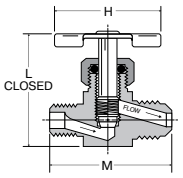


Needle Valve NV102F Flare to Flare

*Provided with Pin Handle Temperature Range: -45° to +250° F (-42.7° to +121.1° C)

Part No.	Tube Size	H	L	M
NV102F-4*	1/4	1.50	1.34	1.50



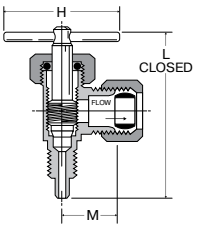


Needle Valve NV103F Flare to Male Pipe

*Provided with Pin Handle Temperature Range: -45° to +250° F (-42.7° to +121.1° C)

Part No.	Tube Size	Pipe Thread	H	L	M
NV103F-4-2*	1/4	1/8	1.50	1.33	1.35



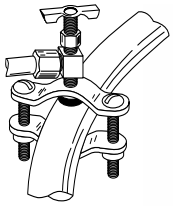


Humidifier Valve HV104C

Temperature Range: -45° to +250° F (-42.7° to +121.1° C)

Part No.	Tube Size	Pipe Thread	H	L	M
HV104C-4-2	1/4	1/8	1.50	1.89	.53

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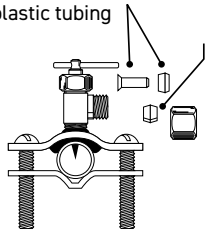
Humidifier Valve Clamp Kit HV104C-KIT

Temperature Range: -30° to +250° F (-34.4° to +121.1° C) Clamp fits 3/8" O.D. through 1.315" O.D. tube or pipe.
Kit includes 60PT-4 and 63PT-4 for assembly with plastic or nylon tubing. For complete kit, specify entire part number as shown below:

Part No.	Tube Size	Pipe Thd
HV104C-4-2 KIT	1/4	1/8

Plastic sleeve and brass insert for 1/4" O.D. x .040 wall plastic tubing

Brass sleeve for 1/4" O.D. copper tube





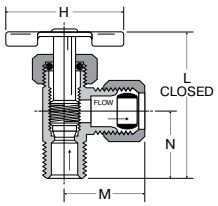
Self-Piercing Humidifier Valve Clamp Kit SPV104C-KIT

Temperature Range: -30° to +250° F (-34.4° to +121.1° C) Clamp fits 3/8" O.D. through 1.315" O.D. tube or pipe.
Kit includes 60PT-4 and 63PT-4 for assembly with plastic or nylon tubing. For complete kit, specify entire part number as shown below:

Part No.	Tube Size	Pipe Thd
SPV104C KIT	1/4	1/8

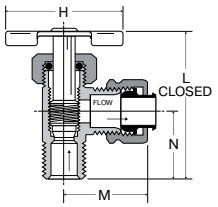
NV104C





NV104CA





Angle Needle Valve NV104C-NV104CA Compression to Male Pipe

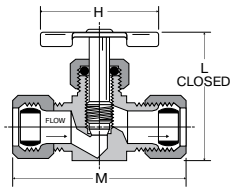
*Provided with Pin Handle Temperature Range: -45° to +250° F (-42.7° to +121.1° C)

Part No.	Tube Size	Pipe Thd	H	L	M	N
NV104C-4-2*	1/4	1/8	1.50	1.54	.88	.67
NV104CA-4-2*	1/4	1/8	1.50	1.49	.77	.66
NV104C-4-4	1/4	1/4	1.38	1.80	.93	.75
NV104C-5-2*	5/16	1/8	1.50	1.63	.88	.68
NV104C-6-4	3/8	1/4	1.38	1.76	.94	.81

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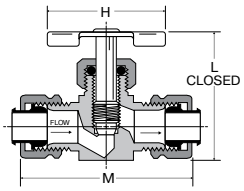
NV105C





NV105CA





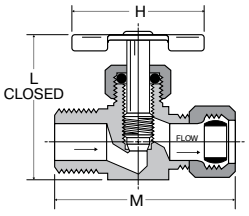
Needle Valve NV105C-NV105CA Compression to Compression

*Provided with Pin Handle Temperature Range: -45° to +250° F (-42.7° to +121.1° C)

Part No.	Tube Size	H	L	M
NV105C-4*	1/4	1.50	1.41	1.75
NV105C-5*	5/16	1.50	1.35	1.73
NV105C-6	3/8	1.38	1.55	1.93
NV105CA-4*	1/4	1.50	1.41	1.64
NV105CA-6	3/8	1.38	1.55	1.78

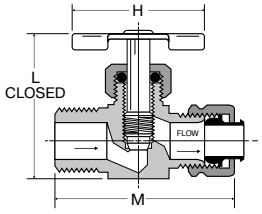
NV106C





NV106CA



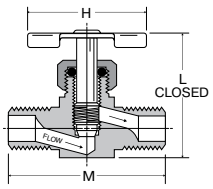


Needle Valve NV106C-NV106CA Compression to Male Pipe

*Provided with Pin Handle Temperature Range: -45° to +250° F (-42.7° to +121.1° C)

Part No.	Tube Size	Pipe Thread	H	I	M
NV106C-4-2*	1/4	1/8	1.50	1.41	1.53
NV106C-4-4*	1/4	1/4	1.50	1.40	1.55
NV106C-5-2*	5/16	1/8	1.50	1.35	1.50
NV106C-6-4	3/8	1/4	1.38	1.56	1.75
NV106CA-4-2*	1/4	1/8	1.50	1.41	1.47
NV106CA-4-4*	1/4	1/4	1.50	1.33	1.52
NV106CA-6-4	3/8	1/4	1.38	1.53	1.78





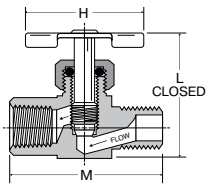
Needle Valve NV107P Male Pipe to Male Pipe

*Provided with Pin Handle Temperature Range: -45° to +250° F (-42.7° to +121.1° C)

Part No.	Pipe Thread	H	I	M
NV107P-2*	1/8	1.50	1.35	1.25
NV107P-4	1/4	1.38	1.54	1.65

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



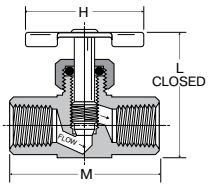


Needle Valve NV108P Female Pipe to Male Pipe

*Provided with Pin Handle
Temperature Range: -45° to +250° F (-42.7° to +121.1° C)

Part No.	Pipe Thread	H	I	M
NV108P-2*	1/8	1.50	1.36	1.24
NV108P-4	1/4	1.38	1.56	1.61



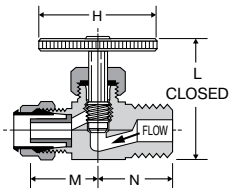


Needle Valve NV109P Female Pipe to Female Pipe

*Provided with Pin Handle
Temperature Range: -45° to +250° F (-42.7° to +121.1° C)

Part No.	Pipe Thread	H	I	M
NV109P-2*	1/8	1.50	1.35	1.25
NV109P-4	1/4	1.38	1.53	1.60



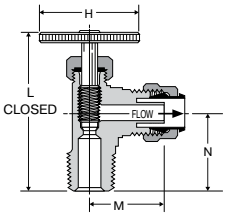


Needle Valve NV311P Poly-Tite to Male Pipe

Temperature Range: 0° to +150° F (0° to +65.5° C)

Part No.	Tube Size	Pipe Thread	H	I	M	N
NV311P-4-2	1/4	1/8	1.07	1.17	.50	.63
NV311P-4-4	1/4	1/4	1.07	1.18	.50	.72
NV311P-6-4	3/8	1/4	1.07	1.19	.56	.72





Angle Needle Valve NV312P Poly-Tite to Male Pipe

Temperature Range: 0° to +150° F (0° to +65.5° C)

Part No.	Tube Size	Pipe Thread	H	I	M	N
NV312P-4-2	1/4	1/8	1.07	1.53	.48	.68
NV312P-4-4	1/4	1/4	1.07	1.72	.56	.86
NV312P-6-4	3/8	1/4	1.07	1.68	.64	.86

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

DRAIN COCKS/ GROUND PLUG SHUTOFF



Parker's ground plug shutoffs are manufactured from castings or forged bodies for extra strength. Hand tightening provides a metal-to-metal seal. Drain cocks are manufactured in both external and internal seats.

Product Features

- Pre-applied Vibra-Seal thread sealant available





Specifications:

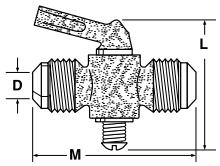
Pressure Range:

- Ground Plug Shutoff: 30 PSI (2.0 bar)
- Drain Cocks: Up to 150 PSI (10.3 bar)

Temperature Range

- Ground Plug Shutoff: 32˚ to +125˚ F (0° to +51.6° C)
- V406P/V407P: -40° to +180° F (-40° to +82.2° C)
- Drain Cocks: -65° to +250° F (-53.8° to +121.1° C)
- DCR601: -30° to +250° F (-34.4° to +121.1° C)



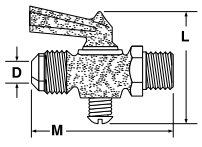


Ground Plug Shutoff V203F Flare to Flare

T0emperature Range: +32° to +125° F (0° to +51.6° C)

Part No.	Tube Size	L	M	Flow Dia. D
V203F-6-6	3/8	2.26	2.13	.220
V203F-8-8	1/2	2.26	2.50	.281





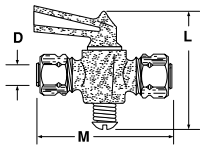
Ground Plug Shutoff V204F Flare to Male Pipe

Temperature Range: +32° to +125° F (0° to +51.6° C)

Part No.	Tube Size	Pipe Thread	L	M	Flow Dia. D
V204F-4-2	1/4	1/8	1.85	2.00	.188
V204F-6-4	3/8	1/4	1.85	2.18	.218

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



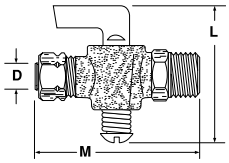


Ground Plug Shutoff V303C / V303CA Compression to Compression

Temperature Range: +32° to +125° F (0° to +51.6° C)

Part No.	Tube Size	L	M	Flow Dia. D
V303C-4-4	1/4	1.88	2.33	.188
V303CA-4-4	1/4	1.90	1.75	.188
V303C-6-6	3/8	2.26	2.45	.218
V303CA-6-6	3/8	1.76	1.60	.218



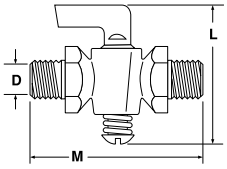


Ground Plug Shutoff V304C/V304CA Compression to Male Pipe

Temperature Range: +32° to +125° F (0° to +51.6° C)

Part No.	Tube Size	Pipe Thread	L	M	Flow Dia. D
V304C-4-2	1/4	1/8	1.90	2.29	.188
V304CA-4-2	1/4	1/8	1.88	2.00	.188
V304C-4-4	1/4	1/4	1.90	2.15	.188
V304C-6-4	3/8	1/4	1.83	2.24	.218
V304CA-6-4	3/8	1/4	1.83	2.11	.218





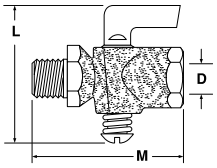
Ground Plug Shutoff V401P Male Pipe to Male Pipe

Temperature Range: +32° to +125° F (0° to +51.6° C)

Part No.	Pipe Thread	L	M	Flow Dia. D
V401P-2-2	1/8	1.90	2.25	.188
V401P-4-4	1/4	1.90	1.98	.188

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



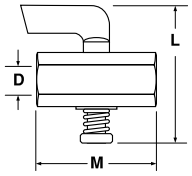


Ground Plug Shutoff V402P Female Pipe to Male Pipe

Temperature Range: +32° to +125° F (0° to +51.6° C)

Part No.	Female Pipe Thread	Pipe Thread	L	M	Flow Dia. D
V402P-2-2	1/8	1/8	1.85	1.78	.218
V402P-4-4	1/4	1/4	1.86	2.26	.218
V402P-6-6	3/8	3/8	2.34	2.21	.245





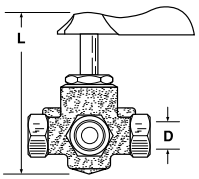
Ground Plug Shutoff V403P Female Pipe to Female Pipe

Temperature Range: +32° to +125° F (0° to +51.6° C)

Part No.	Female Pipe Thread	L	M	Flow Dia. D
V403P-2-2	1/8	1.90	1.51	.218
V403P-4-4	1/4	1.90	1.65	.188
V403P-6-6*	3/8	2.25	2.00	.250

*Made from extruded bar stock





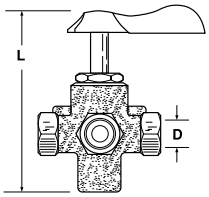
Three-Way Valve V406P Female Pipe three ends

Temperature Range: -40° to +180° F (-40° to +82.2° C)

Part No.	Pipe Thread	L	Flow Dia. D
V406P-4	1/4	3.10	.281

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



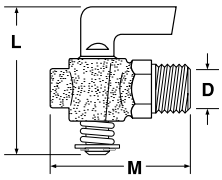


Four-Way Valve V407P Female Pipe four ends

Temperature Range: -40° to +180° F (-40° to +82.2° C)

Part No.	Pipe Thread	L	Flow Dia. D
V407P-4	1/4	3.30	.281



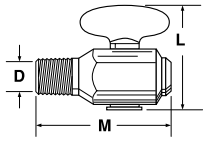


Ground Plug Shutoff DC601

Temperature Range: +32° to +125° F (0° to +51.6° C)

Part No.	Pipe Thread	L	M	Flow Dia. D
DC601-2	1/8	1.90	1.40	.170
DC601-4	1/4	1.90	1.52	.170
DC601-6	3/8	2.26	1.74	.281
DC601-8	1/2	2.29	1.82	.281



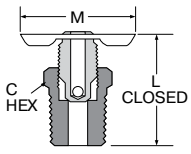


Drain Cock DCR601

Temperature Range: -30° to +250° F (-34.4° to +121.1° C)

Part No.	Pipe Thread	L	M	Flow Dia. D
DCR601-4	1/4	1.39	1.74	.16
DCR601-6	3/8	1.41	1.74	.156





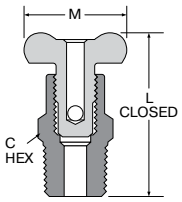
Internal Seal Drain Cock DC602

Temperature Range: -65° to +250° F (-53.8° to +121.1° C)

Part No.	Pipe Thread	C Hex	L	M
DC602-2	1/8	13/32	.92	1.25
DC602-4	1/4	9/16	.94	1.25

⚠ WARNING This product can expose you to chemicals including Nickel which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov



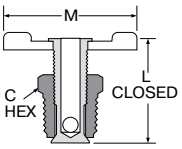


Drain Cock DC603

Temperature Range: -65° to +250° F (-53.8° to +121.1° C)

Part No.	Pipe Thread	C Hex	L	M
DC603-2	1/8	5/8	1.41	1.00
DC603-4	1/4	5/8	1.54	1.16
DC603-6	3/8	11/16	1.63	1.16





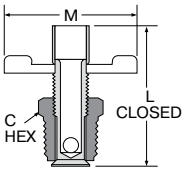
External Seal Drain Cock DC604

Temperature Range: -65° to +250° F (-53.8° to +121.1° C)

Part No.	Pipe Thread	C Hex	L	M
DC604-2*	1/8	7/16	.85	1.25
DC604-4	1/4	9/16	1.00	1.38
DC604-6*	3/8	11/16	1.22	1.68

*When assembled handle wings are down facing



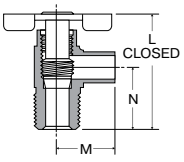


External Seal Drain Cock DC606

Temperature Range: -65° to +250° F (-53.8° to +121.1° C)

Part No.	Pipe Thread	C Hex	L	M
DC606-4	1/4-18	9/16	1.50	1.38





Bib Drain Valve DC607

Temperature Range: -65° to +250° F (-53.8° to +121.1° C)

Part No.	Hose Size	Pipe Thread	Flow	L	M	N
DC607-4	3/8	1/4	.28	1.32	.67	.71

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Replacement Handles

	Valve	Plated Steel Lever w/Cover	S.S. Lever (No Cover)	S.S. Lever w/Cover	Tee (No Cover)	Oval (w/Cover)	Short Lever (No Cover)	Plated Steel Lkg. Lever w/Cover	S.S. Locking Lever w/Cover
V500P (501, 502, 506, 510, 590, 591)	-4	2560-10082	2566-00105		2566-00147	2566-00215	2566-00231	2560-10080	2560-10081
	-6	2560-10082	2566-00105		2566-00147	2566-00215	2566-00231	2560-10080	2560-10081
	-8	2560-10082	2566-00105		2566-00147	2566-00215	2566-00231	2560-10080	2560-10081
	-10	2560-10097	2566-00178		2566-00179			2560-10100	
	-12	2560-10097	2566-00178		2566-00179	2566-00180	—	2560-10100	2560-10101
	-16	2560-10097	2566-00178		2566-00179	2566-00180	—	2560-10100	2560-10101
	-20	2566-00143	2566-00153			—	2566-00142	2566-00135	—
	-24	2566-00143	2566-00153			—	2566-00142	2566-00135	—
	-32	2566-00143	2566-00153			—	2566-00142	2566-00135	—
V501SS & V502SS	-4	—		2566-00132	—	2566-00108	2566-00146	—	2566-00138
	-6	—		2566-00132	—	2566-00108	2566-00146	—	2566-00138
	-8	—		2566-00132	—	2566-00108	2566-00146	—	2566-00138
	-12	—		2566-00133	—	2566-00109	—	—	2566-00184
	-16	—		2566-00133	—	2566-00109	—	—	2566-00184
V502SS	-20	—		2566-00134	—		—	—	2566-00185
	-24	—		2566-00134	—		—	—	2566-00185
	-32	—		2566-00134	—		—	—	2566-00185
V500CS & V502CS	-4	2566-00158			2566-00170	2566-00166		2566-00162	
	-6	2566-00158			2566-00170	2566-00166		2566-00162	
	-8	2566-00158			2566-00171	2566-00166		2566-00162	
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	-16				2566-00172	2566-00167		2566-00163	
	-20					2566-00168		2566-00164	
	-24					2566-00168		2566-00164	
	-32					2566-00169		2566-00165	
V506CS	-4	2566-00158			2566-00170	2566-00166		2566-00162	
	-6	2566-00158			2566-00170	2566-00166		2566-00162	
	-8							2566-00234	
	-12	—						2566-00235	
	-16	—						2566-00236	
V533P	-4	2560-10152	2566-00105		2566-00147	2566-00215	2566-00231	2560-10160	
	-6	2560-10152	2566-00105		2566-00147	2566-00215	2566-00231	2560-10160	
	-8	2560-10152	2566-00105		2566-00147	2566-00215	2566-00231	2560-10160	
	-12	2560-10153	2566-00178		2566-00179	2566-00180		2560-10168	
	-16	2560-10153	2566-00178		2566-00179	2566-00180		2560-10168	
V520P	-4				2566-00277			2566-00262	
	-6				2566-00277			2566-00262	
	-8				2566-00277			2566-00262	
	-12				2566-00280			2566-00261	
	-16				2566-00280			2566-00261	
	-20	2566-00143	2566-00153					2566-00135	
	-24	2566-00143	2566-00153					2566-00135	
	-32	2566-00143	2566-00153					2566-00135	
	40	2566-00253							
	48	2566-00253							

Replacement Handles

	Valve	Plated Steel Lever w/Cover	S.S. Lever (No Cover)	S.S. Lever w/Cover	Tee (No Cover)	Oval (w/Cover)	Short Lever (No Cover)	Plated Steel Lkg. Lever w/Cover	S.S. Locking Lever w/Cover
V500HP, V506HP, V507HP	-4							BVHPLK-1[A]	
	-6							BVHPLK-1[A]	
	-8							BVHPLK-1[A]	
	-12							BVHPLK-2[A]	
	-16							BVHPLK-2[A]	
	-20							BVHPLK-3[A]	
	-24							BVHPLK-3[A]	
	-32							BVHPLK-3[A]	

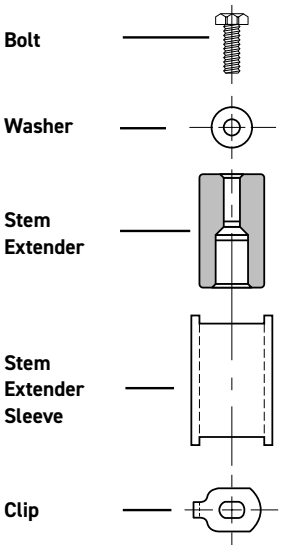
[A] Locking kit for use with standard handles

Replacement Handle Nuts

Valve	Plated Steel	Stainless Steel
V500P-4	2567-00020	2567-00023
V500P-6	2567-00020	2567-00023
V500P-8	2567-00020	2567-00023
V500P-12	2567-00055	2567-00057
V500P-16	2567-00055	2567-00057
V500P-20	2567-00051	2567-00052
V500P-24	2567-00051	2567-00052
V500P-32	2567-00051	2567-00052
V500CS-4	2567-00020	2567-00023
V500CS-6	2567-00020	2567-00023
V500CS-8	2564-00020	2567-00023

Replacement Handle Covers

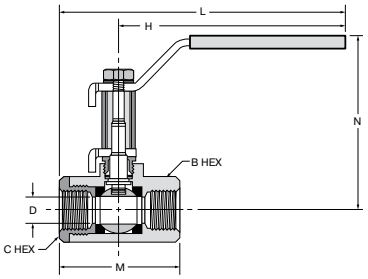
Valve	Lever	Short Lever	Tee
V500P-4	2569-00108	2569-00342	2569-00155
V500P-6	2569-00108	2569-00342	2569-00155
V500P-8	2569-00108	2569-00342	2569-00155
V500P-12	2569-00296		2569-00155
V500P-16	2569-00296		2569-00155
V500P-20	2569-00229		
V500P-24	2569-00229		
V500P-32	2569-00229		
V502SS-4		2569-00203	
V502SS-6		2569-00203	
V502SS-8		2569-00203	



STX	Stem Extension Kit
P	For Use on Brass Ball Valves
1	1: ¼" thru ½" valves 2: ¾" thru 1" valves
125	125: 1¼" extension length 225: 2¼" extension length

Note: Stem extensions cannot be used with series 509 and series 520.



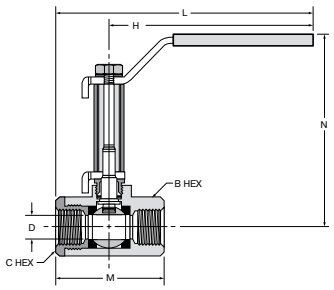


Brass Valve Extension Dimensions STX-P-1-125

Part No.	Valve Size	B Hex	C Hex	H	L	M	N	D Flow Ø
STX-P-1-125	1/4	15/16	15/16	3.96	4.96	2.03	3.73	.375
STX-P-1-125	3/8	15/16	15/16	3.96	4.96	2.03	3.73	.375
STX-P-1-125	1/2	1-1/16	1-1/16	3.96	5.05	2.20	3.84	.500
STX-P-2-125	3/4	1-1/4	1-5/16	3.96	5.25	2.42	4.06	.685
STX-P-2-125	1	1-1/2	1-9/16	3.96	5.89	2.75	4.33	.875

Note: Drawing shows STX-P assembled to XV500P series-not included





Brass Valve Extension Dimensions STX-P-1-225

Part No.	Valve Size	B Hex	C Hex	H	L	M	N	D Flow Ø
STX-P-1-225	1/4	15/16	15/16	3.96	4.96	2.03	4.73	.375
STX-P-1-225	3/8	15/16	15/16	3.96	4.96	2.03	4.73	.375
STX-P-1-225	1/2	1-1/16	1-1/16	3.96	5.05	2.20	4.84	.500
STX-P-2-225	3/4	1-1/4	1-5/16	3.96	5.25	2.42	5.06	.685
STX-P-2-225	1	1-1/2	1-9/16	3.96	5.89	2.75	5.33	.875

Note: Drawing shows STX-P assembled to XV500P series-not included

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



ACCESSORIES

Accessories, Blow Guns, Silencers, Bins & Copper Tubing

BLOW GUNS

Controlled Pressure Blow Guns

Parker Controlled Pressure Blow Guns meet OSHA requirements (section 29 CFR 1910.242 paragraph b), and directive #100-1. "Compressed air shall not be used for cleaning purposes except where reduced to less than 30 psi, and then only with effective chip guarding and personal protective equipment."

Parker Controlled Pressure Blow Guns have a black epoxy coated zinc body and vented nozzles to prevent pressure build-up when dead ending occurs up to 150 PSI (10.3 bar).

Specifications		
Part No.	Maximum Pressure PSI (bar)	Wt (lb) P/Piece
410-S	150 (10.3)	.50
410-SV	150 (10.3)	.53
415-S	150 (10.3)	.48



410-S

Parker Controlled Pressure Blow Guns features thumb lever valve actuator and brass nozzle. Inlet port is 1/4" NPT.



410-SV

Parker Venturi Nozzle Controlled Pressure Blow Gun with thumb lever valve and large venturi side ports for high volume flow. Inlet port is 1/4" NPT.



415-S

Parker Controlled Pressure Blow Guns features push button valve actuator and brass nozzle. Inlet port is 1/4" NPT.

Full Pressure Blow Guns

The following Parker Blow Guns must have a pressure regulator setting below 30 psi to conform to OSHA safety requirements 29 CFR 1910.242 Paragraph b.

Specifications		
Part No.	Maximum Pressure PSI (bar)	Wt. (lb) P/Piece
410	150 (10.3)	.48
410-N	150 (10.3)	.51
415-N	150 (10.3)	.49



410

Parker two way thumb lever valve has a zinc body with 1/4" NPT inlet and 1/8" NPSF outlet.

Note: Standard Gun without nozzle.



410-N

Parker thumb lever style Blow Gun features a zinc body, brass nozzle, and 1/4" NPT female inlet.



415-N

Parker Blow Gun features a push button style actuator, zinc body with a brass nozzle and 1/4" NPT female inlet.

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410/415 Blow Gun Tip Options

Part No.	Description	Meets OSHA Requirements
400-T06S	6" SAFETY EXTENSION	YES
400-T10S	10" SAFETY EXTENSION	YES
400-T12S	12" SAFETY EXTENSION	YES
400-T18S	18" SAFETY EXTENSION	YES
400-T24S	24" SAFETY EXTENSION	YES
400-TR	RUBBER TIP	NO
400-TS	HEX SAFETY TIP	YES
400-TSV	BOOSTER SAFETY TIP	YES
400-S-TIP	BLOW GUN REPLACEMENT TIP	



BG Series Blow Gun

Made from impact resistant plastic, BG 442 Series blow gun is durable and versatile. Extended nozzle allows air to be directed where it is required. The pistol grip trigger allows greater control over the amount of air delivered. Combined, these two features provide superior performance in a light weight, ergonomically designed package.

Standard nozzle meets OSHA directives on the use of compressed air for cleaning purposes. OSHA directive #100-1 states that "when dead ending occurs a static pressure at the main orifice shall not exceed 30 psi."

- Easy to control variable flow pistol grip trigger.
- Standard nozzle meets OSHA directive #100-1
- Lightweight ergonomical design.
- Body is constructed of impact resistant plastic.

Specifications	
Rated Pressure PSI	175 (12.0 bar)
Temperature Range	TO +120° F (+48.8° C)
Inlet Port	1/4" NPTF

Nomenclature	
Example: BG442-SBL	Attribute:
BG	BG Series Blow Gun
4	inlet port in 16ths
42	Nozzle Style 42 - Extended (OSHA)
S	Meets OSHA requirements S - Yes N - No
BL	Color BL - black

BG442-SBL BG Series Blow Gun

Part No.	Nozzle	Meets OSHA Requirements
BG442-SBL	EXTENDED	YES



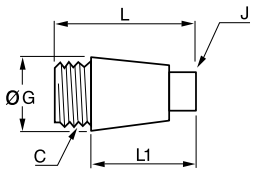
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SILENCERS

Technical Specification of Silencers:

material	Working Pressure	Working Temperature
SINTERED BRONZE	175 PSI (12.0 bar)	-4° to +300° F (-20° to +148.8° C)
POLYETHYLENE	145 PSI (9.9 bar)	-14° to +175° F (-25.5° to +79.4° C)
STAINLESS STEEL	175 PSI (12.0 bar)	-4° to +355° F (-20° to +179.4° C)





0673 0610 0670 Threaded Silencer UNF, NPT or BSPP Sintered Bronze

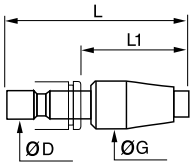
Part No.	C UNF/NPT	J (in)	G (in)	L (in)	L1 (in)	Wt (oz)
0673 00 20*	10-32	.27	.31	.34	.18	.07
0610 00 11	1/8	.31	.42	.89	.71	.21
0610 00 14	1/4	.39	.59	1.10	.87	.46
0610 00 18	3/8	.51	.75	1.42	1.14	.85
0610 00 22	1/2	.59	.91	1.73	1.42	1.48

Part No.	C BSPP	J (mm)	G (mm)	L (mm)	L1 (mm)	Wt (kg)
0670 00 10	G1/8	7	12	20.5	15	.007
0670 00 13	G1/4	8	15	24.5	18.5	.013
0670 00 17	G3/8	10	19	37	29	.033
0670 00 21	G1/2	14	23	40	31	.049
0670 00 27	G3/4	16.5	29.5	51	40.5	.092
0670 00 34	G1	20	36	60	49.5	.140

* Brass Body

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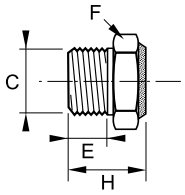




0671 Plug-In Silencer Body Nickel Plated Brass Sintered Bronze

Part No.	C	G (mm)	L (mm)	L1 (mm)	Wt (oz)
0671 04 00	4	13	41.5	24.5	.015
0671 06 00	6	15	48	29	.023
0671 08 00	8	15	49.5	29.5	.024
0671 10 00	10	19.5	68	43.5	.054
0671 12 00	12	20	68.5	43	.055

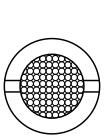


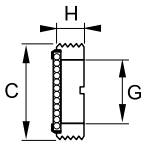


0673 Compact Threaded Silencer Male BSPP, M5
Body Nickel Plated Brass Sintered Bronze

Part No.	C	E (mm)	F (mm)	H (mm)	Wt (oz)
0673 00 10	G1/8	4	13	12	.006
0673 00 13	G1/4	6	16	16	.012
0673 00 17	G3/8	8	19	17	.022
0673 00 19	M5X0.8	8	8	8.5	.001
0673 00 20	UNF 10-32	4	6	11	.006
0673 00 21	G1/2	9	24	18	.037





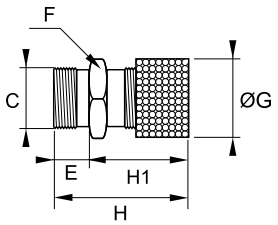


0677 Miniature Silencer BSPP Body Nickel Plated Brass Sintered Bronze

Part No.	C	G (mm)	H (mm)	Wt (oz)
0677 00 10	G1/8	5.5	4	.002
0677 00 13	G1/4	6	4.5	.003
0677 00 17	G3/8	9.5	5	.006
0677 00 21	G1/2	12.5	5.5	.012
0677 00 27	G3/4	19	6	.014
0677 00 34	G1	24	7	.025

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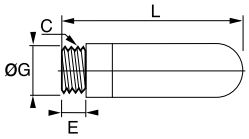


0672 Flow Control Silencer Male NPT, BSPP
Brass Body, Silencer Sintered Bronze

Part No.	C BSPP	E (mm)	F (mm)	G (mm)	H min	H max	H1 (mm)	Wt (kg)
0672 00 10	1/8	8	14	14	24	27	18	.012
0672 00 13	1/4	8	17	17	25	28	19	.023
0672 00 17	3/8	10	22	22	30	33	24	.033
0672 00 21	1/2	12	27	27	39	42	33	.044

Consult us for flow characteristics

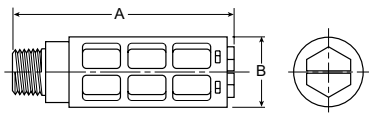




0674 Threaded Silencer NPT, BSPP, M5 Polyethylene Body, Plastic Thread

Part No.	C BSPP	E (mm)	G (mm)	L (mm)	Wt (oz)
0674 00 19	M5X0.8	4	6.5	23	.001
0674 00 10	G1/8	6	12.5	34	.002
0674 00 13	G1/4	7	15.5	42.5	.003
0674 00 17	G3/8	11.5	18.5	67.5	.006
0674 00 21	G1/2	11	23.5	78	.010
0674 00 27	G3/4	15.5	38.5	131	.040
0674 00 34	G1	19.5	49	160	.050





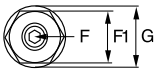
ASN Air Line Silencer – Plastic

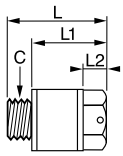
							Sound Pressure Level (dBA)	
Part No.	Thd Size	A (in)	A (mm)	B (in)	B (mm)	Maximum Flow (SCFM)*	20 PSIG Inlet	100 PSIG Inlet
AS-5	M5	0.43	11	0.32	8	15	69	79
ASN-6	1/8 NPT	1.57	40	0.63	16	51	69	81
ASN-8	1/4 NPT	2.56	65	0.83	21	124	67	84
ASN-10	3/8 NPT	3.35	85	0.98	25	247	83	98
ASN-15	1/2 NPT	3.74	95	1.18	30	370	69	96

*Based on a 100 PSIG Inlet

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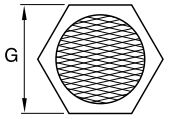
0676 Flow Control Silencer BSPP Polyethylene/Plastic

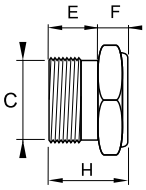
Part No.	C BSPP	F (mm)	F1 (mm)	g (mm)	L (mm)	L1 (mm)	L2 (mm)	Wt (oz)
0676 00 10	G1/8	2.5	13	15	20.5	14.5	5	.002
0676 00 13	G1/4	4	15	18	29	22	7	.007

	Flow scfm at 87 psi										Noise Level dba*
No. of Turns	0	1	2	3	4	5	6	7	8	9	
0676 00 10	0	1.06	3.2	7.4	11.8	13	13.8	13.8	13.9	13.9	82
0676 00 13	0	.78	.88	1.77	12	26.5	33	34.6	35.3	36	84

* dBA at 87 PSI and 12 SCFM



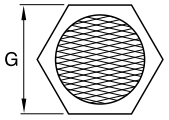


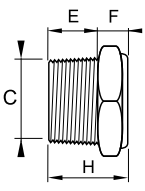


0682 Stainless Steel Threaded Silencer Male BSPP Body Stainless Steel 316L

Part No.	C BSPP	E (mm)	F (mm)	G (mm)	H (mm)	Wt (kg)
0682 00 10	G1/8	8	7	14	15	.009
0682 00 13	G1/4	8	7	17	15	.013
0682 00 17	G3/8	10	8	22	18	.020
0682 00 21	G1/2	12	10	27	22	.038
0682 00 27	G3/4	15	12	32	27	.066
0682 00 34	G1	18	14	38	32	.118







0683 Stainless Steel Threaded Silencer Male NPT Body Stainless Steel 316L

Part No.	C NPT	E (in)	F (in)	G (mm)	H (in)	Wt (kg)
0683 00 11	1/8	.28	.28	14	.55	.35
0683 00 14	1/4	.43	.28	17	.71	.53
0683 00 18	3/8	.43	.31	22	.75	.81
0683 00 22	1/2	.59	.39	27	.98	1.55

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BINS, BAGS & COPPER TUBING

16 Compartment Large Scoop Box



- Prime cold rolled steel outer shell
- High impact styrene insert with 16 compartments
- Scooped bottom compartments for easy part removal
- Full piano hinge on cover provides rigidity
- Positive pull-down catch keeps cover tightly closed to prevent part migration
- Handle allows for easy transport
- Durable gray powder coat finish

Part No.	Dimensions (in)		
	Width	Depth	Height
16-CB	18	12	3

24 Compartment Large Scoop Box



- Prime cold rolled steel outer shell
- High impact styrene insert with 24 compartments
- Scooped bottom compartments for easy part removal
- Full piano hinge on cover provides rigidity
- Positive pull-down catch keeps cover tightly closed to prevent part migration
- Handle allows for easy transport
- Durable gray powder coat finish

Part No.	Dimensions (in)		
	Width	Depth	Height
24-CB	18	12	3

ADJ-CB



- Prime cold rolled steel outer shell
- High impact styrene insert with 4 fixed vertical compartments and 9 moveable dividers adjustable on 1" centers
- Full piano hinge on cover provides rigidity
- Positive pull-down catch keeps cover tightly closed to prevent part migration
- Durable gray powder coat finish

Part No.	Dimensions (in)			Compartments
	Width	Depth	Height	
ADJ-CB	18	12	3	ADJUSTABLE

Easy Glide Slide Rack (Holds 4 16-CB or 24-CB per rack)



- Sturdy construction using prime cold-rolled steel
- Each cradle holds up to 40 lbs
- Easy glide slides allow boxes to move in and out smoothly
- Center braces on cradles provide extra rigidity
- Reinforced rack keeps boxes level
- Boxes can be easily removed for transport to work areas
- Base and locking hinge are available as accessories
- Durable gray powder coat finish

Part No.	Dimensions (in.)		
	Width	Depth	Height
4CB-SR	20	15.75	15

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LSR-Stand

- Sturdy all steel construction
- Raises units 15 inches off the floor
- Legs attach easily using fasteners provided
- Durable gray powder finish



Part No.	Dimensions (in)		
	Width	Depth	Height
LSR-STAND	20 5/8	16 1/4	15 5/8

9 Drawer Cabinet

- Prime cold rolled steel construction
- High density drawer cabinet, easy to store large quantities of small parts
- Drawers feature interlocking design for superior strength
- Drawers have full width handles and easy glide runners
- Each drawer includes 2 easy label dividers, which are adjustable on 1" centers
- Cabinets can be stacked using mounting holes
- Durable gray powder coat finish
- Ships fully assembled



Part No.	Dimensions (in)			Drawer Dimensions (in)		
	Width	Depth	Height	Width	Depth	Height
9-DC	17.25	11.625	10.875	5.375	11.25	2.75

18 Drawer Cabinet

- Prime cold rolled steel construction
- High density drawer cabinet, easy to store large quantities of small parts
- Drawers feature interlocking design for superior strength
- Drawers have full width handles and easy glide runners
- Each drawer includes 2 easy label dividers, which are adjustable on 1" centers
- Cabinets can be stacked using mounting holes
- Durable gray powder coat finish
- Ships fully assembled



Part No.	Dimensions (in)			Drawer Dimensions (in)		
	Width	Depth	Height	Width	Depth	Height
18-DC	17.25	11.625	21.25	5.375	11.25	2.75

24 Opening Bin

- All welded, prime cold rolled steel
- Fully hemmed 1 1/8" bin fronts to hold labels and retain parts
- Roll-formed sides for increased strength and stability
- Ribbed and hemmed dividers provide added strength
- Modular with most 12" deep bins and drawer cabinets; mounting holes are located at both the top and bottom
- Durable gray powder coat finish
- Ships fully assembled



Part No.	Dimensions (in)			Drawer Dimensions (in)		
	Width	Depth	Height	Width	Depth	Height
24B-CABINET	33.75	12	23.875	5.375	11.875	5.5

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40 Opening Bin

- All welded, prime cold rolled steel
- Fully hemmed 1 1/8" bin fronts to hold labels and retain parts
- Roll-formed sides for increased strength and stability
- Ribbed and hemmed dividers provide added strength
- Modular with most 12" deep bins and drawer cabinets; mounting holes are located at both the top and bottom
- Durable gray powder coat finish
- Ships fully assembled



Part No.	Dimensions (in)			Bin Dimensions (in)		
	Width	Depth	Height	Width	Depth	Height
40B-CABINET	33.75	12	23.875	3.8125	11.875	3.8125

Parker Brass Products Base Stand for 40B Cabinets

- Stands are 12" high
- Designed for use with 40B Cabinets
- Each stand includes a 15 piece bolt and nut set package for assembly



Part No.	Dimensions (in)		
	Width	Depth	Height
40B-STAND	33.75	12	23.875

Pneumatic Cabinet

- High quality all-steel construction
- Partitioning slots provide flexibility for customization
- Drawer locks limit access to prevent loss and improve safety when moved
- Drawer interlock prevent opening multiple drawers that could cause accidental tip over
- Available fitting and connector labels with photos make easy selection and restock easy
- Locking 4" heavy-duty casters
- Retainer top with a non-skid mat work surface



Part No.	Dimensions (in)			
	Width	Depth	Height	Drawers
PNEU-CAB	22.1875	28.5	39.5	5-3" AND 1-9"

Copper Tubing

Copper tubing meets A.S.T.M. specification B-280 (copper tube for refrigeration field service)



Part No.	Tube O.D.	Tube I.D.	Wall Thickness	Feet per Coil
50CT-2-30	1/8	.065	.030	50
50CT-3-30	3/16	.128	.030	50
50CT-4-30	1/4	.190	.030	50
50CT-5-32	5/16	.249	.032	50
50CT-6-32	3/8	.311	.032	50
50CT-8-32	1/2	.436	.032	50

WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



TUBE FABRICATING EQUIPMENT

Tube Cutters, Tube Benders, Flaring Tools, In-Ex® Tube Deburring Tool

Parker

Tube Cutters

For hard or soft copper, aluminum, brass, thin wall steel, stainless steel, monel, titanium and other metal tubing.Rollers have flare cut-off groove, fold away reamer and spare cutting wheel.



Part No.	Description
TC-1000-BPD	For 1/8" to 1 1/8" (4 to 28 mm) O.D. tubing, (1/8" to 1" nom.). Length: 4 15/16" Weight: 6 1/2 oz.

Tube Cutters

Adjustable tube cutters to produce square cut ends with no external burr and minimum internal burring when used on fully annealed copper, brass, aluminum, and steel tubing. Features a hardened and burnished tool-steel cutting wheel, flare cut-off grooves in rollers for removal of old flares, swing-away reamer for removing internal burrs. Handle feeds and adjusts cutting wheel to uniformly cut tubing as the cutter is rotated.

NOTE: Tube cutters are not recommended for use with stainless steel tubing because of the work hardening effect. The use of a hacksaw with a "Tru-Kut" Sawing Vise or a rotary teeth saw is best recommended for stainless steel.



Part No.	Description
PTC-001	Plastic Tube Cutter May be used with polyethylene, Polypropylene, nylon and other thermoplastic tubing. For tube O.D. sizes 1/8" to 1/2"
PTC-001RB	Replacement blades



Part No.	Description
3000 71 11	Tube cutter for tubing & push-on hose For hoses up to 1" (25mm) Weigth: 1.09 oz.
3000 71 11 05	Replacement blades

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

In-Ex® Tube Deburring Tool



Part No.	Description
226-BPD	Insert tube into the convexed end of the In-Ex for inside deburring and the opposite end for outside deburring Rotate in either direction. Replacement blades can be ordered.
	Weight: 10 oz.

⚠ WARNING These products can expose you to chemicals including NICKEL or LEAD, which are known to the state of California to cause cancer, and LEAD which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Notes

GENERAL TECHNICAL

Tubing Compatibility Chart, Manufacturing Techniques, Tube Line Fabrication Guide for Leak Free Systems, Thread Specifications, Flaring Instructions, Thread Designations and Standards for Threads Used in Fluid Connectors, Straight Thread Size Comparison Chart, S.A.E. Part Index, SAE Standards, U.L. Listed Fittings, Flow Curves, Flare and Thread Profiles, Pressure Conversions, English/Metric Conversions, Assembly Guides, Fluid Compatibility Guide

Parker

TUBING COMPATIBILITY CHART

Nomenclature

- PS Plastic Sleeve & Tube Support Recommended
- TS Tube Support Is Recommended
- BS Brass Sleeve Recommended
- CL Clamp Required
- MG Metal Gripper Collet Recommended
- Tube/Fitting Combination Compatible
- Tube/Fitting Combination Not Compatible

		Soft Metal Tubing			Parflex Thermoplastic Tubing										
					Industrial Tubing Series (Outside Diameter Shown)										
	Product Sizes (inch)	Copper	Aluminum	Steel	Polyethylene E & EB Inch (4,5,6,8,10) Metric (6,8,10,12)	Polyethylene PEFR Inch (2,5,4,6,8)	Polyethylene HDPE Inch (4,6)	Nylon N Inch (2,2.5,3,4,5,6,8) Metric (4mm - 20mm)	Nylon PAT Inch (2,4,6,8,10,12)	Nylon NR Inch (2,3,4,5,6,8)	Nylon NTNA Inch (2,2.5,3,4,5,6,8)	Polypropylene PP & PPB Inch (2,3,4,5,6,8,10)	95U/95UM Series Inch (2,2.5,4,6,8,12) Metric (4,6,8,10,12)	Polyurethane HUFR (Weld Tubing) Inch (4,6,8)	Clear Vinyl Inch (1/8" - 2 1/2")
Compression & Flare	Compression Inch (2,3,4,5,6,7,8,10,12)	BS	BS		PS TS	PS TS	PS TS	PS TS	PS TS	PS TS		PS TS			
	Compress-Align Inch (2,3,4,5,6,8,10,12,14,16)				TS	TS	TS	TS	TS	TS		TS			
	Metric Compression Metric (4,5,6,8,10,12,14,16,18,20,22,25,28)				TS			TS		TS		TS	TS		
	Poly-Tite Inch (4,5,6,8)	BS						BS				BS			
	Hi-Duty Inch (2,3,4,5,6,8,10)				TS	TS	TS	TS	TS	TS		TS			
	45 degree flare Inch (2,3,4,5,6,8,10,12,14)														
	Inverted Flare Inch (2,3,4,5,6,8,10,12)														
	Fast & Tite Inch (4,5,6,8,10)												TS		TS
Push-to-Connect	Flow Controls Inch (2,2.5,4,5,6,8) Metric (4,6,8,10,12)												TS		
	Prestolok PLP Metal Inch (2,2.5,3,4,5,6,8)														
	LF3000 / Prestolok PLP Composite Inch (2,2.5,3,4,5,6,8,10) Metric (3,4,6,8,10,12,14,16)												TS		
	LF3600 / Prestolok PLM Metal Inch (2.5,4,5,6,8) Metric (4,6,8,10,12,14)														
	LF3800 / Prestolok PLS Stainless Steel Inch (2.5,3,4,5,6,8) Metric (4,6,8,10,12)														
	Liquifit Inch (2.5,4,6,8) Metric (4,6,8,10,12)														
	TrueSeal Inch (4,5,6,8)	MG								MG		MG	TS		TS
Barb	Par-Barb Inch (2,3,4,5,6,8,10,12,16,20,24) Inside Diameter														CL
	Dubl-Barb Inch (2.5,4,6,8)														
	Hose Barb Inch (2,3,4,5,6,8,10,12,16) Inside Diameter														CL
	Garden Hose														CL
DOT Transportation	NTA Inch (3,4,6,8,10,12)														
	Transmission Fittings Inch (2,2.5)														
	Air Brake Inch (4,6,8,10,12,16)														
	Air Brake Hose Inch (6,8)														
	Vibra-Lok Inch (2,3,4,5,6,8,10,12)														
	Prestomatic Inch (4,6,8,10) Metric (6,8,10,12,16)														
	Brass PTC / Metric Prestomatic Inch (2.5,3,4,6,8,10,12)														
	Composite PTCR Inch (4,6,8,10,12)														
	SAE Cartridges Inch (4,6,8,10)														

TUBING COMPATIBILITY CHART

Parflex Thermoplastic Tubing								IHP/HPD Hose			
Transportation Tubing				Fluoropolymer Tubing							
PFT Air Brake (SAE J844) Inch (2,2.5,3,4,5,6,8,10,12)	Air Brake DIN 74324 (Nylon 12) Metric (4,6,8,10,12,15,16,18)	PFT Diesel Fuel Sizes 4,6,8,10,12	HTFL Diesel Fuel Sizes 4,6,8,10,12	PFA Inch (3/32" - 1") Metric (4mm - 12mm)	FEP Inch (1/8" - 1") Metric (3mm - 12mm)	PTFE Inch (3/32" - 1.1") Metric (3mm - 16mm)	PVDF Inch (2,3,4,5,6,8,10,12,16)	GPH General Purpose Inch (3,4,6,8,12) Inside Diameter	Parker 271 hose (SAE J1402) Inch (6.8) Inside Diameter	Product Sizes (inch)	
				PS TS	PS TS	PS TS	PS TS			Compression Inch (2,3,4,5,6,7,8,10,12)	Compression & Flare
				TS	TS	TS	TS			Compress-Align Inch (2,3,4,5,6,8,10,12,14,16)	
				TS	TS	TS	TS			Metric Compression Metric (4,5,6,8,10,12,14,16,18,20,22,25,28)	
										Poly-Tite Inch (4,5,6,8)	
										Hi-Duty Inch (2,3,4,5,6,8,10)	
										45 degree flare Inch (2,3,4,5,6,8,10,12,14)	
										Inverted Flare Inch (2,3,4,5,6,8,10,12)	
										Fast & Tite Inch (4,5,6,8,10)	
										Flow Controls Inch (2,2.5,4,5,6,8) Metric (4,6,8,10,12)	Push-to-Connect
										Prestolok PLP Metal Inch (2,2.5,3,4,5,6,8)	
										Prestolok PLP Composite Inch (2,2.5,3,4,5,6,8,10) Metric (3,4,6,8,10,12,14,16)	
										Prestolok PLM Metal Inch (2.5,4,5,6,8) Metric (4,6,8,10,12,14)	
										Prestolok PLS Stainless Steel Inch (2.5,3,4,5,6,8) Metric (4,6,8,10,12)	
										Liquifit Inch (2.5,4,6,8) Metric (4,6,8,10,12)	
				MG	MG	MG	MG			TrueSeal Inch (4,5,6,8)	
								CL		Par-Barb Inch (2,3,4,5,6,8,10,12,16,20,24) Inside Diameter	Barb
										Dubl-Barb Inch (2.5,4,6,8)	
								CL		Hose Barb Inch (2,3,4,5,6,8,10,12,16) Inside Diameter	
								CL		Garden Hose	
										NTA Inch (3,4,6,8,10,12)	DOT Transportation
										Transmission Fittings Inch (2,2.5)	
										Air Brake Inch (4,6,8,10,12,16)	
										Air Brake Hose Inch (6,8)	
										Vibra-Lok Inch (2,3,4,5,6,8,10,12)	
										Prestomatic Inch (4,6,8,10) Metric (6,8,10,12,16)	
										Brass PTC / Metric Prestomatic Inch (2.5,3,4,6,8,10,12)	
										PTC Inch (2.5,3,4,6,8,10,12)	
										SAE Cartridges Inch (4,6,8,10)	

Nomenclature

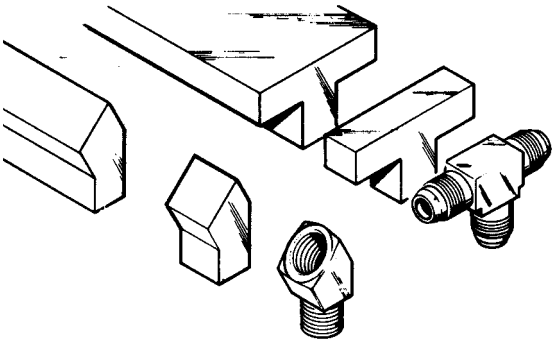
- PS Plastic Sleeve & Tube Support Recommended
- TS Tube Support Is Recommended
- BS Brass Sleeve Recommended
- CL Clamp Required
- MG Metal Gripper Collet Recommended
- Tube/Fitting Combination Compatible
- Tube/Fitting Combination Not Compatible

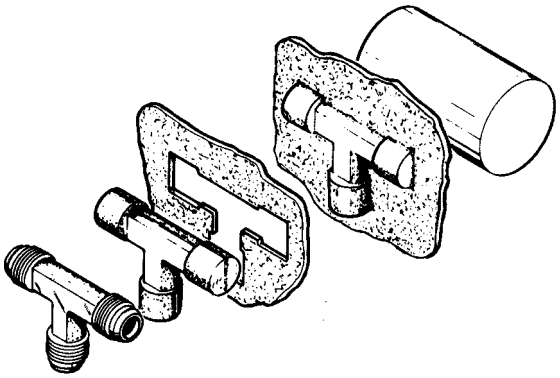
MANUFACTURING TECHNIQUES

Parker Extruded fittings

Hexagon, round and shaped bars are extruded in the configuration required, drawn to size, cut to length and straightened. First a solid round billet (8 to 12 inches in diameter) is heated to the pliable state and forced by pressure of approximately 80,000 pounds per square inch through a die. The resulting continuous length of bar is cooled and then drawn through dies to the desired external size. (The drawing process also controls the temper.) After straightening, the bar is ready for machining.

The process produces a dense, nonporous material somewhat stronger in the longitudinal direction due to an orientated flow of the grain.





Material used for Parker Brass Fittings

(Reference SAE J461)

Straight bodies:	barstock CA 360 or CA 345
Shape bodies:	extruded barstock CA 360
Shape bodies:	forged CA 377
Nuts:	barstock CA 360
Nuts:	forged CA 377

Parker Forged Fittings

Material for forgings is extruded in round bars, cut to length and straightened. (At this point in the process, forging rod differs from round extruded machinable bars only in temper and chemical properties.) After straightening, the bars are cut again into slugs (short lengths), reheated to the pliable state and pressed under a pressure of approximately 25,000 pounds per square inch between upper and lower die cavities. After cooling the flash is trimmed away and the forging blank is ready for machining.

This process of forming under extreme pressure produces a uniformly dense material of exceptional strength. Because grain flow follows the contour, the fitting has high impact strength and is more resistant to mechanical shock and vibration.

Of the major brass fittings producers, only Parker offers elbows and tees machined from both extruded and forged shapes.

TUBE LINE FABRICATION GUIDE FOR LEAK FREE SYSTEMS

Every hydraulic, pneumatic and lubrication system requires some form of tube line fabrication and fitting installation for completion. Proper fabrication and installation are essential for the overall efficiency, leak free performance, and general appearance of any system.

Start by planning ahead. After sizing the tube lines and selecting the appropriate style of fitting, consider the following in the design of your system:

1. Accessibility of joints
2. Proper routing of lines
3. Adequate tube line supports
4. Available fabricating tools

Routing of Lines

Routing of lines is probably the most difficult yet most significant of these system design considerations. Proper routing involves getting a connecting line from one point to another through the most logical path.

Always try to leave fitting joints as accessible as possible. Hard to reach joints are hard to assemble and tighten properly. Inaccessible joints are also more difficult and time consuming to service.

The most logical path should have the following characteristics:

- **Avoid excessive strain on joint** — A strained joint will eventually leak. (See Figures A14 through A21.)
- **Allow for expansion and contraction** — Use a "U" bend or a hose in long lines to allow for expansion and contraction. (See Figure A22.)
- **Allow for motion under load** — Even some apparently rigid systems do move under load. (See Figure A23.)
- **Get around obstructions without using excessive amount of 90° bends** — Pressure drop due to one 90° bend is greater than that due to two 45° bends. (See Figures A24 and A25.)
- Keep tube lines away from components that require regular maintenance. (See Figures A26 and A27.)
- Have a neat appearance and allow for easy troubleshooting, maintenance and repair. (See Figures A28 and A29.)

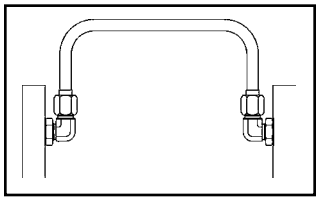


Fig. A14 — Correct Routing

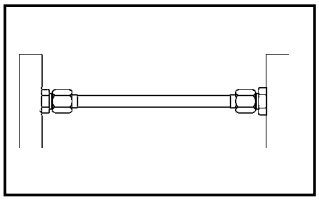


Fig. A15 — Incorrect Routing

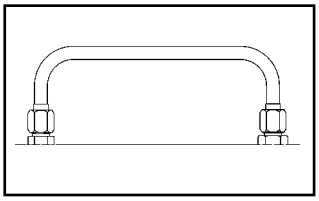


Fig. A18 — Correct Routing

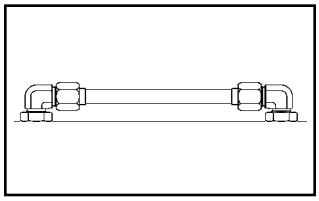


Fig. A19 — Incorrect Routing

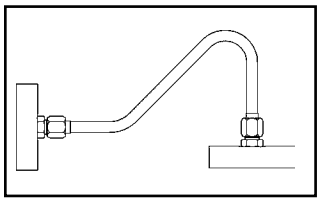


Fig. A16 — Correct Routing

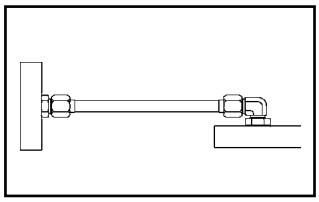


Fig. A17 — Incorrect Routing

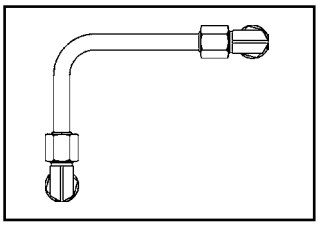


Fig. A20 — Correct Routing

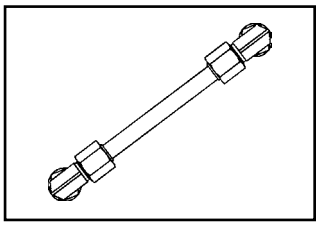


Fig. A21 — Incorrect Routing

(continued next page)

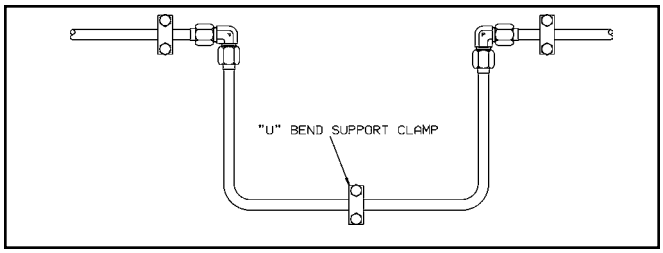


Fig. A22 — U-Bend Allowing Expansion and Contraction

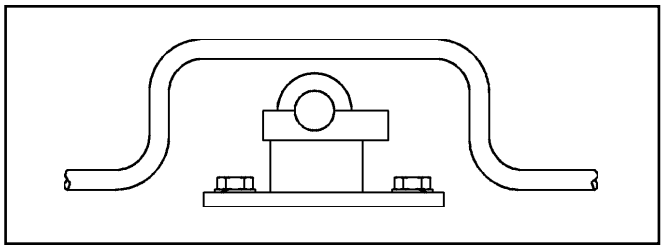


Fig. A25 — Incorrect

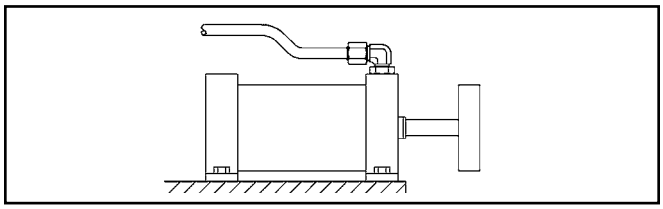


Fig. A23 — Bent Tube Allowing for Motion Under Load

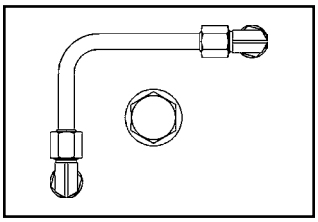


Fig. A26 — Correct

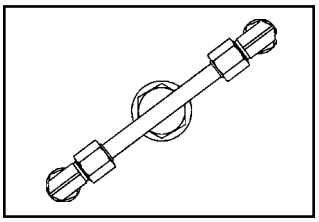


Fig. A27 — Incorrect

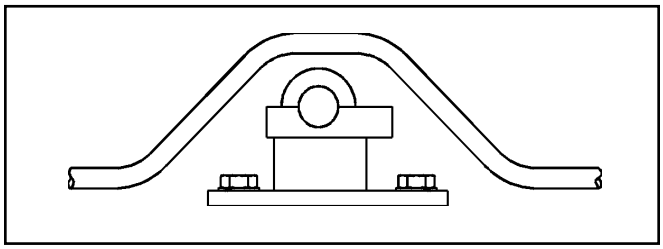


Fig. 24 — Correct

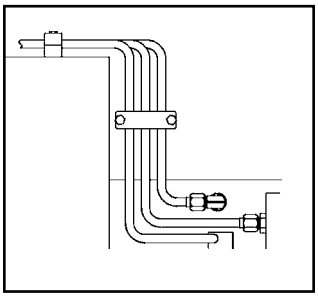


Fig. A28 — Correct

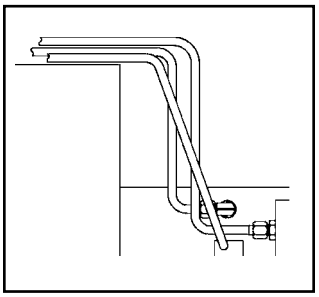


Fig. A29 — Incorrect

THREAD SPECIFICATIONS

Dryseal Pipe Threads

All dryseal pipe threads are manufactured in accordance with the American National Standards Institute (ANSI) B1.20.3 specification and designed to seal pressure tight joints. The threads may incorporate the NPTF (National Standard Pipe Taper Fuel and Oil), PTF-SAE Short, PTF-SPL Short or PTF-SPL Extra Short form. Dryseal threads are used on brass products found within this catalog. Use of a thread sealant is recommended.

Non-Dryseal Pipe Threads

All non-dryseal pipe threads are manufactured in accordance with the American National Standards Institute (ANSI) B1.20.1 specification. These tapered pipe threads are used on our carbon and stainless steel products. Use of a thread sealant is recommended.

Nickel Plating

Nickel Plating is optional on standard product. Specifications for plating are not considered when standard product is manufactured. Since plating will alter thread pitch diameters, all plated threads should be qualified by functional fit with mating parts and not by standard thread gauging. Consult factory on plated product that will be qualified by standard thread gauging. These should be ordered as non-standards so product can be machined to pre-plated specifications.

Nickel plating provides a corrosion resistant coating which is desirable in many applications. Electrolytic nickel plating is the standard plating supplied unless otherwise specified. This will provide a uniform coverage of external surfaces; however, internal surfaces may be uncoated.

Unified Threads

All threads in the columns headed “Straight Thread” found within this catalog are manufactured in accordance with the American National Standards Institute (ANSI) B1.1 specification.

British Standard Pipe Threads BSPT and BSPP

Pressure Tight

The British pipe threaded products found within this catalog intended for use where pressure tight joints are made on the threads are manufactured in accordance with British Standard (BS) 21 and International Standards Organization (ISO) 7-1. The threads are designated as follows:

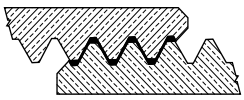
- Rp: Internal parallel
- Rc: Internal taper
- Rs: Special external parallel
- R: External taper

Use of a thread sealant is recommended with the R series thread. An elastomeric peripheral seal should be used with the Rs thread.

Non-Pressure Tight

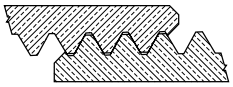
All British Standard parallel pipe threads manufactured in this catalog according to BS2779 and ISO 228-1 are intended for use where pressure tight joints are not made on the threads. An elastomeric peripheral seal should be used. These threads are designated as follows:

- G: Internal Thread
  GA, External thread, tight tolerance classification
  GB, External thread, general purpose and assumed if no classification designation is given



Dryseal Pipe Thread

Metal to metal contact. Crests of thread are crushed by the roots when wrench-tightened to form seal.



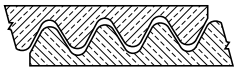
Non-Dryseal Pipe Thread

Flanks are in contact with possible clearance between the roots and crests. Will not prevent spiral leakage



BS21 British Standard Pipe Thread for Pressure Tight Joints

Metal to metal contact provides seal as tapered thread is wrench-tightened.



BS2779 British Standard Pipe Thread for Non-Pressure Tight Joints

Thread tolerances allow for possible clearance between threads. Will not prevent leakage paths.

Pipe Thread Assembly

The two British Standard pipe thread forms used for Parker's standard product are manufactured in a tighter tolerance range than required by the standards in order to facilitate the assembly and mating of fittings produced by the two different standards. In general, BS21 threads do not necessarily mate with BS2779 threads at tolerance overlap conditions, but fittings located within this catalog can be assembled as follows:

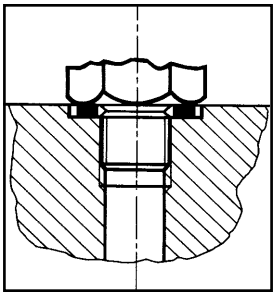
External Thread	Mating Internal Thread
G-BS2779 (parallel)	G-BS2779 (parallel) Rp-BS21* (parallel)
Rs-BS21 (parallel)	Rp-BS21 (parallel) G-BS2779 (parallel)
R-BS21 (taper)	Rp-BS21 (parallel) Rc-BS21 (taper) G-BS2779 (parallel)

*This thread must be manufactured within a reduced tolerance range to always assemble with the G series external thread.

British Standard ISO Metric Screw Threads

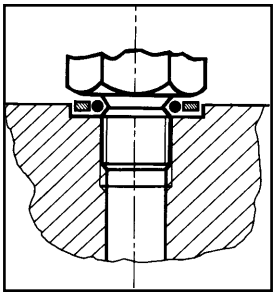
They are commonly used in miniature pneumatic applications because of the availability of small thread diameters and are also used extensively in the automotive industry. There are two forms of sealing on metric screw threads.

- O-ring sealing into a profiled port in accordance with ISO 6149.
- Peripheral sealing with a copper or bonded washer in accordance with ISO 261 and 262.



Peripheral sealing of parallel threads

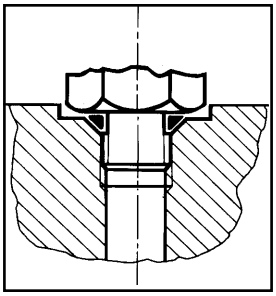
Pressure-tight joints of screwed connections with parallel threads are achieved by placing a seal between the two machined faces



Flat seals

Washers and rings are manufactured in many different materials including copper, aluminium, fiber, plastics, etc.

The tightening torque at assembly must be carefully selected so as to avoid compressing the seal to the point of extrusion. As a general rule, the fitting should be tightened with an additional 1/4 wrench turn from the fingertight position.



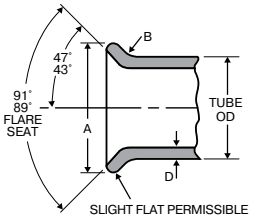
O-rings

Depending upon the configuration of the female port or male thread, O-Ring seals are fitted with or without back-up washers, and can be fully retained in a captive seal.

FLARING INSTRUCTIONS

In order to properly flare copping tubing for use with Parker 45° Flared Fittings and Inverted Flared Fittings, the following procedures and specifications should be met in preparation and make-up of flares.

1. **Cut tube with tube cutter:** To minimize the burr and workhardening, use a light feed on the cutting wheel and make several revolutions.
2. **Ream the tubing:** Cutting with a tube cutter will always create a burr. The burr must be removed to obtain maximum sealing surface. Remove only the burr, do not remove material from the original wall thickness. Also clean the tube end thoroughly to remove burrs.
3. **Flare tubing:** Flare with a compression or generating type flaring tool. Follow tool manufacturer's instructions for: (a) positioning the tube in tool and (b) for the correct number of turns on the feed handle.
4. **Inspect tubing:** The flare cone should be checked for a smooth surface on the i.D. Of the cone and measure with micrometer over largest o.D. For proper size. (See dimensions below for flare size for each tubing size.)



Nominal Tube	A Single Flare Diameter		B Single Flare Radius	D Single Flare Wall Thickness
in	Max. in	Min. in	+/- 0.01 in	Max. in
1/8	.181	.171	.02	.035
3/16	.249	.239	.02	.035
1/4	.325	.315	.02	.049
5/16	.404	.388	.02	.049
3/8	.487	.471	.02	.065
7/16	.561	.545	.02	.065
1/2	.623	.607	.02	.083
9/16	.676	.660	.02	.083
5/8	.748	.732	.02	.095
3/4	.916	.900	.02	.109
7/8	1.041	1.025	.02	.109
1	1.157	1.141	.02	.120

THREAD DESIGNATIONS AND STANDARDS
for Threads Used in Fluid Connectors

	Abbreviation	Description	Applicable Std.
Straight Pipe	NPSC	American Standard Straight Pipe Threads in Pipe Couplings	ANSI B1.20.1 FED-STD-H28/7
	NPSF	Dryseal American Standard Fuel Internal Straight Pipe Threads (generally sed in soft or ductile materials to mate with NPTF external taper threads)	SAEJ476 ANSI B1.20.3 FED-STD-H28/8
	NPSI	Dryseal American Intermediate Internal Straight Pipe Threads (for brittle or hard materials; intended to mate with PTF-SAE short external taper threads)	SAE J476 ANSI B1.20.3 FED-STD-H28/8
	NPSM	American Standard Straight Pipe Threads for Free-Fitting Mechanical Joints for Fixtures (these threads fit freely over NPTF threads. They are used in swivel nuts of 07 adapters)	ANSI B1.20.1 FED-STD-H28/7

Continued next page

	Abbreviation	Description	Applicable Std.
Taper Pipe	ANPT	Aeronautical National Taper Pipe Threads (similar to NPT with various additional requirements in gaging)	MIL-P-7105
	NPT	American Standard Taper Pipe Threads for General Use	ANSI B1.20.1 FED-STD-H28/7
	NPTF	Dryseal American Standard Taper Pipe Threads (used in all of our steel and brass fittings)	SAE J476 ANSI B1.20.3 FED-STD-H28/8
	PTF - SAE Short	Dryseal SAE Short Taper Pipe Threads (mainly used in low pressure pneumatic and fuel applications)	SAE J476 ANSI B1.20.3 FED-STD-H28/8
	PTF - SPL Short[1]	Dryseal Special Short Taper Pipe Threads	ANSI B1.20.3
	PTF - SPL Extra Short[1]	Dryseal Special Extra Short Taper Pipe Threads	ANSI B1.20.3
Unified Threads	UN	Unified Constant Pitch Threads (standard series: 4, 6, 8, 12, 16, 20, 28, 32)	ANSI B1.1 ED-STD-H28/2
	UNC	Unified Coarse Threads	ANSI B1.1 FED-STD-H28/2
	UNEF	Unifed Extra Fine Threads	ANSI B1.1 FED-STD-H28/2
	UNF	Unified Fine Threads	ANSI B1.1 FED-STD-H28/2
	UNS	Unified Special Pitch Threads	ANSI B1.1 FED-STD-H28/3
	UNJ	Unified Controlled Root Radius Threads	ANSI B1.15 FED-STD-H28/4
Metric Threads	M	Metric Screw Threads — M profile	ISO 261 ANSI B1.13M FED-STD-H28/21
	M — Keg	Metric Taper Threads (mainly used in Germany)	DIN 158
British Standard	R (BSPT)	British Standard Taper Pipe Threads, External	BS 21 ISO 7/1
	Rc (BSPT)	British Standard Taper Pipe Threads, Internal	BS 21 ISO 7/1
	Rp or G (BSPP)	British Standard Pipe (Parallel) Threads	BS 2779 ISO 228/1
Japanese Standard	PF[2]	JIS Parallel Pipe Threads	JIS B202 ISO 228/1
	PT[2]	JIS Taper Pipe Threads	JIS B203 ISO 7/1
	PS	JIS Parallel Internal Pipe Threads (to mate with PT threads)	JIS B203

Table A48 — Thread Designations and Standards for Threads Used in Fluid Connectors

1. Used in some pneumatic components where shortened thread depth is required because of lack of enough material due to component size limitations.
2. PF and PT threads are functionally interchangeable with BSPP and BSPT threads, respectively.
   These are old designations. They are being replaced with G (for PF) and R and Rc (for PT) as documents are revised.

STRAIGHT THREAD SIZE COMPARISON CHART

	TUBE O.D.										
	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
SAE 45°Flared	5/16 -24	3/8 -24	7/16 -20	1/2 -20	5/8 -18	11/16 -16	3/4 -16	7/8 -14	1-1/16 -14	1-1/4 -12	-
Inverted Flared	5/16 -28	3/8 -24	7/16 -24	1/2 -20	5/8 -18	11/16 -18	3/4 -18	7/8 -18	1-1/16 -16	1-3/16 -16	-
Air Brake/NTA	-	-	7/16 -24	-	17/32 -24	-	11/16 -20	13/16 -18	1 -18	-	1-1/4 -16
Standard. Compression / Compress-Align	5/16 -24	3/8 -24	7/16 -24	1/2 -24	9/16 -24	5/8 -24	11/16 -20	13/16 -18	1 -18	1-1/8 -18	1-1/4 -18
Poly-Tite			3/8 -24	7/16 -24	1/2 -24	-	11/16 -20	-	-	-	-
Vibra-Lok	3/8 -24	-	1/2 -24	9/16 -24	5/8 -24	-	13/16 -18	1 -18	1-1/8 -18	-	-
V510 Ball Valves	-	-	7/16 -20	-	9/16 -18	-	3/4 -16	7/8 -14	1-1/16 -12	-	1-5/16 -12
Hi-Duty Flareless Tube Fittings	5/16 -24	3/8 -24	7/16 -20	1/2 -20	9/16 -20	-	11/16 -16	7/8 -18	-	-	-

S.A.E. PART INDEX

Part No.	Page
SAE 010101	H8
SAE 010102	H9
SAE 010103	H9
SAE 010104	H8
SAE 010105	H12
SAE 010106	H12
SAE 010107	H12
SAE 010108	H7
SAE 010109	H12
SAE 010110	H8
SAE 010111	H8
SAE 010112	H12
SAE 010113	H7
SAE 010114	H7
SAE 010165	H7
SAE 010166	H7
SAE 010167	H7
SAE 010201	H11
SAE 010202	H10
SAE 010203	H11
SAE 010302	H11
SAE 010401	H10
SAE 010424	H11
SAE 010425	H10
SAE 040101	H14
SAE 040102	H14
SAE 040103	H14
SAE 040110	H14
SAE 040202	H15
SAE 040203	H15
SAE 040302	H15
SAE 040401	H14
SAE 040424	H15
SAE 040425	H15
SAE 040427	H15
SAE 060101 BA	G8
SAE 060102 BA	G9
SAE 060103 BA	G9
SAE 060110	G8
SAE 060111	G8
SAE 060115	G8
SAE 060201 BA	G10
SAE 060202 BA	G10
SAE 060203 BA	G11
SAE 060401 BA	G10
SAE 060424 BA	G11
SAE 060425 BA	G11
SAE 100101 BA	F7
SAE 100102 BA	F8
SAE 100103 BA	F8
SAE 100110	F7
SAE 100115	F7
SAE 100201 BA	F8
SAE 100202 BA	F9
SAE 100203 BA	F9
SAE 100302 BA	F9
SAE 100401 BA	F8
SAE 100424 BA	F9
SAE 100425 BA	F9
SAE 120101 BA	F13
SAE 120102 BA	F13
SAE 120103 BA	F13
SAE 120111	F13
SAE 120115	F13
SAE 120201 BA	F13
SAE 120202 BA	F14
SAE 120203 BA	F14
SAE 120302 BA	F14
SAE 120401 BA	F13
SAE 120424 BA	F14
SAE 120425 BA	F14

SAE STANDARDS

(Current)

J246: Spherical and Flanged Sleeve (Compression) Tube Fittings
Tubing: Copper and J844 Nylon
Fittings: NTA and Air Brake

J476: Dryseal Pipe Threads

J512: Automotive Tube Fittings
Tubing: Copper and Nylon
Fittings: 45° Flare, Inverted Flare, Compression

J513: Refrigeration Tube Fittings
Tubing: Annealed Copper
Fittings: 45° Flare

J530: Automotive Pipe Fittings
Fittings: Pipe

J531: Automotive Pipe, Filler and Drain Plugs
Fittings: Pipe Plugs

J844: Nonmetallic Air Brake System Tubing
Tubing: Non-reinforced Type A, reinforced Type B

J1131: Performance Requirements for SAE J844 Nonmetallic
Tubing and Fitting
Assemblies Used in Automotive Air Brake Systems
Tubing: J844 Nylon
Fittings: NTA and Prestomatic

J1615: Thread Sealants

J2494: Brass Body Push-to-Connect Fittings
Tubing: J844 Nylon
Fittings: Prestomatic

U.L. LISTED FITTINGS

Many of the Fluid System Connectors Division's fittings have been listed by the Underwriter's Laboratory. The listings fall under 1 of 3 categories, depending upon application. Underwriter's requires that the smallest unit package carry the U.L. symbol and each carton be printed in accordance with the specification of each category.

List of U.L. Fittings

FITTINGS, FLAMMABLE LIQUID

1F	62C	168CA	252IFHD
2GF	62CA	169C	256IF
3GF	62CABH	169CA	259IFHD
14FL	62CBH	170C	264C
14FSV	66C	170CA	264CA
14FSX	66CA	171C	265C
41FL	68C	171CA	265CA
41FS	68CA	172C	269C
41FX	144F	172CA	269CA
41IF	145F	176C	270C
41IFS	147F	176CA	270CA
42F	149F	177C	639C
42IFHD	150F	177CA	639CA
46F	151F	244F	639F
46IFHD	155F	244IFHD	640F
48F	159F	245IFHD	660FHD
48IFHD	164C	249F	661FHD
60C	164CA	249IF	664FHD
61C	165C	249IFHD	
61CA	165CA	250IFHD	
61CL	168C	251IFHD	

FITTINGS, FUEL EQUIPMENT, MARINE

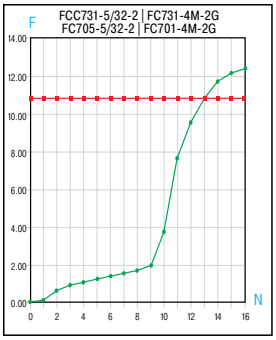
2GF	48F	150F	640F
3GF	144F	151F	660FHD
14FL	145F	155F	661FHD
42F	147F	159F	664FHD
46F	149F	639F	

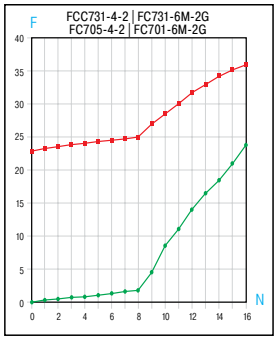
SHUT-OFF VALVES, FLAMMABLE LIQUIDS, LP GAS AND COMPRESS GAS

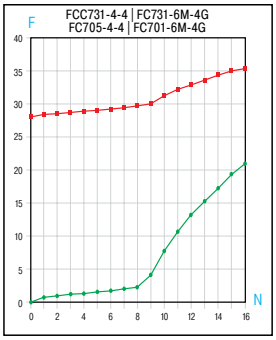
XV520P-4	XV520P-16	XV520P-40
XV520P-6	XV520P-20	XV520P-48
XV520P-8	XV520P-24	
XV520P-12	XV520P-32	

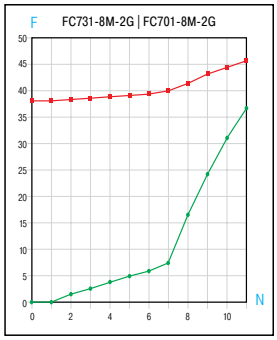
FLOW CURVES

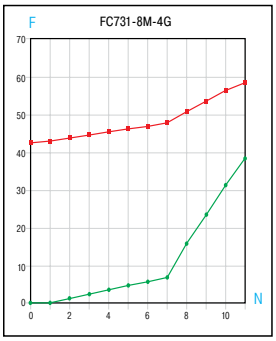
87 PSI (5.9 bar) | Return Direction | Controlled Direction | **N** = Number of Turns | **F** = Flow in SCFM

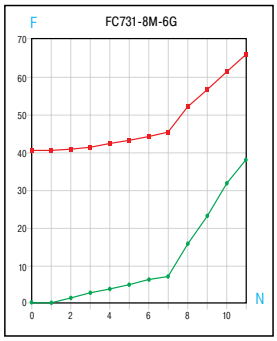


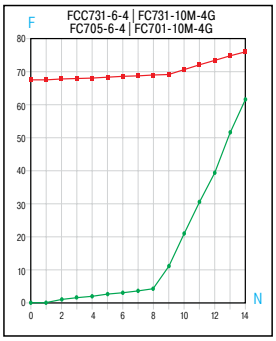


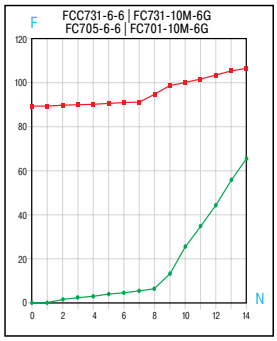


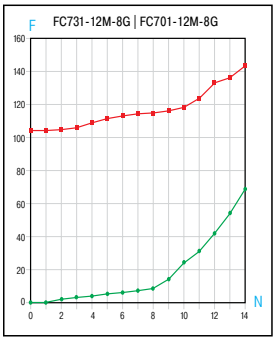


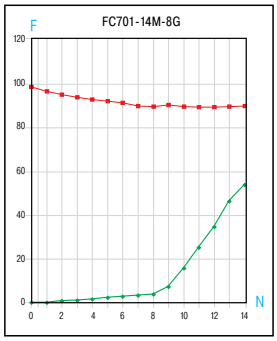


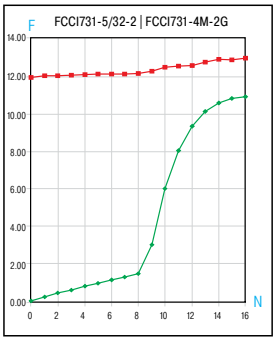


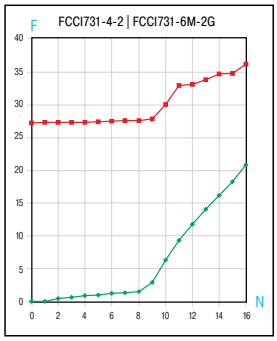


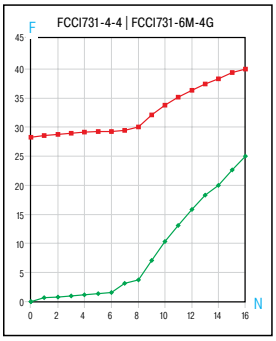


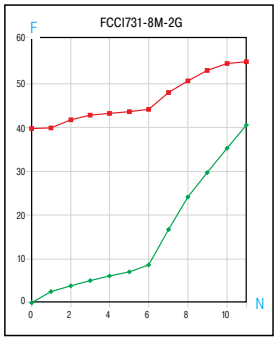


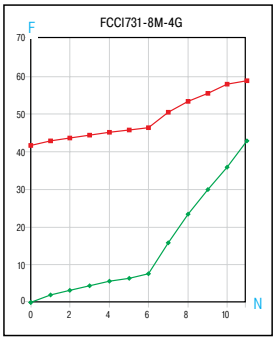


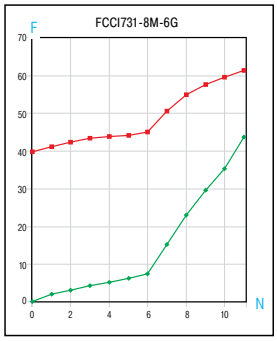




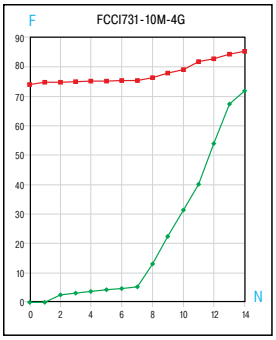


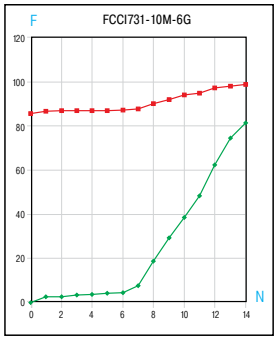


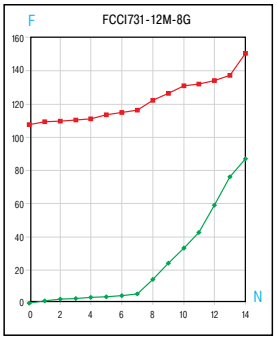


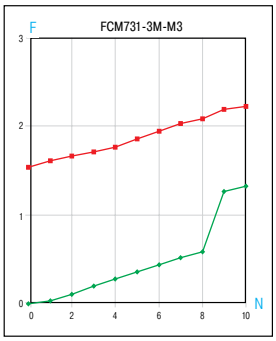


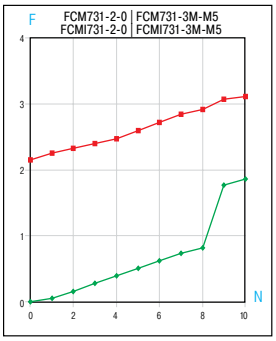
87 PSI (5.9 bar) | Return Direction | Controlled Direction | **N** = Number of Turns | **F** = Flow in SCFM

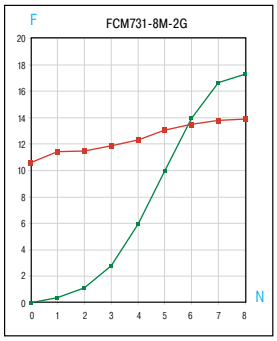


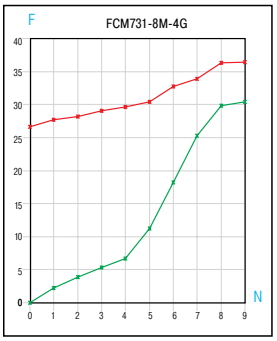


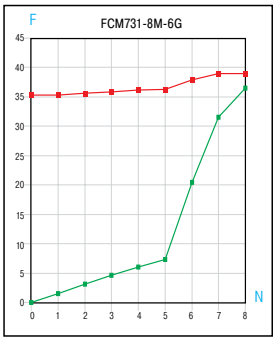


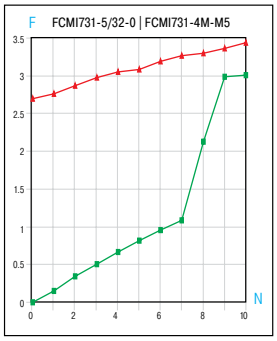


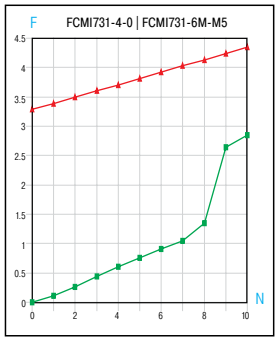


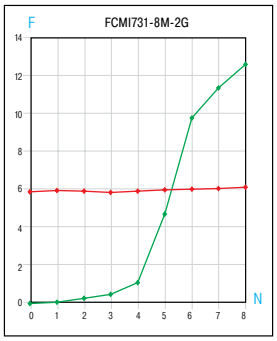


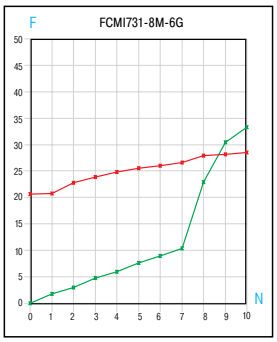


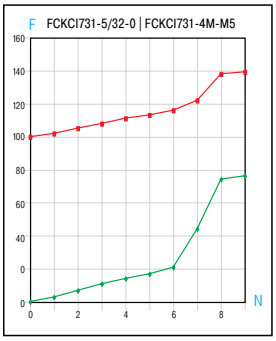


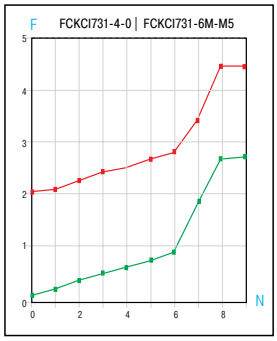


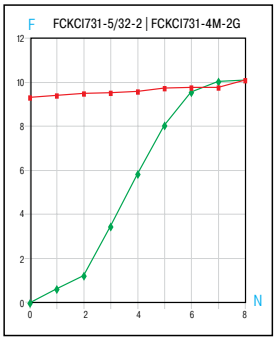


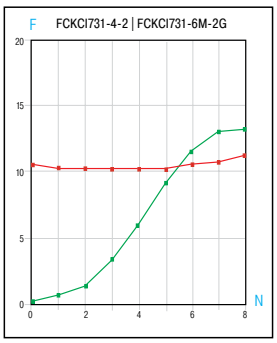




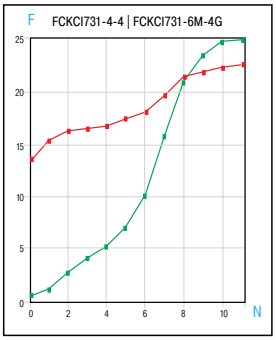


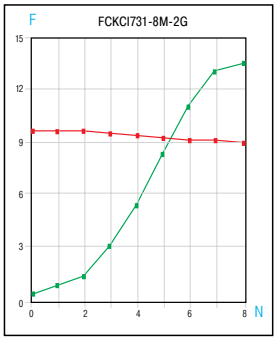


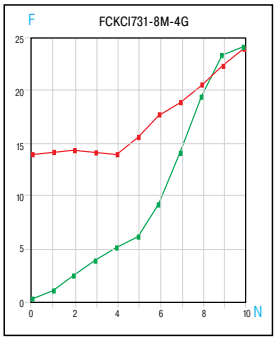


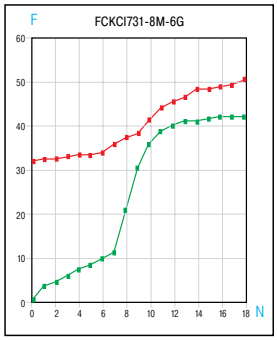


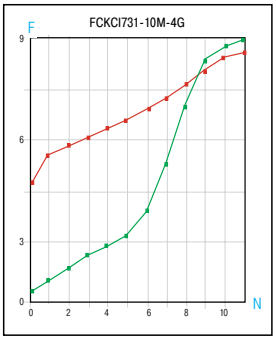
87 PSI (5.9 bar) | Return Direction | Controlled Direction | **N** = Number of Turns | **F** = Flow in SCFM

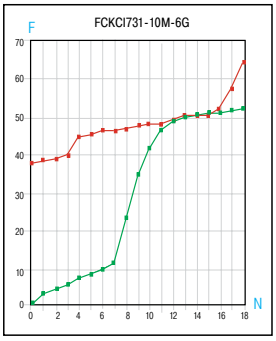


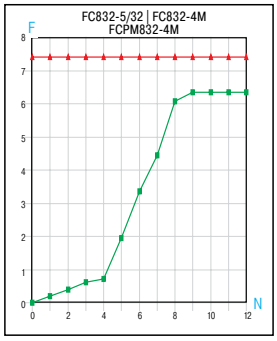


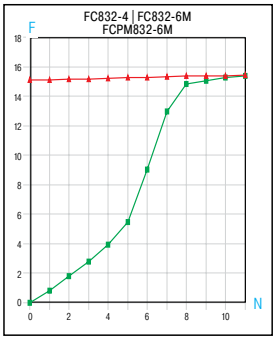


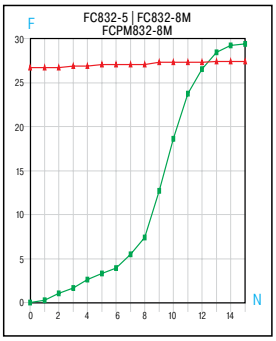


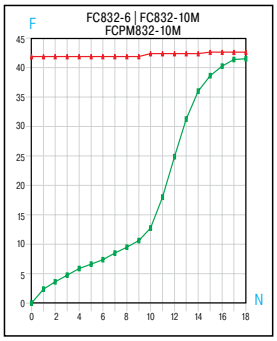


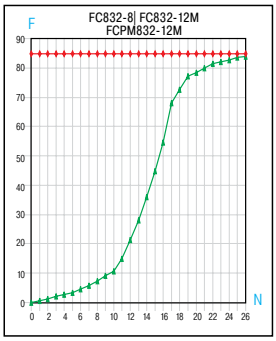




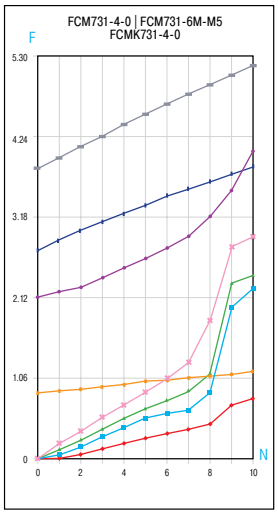


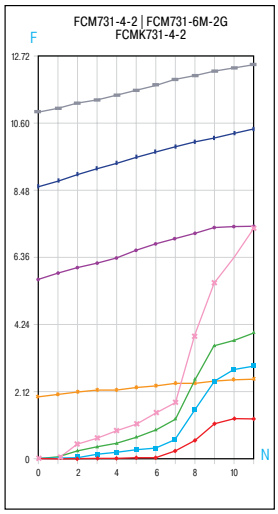


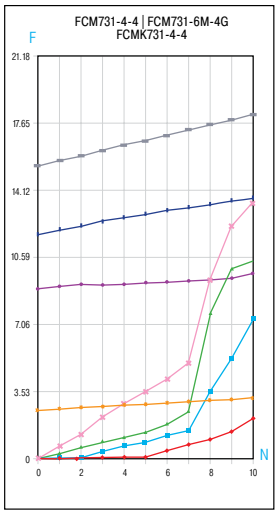


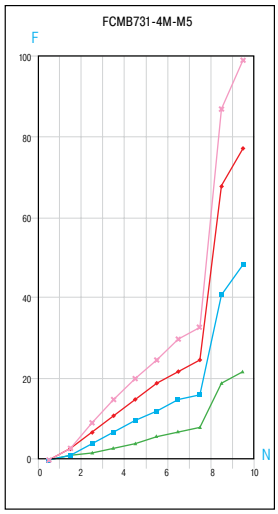


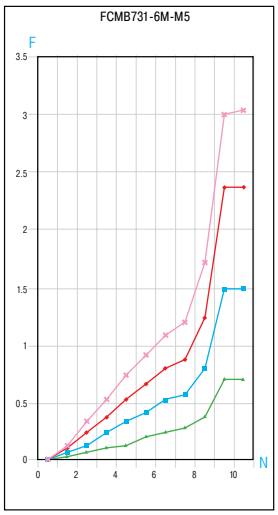
87 PSI (5.9 bar) | Return Direction | Controlled Direction | N = Number of Turns | F = Flow in SCFM

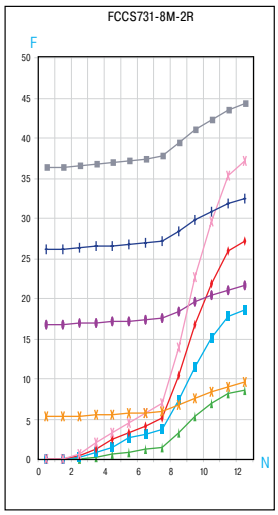


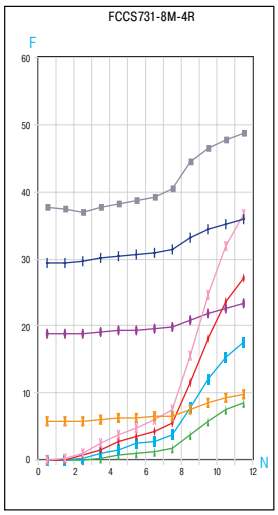


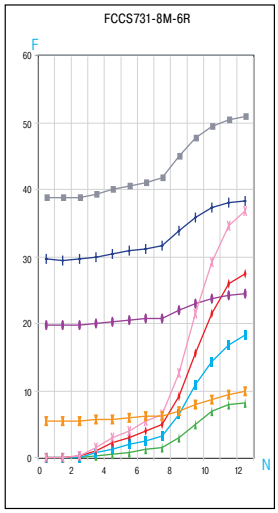


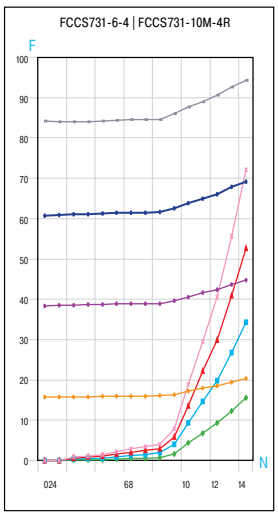


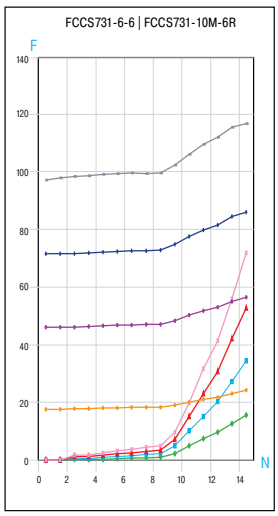


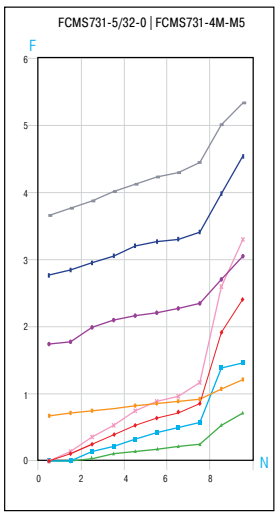


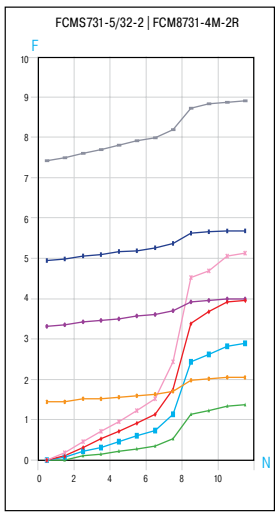






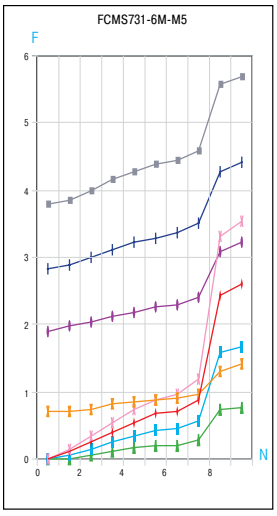


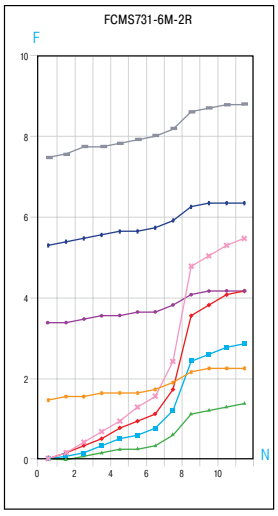


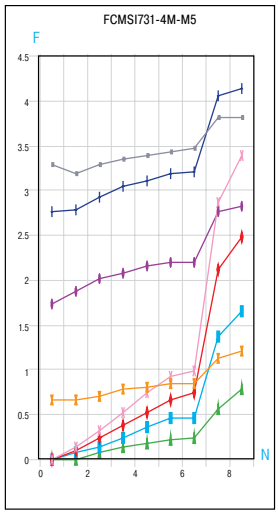


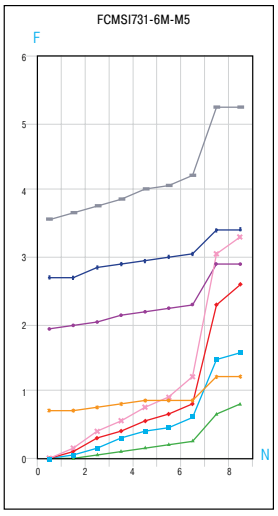
Controlled Direction – 14.5 PSI (0.9 bar)
Controlled Direction – 72.5 PSI (4.9 bar)
Return Direction – 14.5 PSI (0.9 bar)
Return Direction – 72.5 PSI (4.9 bar)
Controlled Direction – 43.5 PSI (2.9 bar)
Controlled Direction – 101.5 PSI (6.9 bar)
Return Direction – 43.5 PSI (2.9 bar)
Return Direction – 101.5 PSI (6.9 bar)

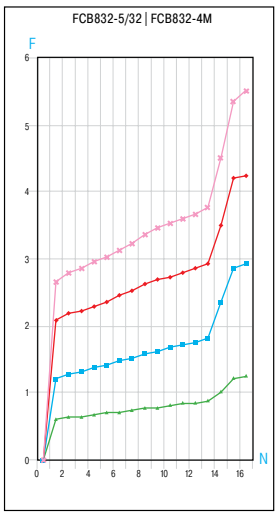
87 PSI (5.9 bar) | Return Direction | Controlled Direction | N = Number of Turns | F = Flow in SCFM

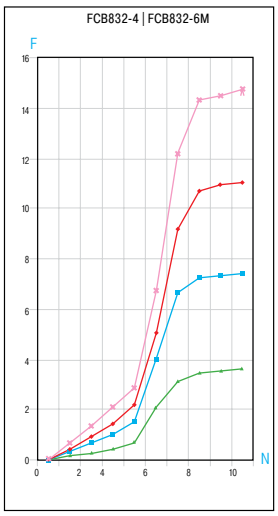


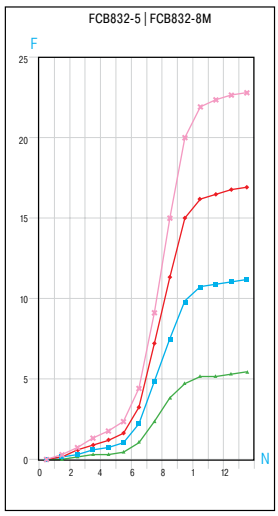










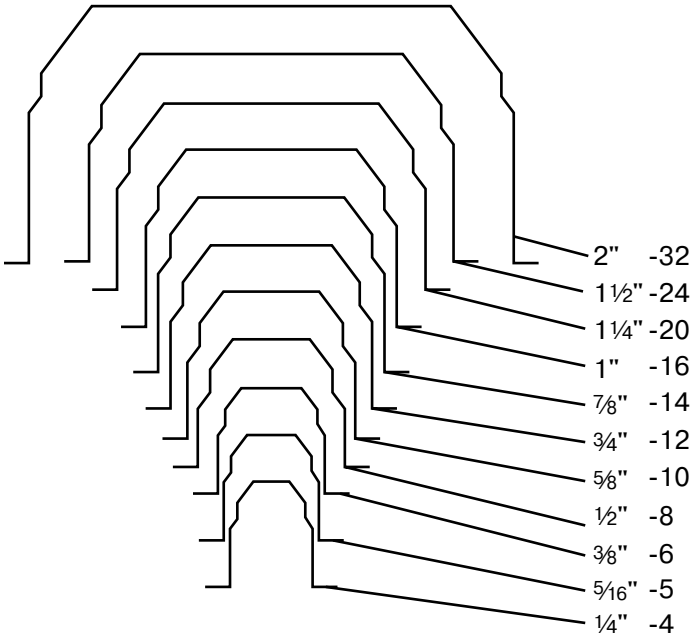


Controlled Direction – 14.5 PSI (0.9 bar)
Controlled Direction – 72.5 PSI (4.9 bar)
Return Direction – 14.5 PSI (0.9 bar)
Return Direction – 72.5 PSI (4.9 bar)
Controlled Direction – 43.5 PSI (2.9 bar)
Controlled Direction – 101.5 PSI (6.9 bar)
Return Direction – 43.5 PSI (2.9 bar)
Return Direction – 101.5 PSI (6.9 bar)

FLARE AND THREAD PROFILES

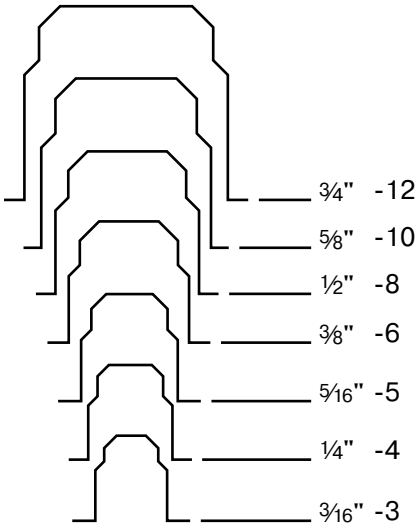
SAE (JIC) 37° FLARE NOSE SIZES

Actual Size

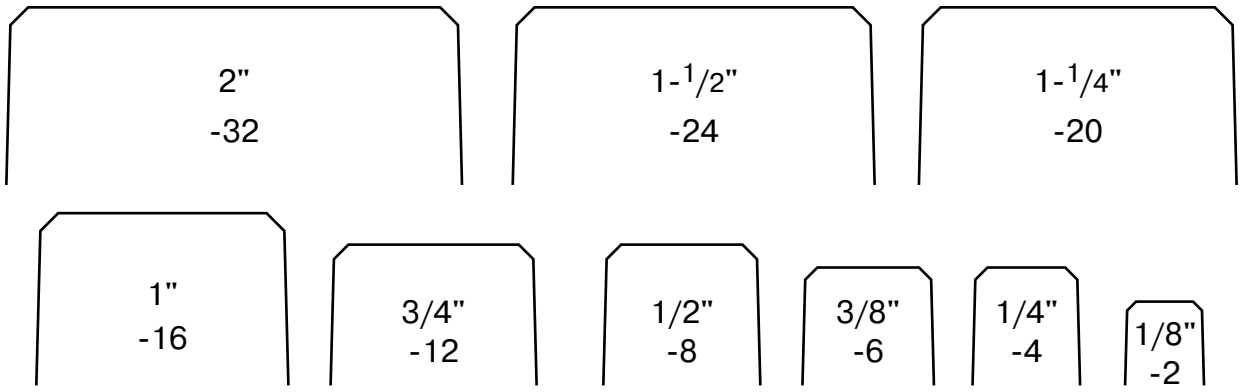


SAE 45° FLARE NOSE SIZES

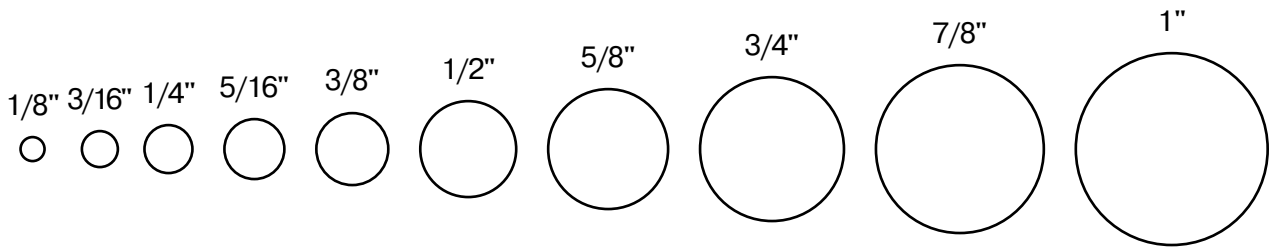
Actual Size



MALE PIPE THREAD SIZES



ACTUAL OUTSIDE DIAMETERS OF TUBING



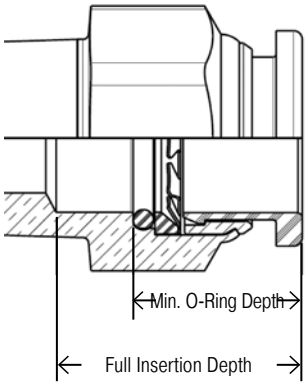
PRESSURE CONVERSIONS

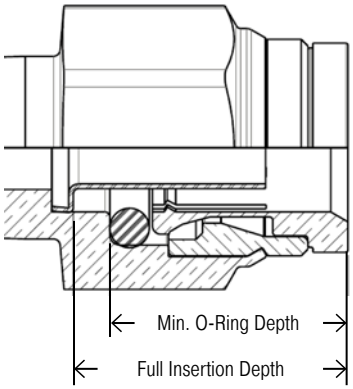
Kilopascals (KPa)	Megapascals (MPa)	Bar (bar)	Kilograms Per Square Centimeter (Kgf/cm2)	Pounds Per Square Inch (psi)
100	1.0	1	1.02	14.50
200	.2	2	2.04	29.00
300	.3	3	3.06	43.50
400	.4	4	4.08	58.00
500	.5	5	5.10	72.50
600	.6	6	6.12	87.00
700	.7	7	7.14	101.50
800	.8	8	8.16	116.00
900	.9	9	9.18	130.50
1000	1.0	10	10.20	145.00
2000	2.0	20	20.40	290.10
3000	3.0	30	30.60	435.10
4000	4.0	40	40.80	580.20
5000	5.0	50	51.00	725.20
6000	6.0	60	61.20	870.20
7000	7.0	70	71.40	1015.30
8000	8.0	80	81.60	1160.30
9000	9.0	90	91.80	1305.30
10000	10.0	100	102.00	1450.00
20000	20.0	200	204.00	2901.00
30000	30.0	300	306.00	4351.00
40000	40.0	400	408.00	5802.00
50000	50.0	500	510.00	7252.00
60000	60.0	600	612.00	8702.00
70000	70.0	700	714.00	10153.00
80000	80.0	800	816.00	11603.00
90000	90.0	900	918.00	13053.00
100000	100.0	1000	1020.00	14504.00
200000	100.0	2000	2040.00	29008.00
300000	300.0	3000	3060.00	43511.00

Pounds Per Square Inch (psi)	Kilopascals (KPa)	Megapascals (MPa)	Bar (bar)	Kilograms Per Square Centimeter (Kgf/cm2)
10	68.90	.07	.70	.70
20	137.90	.14	1.41	1.41
30	206.80	.21	2.10	2.11
40	275.80	.28	2.80	2.81
50	344.70	.34	3.40	3.52
60	413.70	.41	4.10	4.22
70	482.60	.48	4.80	4.92
80	551.60	.55	5.50	5.63
90	620.50	.62	6.20	6.33
100	689.00	.70	6.90	7.00
200	1379.00	1.40	13.80	14.10
300	2068.00	2.10	20.70	21.10
400	2758.00	2.80	27.60	28.10
500	3447.00	3.40	34.50	35.20
600	4137.00	4.10	41.40	42.20
700	4826.00	4.80	48.30	49.20
800	5516.00	5.50	55.20	56.30
900	6205.00	6.20	62.10	63.30
1000	6895.00	6.90	68.90	70.30
2000	13790.00	13.80	137.90	140.70
3000	20684.00	20.70	206.80	211.00
4000	27579.00	27.60	275.80	281.30
5000	34474.00	34.50	344.70	351.60
6000	41369.00	41.40	413.70	421.90
7000	48263.00	48.30	482.60	492.30
8000	55158.00	55.20	551.60	562.60
9000	62053.00	62.10	620.50	632.90
10000	68948.00	68.90	689.00	703.00
20000	137895.00	137.90	1379.00	1406.00
30000	206843.00	206.80	2068.00	2110.00
40000	275790.00	275.80	2758.00	2813.00

TUBE INSERTION DEPTHS

This engineering standard covers the tube insertion depths and minimum depths to pass thru the o-ring. The depths are used for conveying information to customers and are meant to be used only as a guideline.





Brass Prestolok Plus (PLP Metal)

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
1/8”	.64	.48
5/32”	.64	.48
3/16”	.67	.48
1/4"	.67	.49
5/16”	.77	.51
3/8”	.78	.51
1/2"	.85	.58

LF3600 (PLM) & LF3800 (PLS)

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
1/4"	.66	.55
3/8”	.88	.73
1/2"	.89	.74
4MM	.57	.49
6MM	.68	.57
8MM	.71	.62
10MM	.90	.75
12MM	.96	.78
14MM	1.00	.82

LF3000 (PLP Composite) & LIQUIfit

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
1/8”	.46	.38
3/16”	.65	.56
1/4"	.58	.44
3/8”	.81	.62
1/2"	1.09	.84
4MM	.51	.39
6MM	.58	.45
8MM	.73	.55
10MM	.81	.62
12MM	.97	.73
14MM	1.08	.83
16MM	1.15	.89

Carstick

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
1/8”	.46	.38
1/4"	.75	.55
3/8”	.86	.68
1/2"	1.16	.92
4MM	.49	.41
6MM	.58	.49
8MM	.71	.60
10MM	.85	.67
12MM	1.00	.79

Composite PTC

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
1/4"	.58	.47
3/8"	.70	.53
1/2"	.80	.61
5/8"	.99	.72
3/4"	1.04	.83

PMTCE

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
1/4"	.65	.54
3/8"	.81	.72
1/2"	.94	.72
5/8"	1.00	.75
3/4"	1.00	.75

Brass PTC

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
5/32"	.64	.44
3/16"	.62	.44
1/4"	.59	.49
3/8"	.78	.56
1/2"	.85	.63
5/8"	1.02	.80
3/4"	1.03	.82

TrueSeal – Acetal & Kynar

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
1/4"	.71	.52
5/16"	.80	.55
3/8"	.80	.55
1/2"	.90	.63

TrueSeal - PolyPropylene

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
1/4"	.74	.55
3/8"	.83	.59
1/2"	.93	.66

Metric Prestomatic

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
6MM	.78	
8MM	.80	
10MM	.91	
12MM	.91	
16MM	.89	

LF3800 (PLS)

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
1/4"	.69	.58
3/16"	.57	.49
3/8"	.90	.75
1/2"	.93	.78
4MM	.57	.49
6MM	.67	.56
8MM	.74	.65
10MM	.91	.76
12MM	.96	.79

Prestomatic

Tube Size	Full Insertion Depth (In.)	Minimum O-ring Depth (In.)
1/4"	.63	.54
3/8"	.81	.72
1/2"	.94	.72
5/8"	1.12	.75
3/4"	1.12	.92

ENGLISH/METRIC CONVERSIONS

Inches x 25.4 = Millimeters (mm)
Inches x 2.54 = Centimeters (cm)
Inches x .254 = Decimeters (dm)
Feet x .3048 = Meters (m)
Yards x .9144 = Meters (m)
PSI x .0689 = Bars (bar)
Bars x 100 = Kilopascals (kPa)
PSI x .0069 = Megapascals (MPa)
Pound Inches x .113 = Newton Meters (N·m)
Pound Feet x 1.356 = Newton Meters (N·m)
Millimeters x .0394 = Inches
Centimeters x .3937 = Inches
Meters x 3.281 = Feet
Meters x 1.0936 = Yards
Bars x 14.5 = PSI Megapascals x 145 = PSI
Newton Meters x 8.85 = Pound Inches
Newton Meters x .737 = Pound Feet

MILLIMETERS TO FRACTIONS TO DECIMALS

mm	inches	
	Fraction	Decimal
.3969	1/64	.0156
.7938	1/32	.0312
1.1906	3/64	.0468
1.5875	1/16	.0625
1.9844	5/64	.0781
2.3812	3/32	.0937
2.7781	7/64	.1093
3.1750	1/8	.1250
3.5719	9/64	.1406
3.9688	5/32	.1562
4.3656	11/64	.1718
4.7625	3/16	.1875
5.1594	13/64	.2031
5.5562	7/32	.2187
5.9531	15/64	.2343
6.3500	1/4	.2500

mm	inches	
	Fraction	Decimal
6.7469	17/64	.2656
7.1438	9/32	.2812
7.5406	19/64	.2968
7.9375	5/16	.3125
8.3344	21/64	.3281
8.7312	11/32	.3437
9.1281	23/64	.3593
9.5250	3/8	.3750
9.9219	25/64	.3906
10.3188	13/32	.4062
10.7156	27/64	.4218
11.1125	7/16	.4375
11.5094	29/64	.4531
11.9062	15/32	.4687
12.3031	31/64	.4843
12.7000	1/2	.5000

mm	inch	
	Fraction	Decimal
13.0969	33/64	.5156
13.4938	17/32	.5312
13.8906	35/61	.5468
14.2875	9/16	.5625
14.6844	37/64	.5781
15.0812	19/32	.5937
14.4781	39/64	.6093
15.8750	5/8	.6250
16.2719	41/64	.6406
16.6688	21/32	.6562
17.0656	43/64	.6718
17.4625	11/16	.6875
17.8594	45/64	.7031
18.2562	23/32	.7187
18.6531	47/64	.7343
19.0500	3/4	.7500

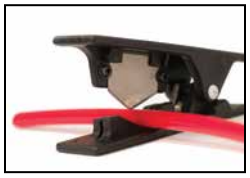
mm	inch	
	Fraction	Decimal
19.4469	49/64	.7656
19.8438	25/32	.7812
20.2406	51/64	.7968
20.2375	13/16	.8125
21.0344	53/64	.8281
21.4312	27/32	.8437
21.8281	55/64	.8593
22.2250	7/8	.8750
22.6219	57/64	.8906
23.0188	29/32	.9062
23.4156	59/64	.9218
23.8125	15/16	.9375
24.2094	61/64	.9531
24.6062	31/32	.9687
25.0031	63/64	.9843
25.4000	1	1.0000

ASSEMBLY GUIDES

Push-to-Connect Fittings

- Prestolok PLP Metal
- Prestolok PLP Composite
- Prestolok PLM
- Prestolok PLS
- Oscillating Elbows
- LIQUIFit
- TrueSeal
- Flow Controls
- Prestomatic
- PTC
- Metric Prestomatic
- PMH
- Polypropylene Ball Valves

1. Cut tubing squarely – maximum of 15˚ angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Mark tubing to appropriate tube insertion length. (see Tube Insertion Chart on page N22)
4. Insert tubing until it bottoms
5. Pull on tubing to verify it is fully inserted
6. To disassemble, simply press release button, hold against body and pull tubing out of fitting.





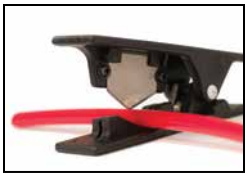




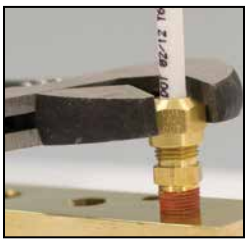
Transportation Compression Style NTA

1. Cut tubing squarely – maximum of 15˚ angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Insert tubing until it bottoms on seat.
4. Tighten nut with wrench until one thread remains visible on the fitting body; (this will allow for a number of remakes) or, the nut should be screwed down finger tight, then wrench-tightened as indicated in the following table.

Tube Size	Additional Number of Turns From Hand-Tight
3/16	2-1/2
1/4	3
3/8 &1/2	4
5/8 &3/4	3-1/2







Air Brake – AB Fittings

1. Cut tubing squarely and remove burrs
2. Slide nut and sleeve onto tubing.
3. Insert tubing into fitting until bottomed on seat. The nut should be screwed down finger tight, then wrench tightened as indicated in the chart

Tube Size	Turns Required To Seal From Hand-Tight
1/4, 3/8, 1/2	2
5/8, 3/4	3







Transmission Fittings

1. Cut tubing squarely and remove burrs
2. Insert tubing into fitting until bottomed
3. Tighten nut 1 1/2 turns from finger tight

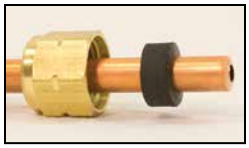






Vibra-Lok

1. Cut the tubing squarely removing burrs
2. Slip nut and sleeve over tube
3. Bottom tubing into fitting and tighten nut until stop is reached. The elastic sleeve ordinarily will extrude slightly around the tube at the end of the nut. This extrusion further aids in isolating the tube from the nut.





For Higher Pressure applications

4. Consult pressure chart to determine if tubing should be belled
5. Slip nut and sleeve over tube. The sleeve should be positioned near end of tubing just behind the surface to be belled
6. Bell tubing with standard 45˚ flaring tool or 90˚ punch. The size of bell should be approximately that shown.



Air Brake Hose Ends

1. Slide nut onto hose
2. Slide sleeve onto hose with tapered edge toward fitting body
3. Bottom hose into fitting
4. Tighten nut until it contacts body hex

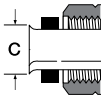
Note: When reassembling fitting, body and nut should be inspected. Only reuse if parts are in proper condition. Sleeves should never be Reused.





Recommended Size of Bell

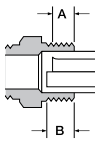
Tube O.D.	Bell Dia. C
1/8	.190-.160
3/16	.255-.225
1/4	.318-.288
5/16	.381-.351
3/8	.444-.414
1/2	.569-.539
5/8	.694-.664
3/4	.819-.789
7/8	.944-.914



Tube Length Calculator

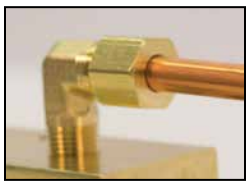
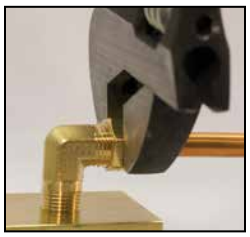
This table shows distance tube extends beyond face of Vibra-Lok fitting body on installation with bell on tubing and without bell on tubing.

O.D. of Tube	A With Bell	B Without Bell
1/8	3/16	3/16
3/16	3/16	7/32
1/4	3/16	1/4
5/16	3/16	1/4
3/8	3/16	1/4
1/2	3/16	11/32
5/8	3/16	Tubing should be belled
3/4	3/16	
7/8	1/4	



Compression

1. Slide nut then sleeve onto tubing. The thread end of the nut must face out.
2. Insert tube and bottom on the fitting shoulder
3. Assemble nut to body and tighten "hand tight". Then wrench tighten the number of turns indicated in the table.

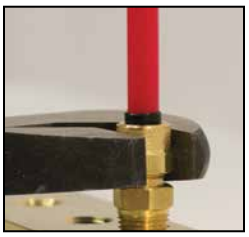




Fitting Size	Tube Size	Turns Required To Seal From Hand-Tight	
		60c With Soft Metal Tubing	60pt With Thermoplastic Tubing
2	1/8	1-1/4	--
3	3/16	1-1/4	--
4	1/4	1-1/4	2
5	5/16	1-1/4	2
6	3/8	2-1/4	2
8	1/2	2-1/4	2
10	5/8	2-1/4	2
12	3/4	2-1/4	2
14	7/8	2-1/4	--

Poly-Tite

1. Cut tubing squarely – maximum of 15° angle allowable.
2. Check that port or mating part is clean and free of debris.
3. Insert tube end until it bottoms in the Poly-Tite fitting and tighten knurl/hex nut finger-tight, plus one wrench turn.

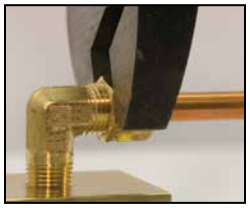




Compress-Align

With nut finger tight on fitting body, insert tubing until it bottoms in the Fitting. Complete the seal with one wrench turn for all sizes.





Hi-Duty

1. Cut tube squarely and cleanly removing all burrs.
2. Grasp fitting. Do not remove nut.
3. Insert tube in fitting through nut until tube seats firmly against tube shoulder in body.
4. Grip tube firmly to prevent turning and tighten nut to finger-tight. Continue to tighten for one and three-quarter additional turns (one and one-half turns for 1/2" size fittings) for a positive, leak proof seal. During tightening a slight "give" will be felt. This "give" indicates the sleeve has been sheared from the nut. It is not necessary to tighten the nut all the way down.




45° Flare Fittings

1. Cut tubing squarely and clean tube end thoroughly to remove burrs.
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. Flare tube end with flaring tool to provide 45° flare.
4. Clamp tube flare between nut and nose of fitting body by screwing nut on finger-tight. Tighten with a wrench an additional 1/4 to 1/2 turn past finger-tight for a metal-to-metal seal.






Dubl-Barb

Cut tube squarely and simply push tube over the two barbs




Inverted Flare

1. Cut tubing squarely and clean to remove burrs
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. Flare tube end with flaring tool to provide 45° flare
4. On thin wall copper, welded or brazed tubing, use double flare to prevent pinch-off or cracked flares
5. Clamp tube flare between nut and nose of fitting body by screwing nut on finger tight. Tighten nut with a wrench an additional 1/4 to 1/2 turn past finger tight for a metal-to-metal seal.

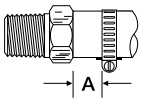



Hose Barbs

1. Cut hose cleanly and squarely to length.
2. Slide clamp on hose.
3. Lubricate hose. Push hose on fitting until bottomed against stop ring or hex.
4. Position hose clamp as shown and secure with a screwdriver or wrench. Maintain "A" dimension for proper clamp positioning.

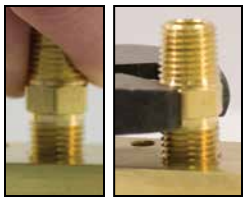
Hose Size	Hose Clamp	A
3/16	97 HC-3	1/4
1/4	97 HC-3	1/4
5/16	97 HC-6	1/4
3/8	97 HC-6	1/8
1/2	97 HC-8	1/8
5/8	97 HC-12	1/8
3/4	97 HC-12	1/8



Pipe Fittings

Straight Fittings

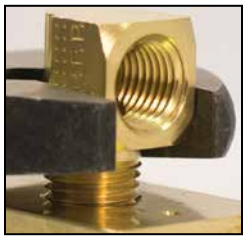


1. Hand tighten external thread into internal thread
2. Tighten an additional 2 turns with a wrench up to 1/2" male pipe thread.
3. Above 1/2" 1 1/2 to 2 1/2 turns.

Elbow or Tee Fittings







1. Hand tighten external thread into internal thread
2. Tighten an additional 1 to 1 1/2 turns with a wrench
3. Tighten fitting, clockwise to align with tubing. (Never counter clockwise)

Note: To minimize the possibility of a leaking threaded joint after assembling Male to female pipe threads, neither end should be backed out (loosened) Once the assembly has been made.

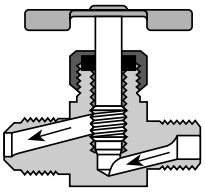
Plug Valves

To assure sealability and reliable performance, the valve must be installed So that the flow media travels in the direction of the arrow on the valve handle.



Needle Valves

Needle valves should always be installed with the pressure against the seat.



NEMA Rated Bulkhead

1. Drill panel to required diameter
2. Install sealing washer onto brass body.
3. Install fitting body through panel and secure with lock washer and jam nut.
4. Using a wrench to hold the fitting body torque the jam nut to spec per below table.

Note: For sealing bulkheads the sealing washer must be installed between the body hex and panel. To ensure a leak tight connection the panel surface must be kept flat and deburred after the drilling operation. It must be free from dirt, debris, and other contamination.

Thread Size	min. Torque Ft-Lbs	max. Torque Ft-Lbs
5/8-18	15	20
3/4-16	15	25
1-14	40	50

Bulkhead Threads:

Bulkhead fittings allow one to connect tube or hose through a panel – referred to as a bulkhead

1. Insert the bulkhead end of the fitting (without the jam nut) through the bulkhead opening.
2. If needed, install lock washer.
3. Screw jam nut onto fighting to finger tight.
4. Tighten to given torque values for appropriate thread size.

Thread Size	min. Torque Ft-Lbs	max. Torque Ft-Lbs	min. Torque N-m	max. Torque N-m
5/16-24	1.3	3.3	1.7	4.5
3/8-24	2.5	4.2	3.4	5.7
7/16-20	4.2	7.9	5.7	10.7
7/16-24	4.2	7.9	5.7	10.7
1/2-24	5	10	6.8	13.6
17/32-24	5	10	6.8	13.6
9/16-18	10	15	13.6	20.4
9/16-24	10	15	13.6	20.4
5/8-18	15	20	20.4	27.1
11/16-20	15	25	20.4	33.9
3/4-16	15	25	20.4	33.9
13/16-18	25	35	33.9	47.5
7/8-14	25	35	33.9	47.5
1-14	40	50	54.3	67.9
1-18	40	50	54.3	67.9
1 1/8-14	50	60	67.9	81.4
1 5/16-12	56	75	76.0	101.8
1 5/8-14	80	90	108.6	122.1

Straight Threads

Non-adjustable stud end: used on straight fitting, meaning no orientation before final tightening of the connection.

1. Inspect components to ensure that male and female port threads and sealing surfaces are free of burrs, nicks, scratches, or any foreign material.
2. Screw fitting into port.
3. Tighten to given torque values for appropriate thread size

Adjustable stud end: used on shaped fittings; external nut and seal used to orient fitting before final tightening of connection.

1. Inspect components to ensure that male and female port threads and sealing surfaces are free of burrs, nicks, scratches, or any foreign material.
2. Back off nut as far as possible.
3. Screw fitting into port until the back-up washer or o-ring contacts face of port.
4. To align the tube end of fitting, unscrew fitting by the required amount, but not more than one full turn.
5. Holding fitting in desired position, tighten nut to given torque values for appropriate thread size.

Thread Size	min. Torque Ft-Lbs	max. Torque Ft-Lbs	min. Torque N-m	max. Torque N-m
7/16-20 (-4)	6	10	8.1	13.6
9/16-18 (-6)	12	16	16.3	21.7
3/4-16 (-8)	18	22	24.4	29.9
7/8-14 (-10)	28	32	38.0	43.4
1 1/16-12 (-12)	38	42	51.6	57.0
1 5/16-12 (-16)	58	62	78.7	84.1
M10 X 1.0	5.9	8.8	8	12
M12 X 1.5	7.4	11.1	10	15
M14 X 1.5	11.1	14.7	15	20
M16 X 1.5	11.1	14.7	15	20
M18 X 1.5	14.7	18.4	20	25
M22 X 1.5	14.7	22.1	20	30
M26 X 1.5	25.8	33.2	35	45
M27 X 2.0	29.5	36.9	40	50
M33 X 2.0	44.2	51.6	60	70

FLUID COMPATIBILITY GUIDE

The following pages list general recommendations for the selection of valve materials. For specific cases, and for those not included in the Fluid Compatibility Chart, it is advisable to check with your Parker representative.

There are many specific environmental factors which might affect corrosion rate such as temperature, solution, concentration and presence of impurities. Therefore, we suggest that the information be used as a rough guide to material selection. If any questions exist regarding the expected performance of a material in a given application, actual tests should be performed to determine the suitability of the materials in question.

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Acetaldehyde	P	G	E	P	G	G	P	E	U	
Acetamine	G	G	G	E	G			E		
Acetate Solvents	E	E	E	P			U	E	U	
Acetic Acid Vapors	U		U	U				E		
Acetic Acid (10%)	P	P	E	U	P	G	U	E	U	U
Acetic Acid (80%)	P	P	E	U	U	P	U	E	U	U
Acetic Acid (Aerated)	P	P	E	G	G		P	E	U	
Acetic Acid (Air Free)	P	P	E	G	G		U	E	U	
Acetic Acid (Crude)	P	P	E	U	U		U	E	U	
Acetic Acid (Glacial)			U	U	P	G	P	E		U
Acetic Acid (Pure)	P	U	E	U	U		U	E	U	
Acetic Anhydride	U	U	G	U	P	P	U	E	U	U
Acetone	E	E	E	U	U	E	U	E	E	E
Acetophenone	G	G	G	U	U	E	U			
Acetyl Chloride	E	G	P	U	U	U	U	E		
Acetylene	G	E	E	G	P	E	E	E	E	
Acid Fumes	U	U	G	P	G			E		
Acrylonite	E	E	E	U	U	U	P	E		
Air	E	E	E	E	E	E	E	E	E	
Alcohol, Amyl	G	G	E	P	P	E	G	E	E	
Alcohol, Butyl	G	G	E	G	G	P	E	E	E	
Alcohol, Diacetone	E	E	E	U	P	G	U	E		
Alcohol, Ethyl	G	G	G	E	G	E	E	E	E	
Alcohol, Isopropyl	G	G	G	P	G	E	E	E	E	
Alcohol, Methyl	E	G	E	G	E	E	P	E	E	
Alcohol, Propyl	E	G	E	G	G	E	E	E		
Alcohols, Fatty	G	G	E	G	G			E		
Alum	U		G	G	G		G	E		
Alumina	U		E	E	E	E		E		
Aluminum Acetate	G		E	U	U	E	U	E		
Aluminum Bromide				E	E	E	E			
Aluminum Chloride Dry	U	P	P	G	G	E	E	E	E	
Aluminum Chloride Solution			U	G	G		E	E		U
Aluminum Fluoride	U	U	P	E	E	E	E	E		U
Aluminum Hydroxide	E	U	E	E	E	E	E	E		
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Aluminum Nitrate	U	U	P	G	G	G	U	E		
Aluminum Oxalate			U					E		
Aluminum Salts				E	E	E	E			
Aluminum Sulfate	P	U	G	E	E	E	E	E	E	P
Amines	G	G	E	U	U	P	U	E	E	
Amly Chloride	G		E	U	P	U	U	E		
Ammomium Bicarbonate	G	P	G	G	E	E	E	E	E	
Ammonia, Alum			E	G	G			E		
Ammonia, Anhydrous Liquid	U	E	E	G	P	G	U	E		
Ammonia, Aqueous	U	E	E	G	G		E	E		
Ammonia, Gas, Hot	U	G	E	P	E	E	U	E		
Ammonia Liquor			E					E		
Ammonia Solutions	U	G	E	G	G	G	U	E		
Ammonium Acetate	U		G	G	G	E	U	E		
Ammonium Bromide 5%			G					E		
Ammonium Carbonate	G	G	G	P	E	E	G	E	E	
Ammonium Chloride	U	U	P	G	E	E	E	E	E	U
Ammonium Hydroxide 28%	U	P	G	G	E	G	E	E		
Ammonium Hydroxide Conc.	U	P	G	P	E	E	E	E	E	
Ammonium Monosulfate			E					E		
Ammonium Nitrate	U	U	E	E	E	E	E	E	E	U
Ammonium Oxalate 5%			E					E		
Ammonium Persulfate	P	U	E	U	P	G	G	E		U
Ammonium Phosphate	U	U	G	E	E	E	E	E	G	P
Ammonium Phosphate Di-Basic	P	U	G	E	E		E	E	E	
Ammonium Phosphate Tri-Basic	P	U	G	E	E		E	E	E	
Ammonium Sulfate	P	P	G	E	E	E	G	E	E	U
Ammonium Sulfide	U	U	G	E	G	E	U	E		
Ammonium Sulfite	P	P	E	G	E	G	E	E	E	
Amyl Acetate	G	P	G	U	U	G	U	E	G	P
Amyl Borate				E	E	U	E			
Amyl Chloronaphthalene				U	U	U	E			
Amyl Napthhalene				U	U	U	E			
Aniline	U	P	G	U	U	P	P	E	E	P
Aniline Dyes	P	P	E	P	P	P	G	E	E	
Animal Oil	G	G	G	E	G	G	E			
Antimony Trichloride	U	U	U	P			G	E		
Apple Juice	P	U	G	E	E	G	E	E		
Aqua Regia (Strong Acid)	U	U	G	U	U	U	U	E		U
Aroclor 1248	G	U	U	U	U	G	E			
Aroclor 1254	G	U	U	U	U	G	E			
Aroclor 1260	G	U	U	E	E		E			
Aromatic Solvents	E	P	E	U	U	U		E		
Arsenic Acid	U	U	G	E	E	G	E	E	E	U
Asphalt Emulsion	E	G	E	U	P	U	E	E	E	
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Asphalt Liquid	E	G	E	P	P	U	E	E	E	
Astm Oil, No. 1	E	E	E	E	E	U	E			
Astm Oil, No. 2	E	E	E	E	G	U	E			
Astm Oil, No. 3	E	E	E	E	U	U	E			
Astm Oil, No. 4	E	E	E	G	U	U	E			
Astm Reference Fuel A	U	G	E	E	G	U	E			
Astm Reference Fuel B	U	G	E	E	U	U	E			
Astm Reference Fuel C	U	G	E	G	U	U	E			
Barium Carbonate	G	G	G	G	E	E	E	E	E	
Barium Chloride	G	P	G	E	E	E	E	E	E	E
Barium Cyanide	P		G	G	G	G	G	E		
Barium Hydrate	U		E					E		
Barium Hydroxide	P	P	G	E	E	G	E	E	E	
Barium Nitrare			E		G			E		
Barium Salts				E	E	E	E			
Barium Sulfate	P	P	E	E	E	G	E	E	E	E
Barium Sulfide	U	P	G	E	G	E	E	E	E	
Beer	G	U	E	G	G	G	E	E	E	U
Beet Sugar Liquors	E	G	E	E	E	G	E	E	E	
Benzaldehyde	E	E	E	U	U	E	U	E	E	E
Benzene	G	G	G	U	U	U	G	E		E
Benzenesulfonic Acid, 10%	U	U	U	U	G	U	E			
Benzly Chloride	U	U	G	U	U	U	E			
Benzoic Acid	G	U	G	P	P	U	G	E		P
Benzyl Alcohol		U	E	U	G	G	E			
Berryllium	G		G	G	G	G	G	E		
Bleach Liquor				U	G	E	E			
Bleaching Powder Wet	G		P	U	E	G	G	E		
Blood	G		E	G	G	G	G	E		
Borax	U	P	E	G	U	E	E	E	E	E
Borax Liquors	E	P	G		P	E	E	E	E	
Bordeaux Mixture			E					E		
Boric Acid	P	U	G	G	G	G	E	E	E	G
Brake Fluid	G		G	U	P	G	U	E		
Brines, Saturated	G	U	G	E	G	E	E	E	E	
Bromine, Dry	G	U	U	U	U	U	G	E		
Bromine, Wet	U	U	U	U	U		G	E		
Bunker Oils (Fuel)	G	G	E	G	G		E	E	E	
Butadiene	P	G	E	P	P	P	G	U		
Butane	E	G	E	G	G	U	E	E	E	
Butter	G	U	E	G	G			E		
Buttermilk	U	U	E	E	E	G	E	E	E	
Butyl Acetate	G		G	U	U	U	U	E		E
Butyl Alcohol	E	P	E	G	G		G	E		
Butyl Amine	G	G	E	U	U		U	E		
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Butyl Butyrate				U	U	E	E			
Butyl Carbitol	E	P	E	U	U		U	E		
Butyl Cellosolve	E	P	E	U	U		G	E		
Butyl Stearate				G	U	U	E			
Butylene	E	E	E	U	U	U	U	E		
Butyric Acid	P	U	G	P	P	P	P	E	E	U
Calcine Liquors				E		E	E			
Calcium Acetate				G	G	E	U			
Calcium Bisulfite	P	U	G	E	E	U	E	E	E	
Calcium Carbonate	P	U	G	E	E	G	E	E	E	
Calcium Chlorate	U		G	G	G	G	G	E		
Calcium Chloride	G	P	G	E	E	G	E	E	E	U
Calcium Hydroxide	P	P	G	E	G	E	E	E	E	
Calcium Hypochlorite	U	U	P	P	P		E	E		U
Calcium Nitrate			G	G	G	G		E		
Calcium Phosphate	P		G	G	G	G	G	E		
Calcium Salts				E	E	E	E			
Calcium Silicate	P		G	G	G	G	G	E		
Calcium Sulfate	P	P	G	E	E	G	E	E	E	U
Calcium Sulfide	U	U	G	E	E	E	E			
Caliche Liquor		G	E	G	G			E		
Camphor	P		G	G	G	G	G	E		
Cane Sugar Liquors	G	G	E	G	G	G	G	E		
Carbolic Acid	U	U	G	G	G	G	E	E	U	
Carbon Bisulfide	P	G	G	U	U	U	E	E	E	
Carbon Dioxide, Dry	E	E	E	P	G	G	G	E		
Carbon Disulfide	U	P	E	U	U		E	E		
Carbon Monoxide	E	E	E	G	U	G	G	E		
Carbon Tetrachloride, Dry	P	G	E	U	U	U	G	E	E	
Carbon Tetrachloride, Wet	U	U	G	U	U	U	G	E	E	
Carbonated Beverage	G	U	G	G	G	G	G	G	E	
Carbonated Water	G	G	E	E	E	E	E	E	E	
Casein	P			G	G	G	G	G	E	
Caster Oil	E	G	E	E	G	G	E	E	E	
Caustic Potash			E	G	G			E		
Caustic Soda		G	E	P		G	G	E		
Cellulose Acetate	G		G	U	U	G	U	E		
Cellulube	E	P	E	U	U		U	E		
China Wood Oil	P	P	E	E	G	U	E	E	E	
Chloracetic Acid	P	U	U	U	P		P	E		U
Chlorinated Solvents	P	P	E	U	U	U	P	E	E	
Chlorinated Water	U	P	G	E		E	E	E	U	U
Chlorine, Wet	U	U	U	U	U			E		
Chlorine Gas	P	G	G	P	U	U	G	E	E	
Chloro Bromo Methane	G	U	G	U	U		G	E		
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Chlorobenzene, Dry	G	G	E	U	U	U	E	E	E	E
Chlorobutadiene				U	U	U	E			
Chloroform, Dry	G	G	E	U	U	U	G	E	E	U
Chlorophyll, Dry	G		G	G	G	G	G	E		
Chlorosulfonic Acid, Dry	P	G	G	U	U	U	U	E		U
Chlorosulfonic Acid, Wet	U	U	U	U	U		P	E		
Chlorphenol				U	U	U	E			
Chrome Alum	P	G	E	G	G	G	G	E		
Chromic Acid <50%	U	U	P	U	U	P	P	E	U	U
Chromic Acid >50%	U	U	P	U	U	P	P	E	U	
Chromium Sulfate	P		G	G	G	G	G	E		
Cider			E					E		
Citric Acid	P	U	G	G	E	G	E	E		P
Citrus Juices	G	U	G	E	E		E	E	E	
Coca-Cola Syrup			E	G	G		G	E		
Coconut Oil	G	P	G	E	P	E	E	E	E	
Coffee	E		E	E	E	E	E	G		
Coffee Extracts, Hot	G	P	E					E		
Coke Oven Gas	P	G	E	P	U	U	G	E		
Cooking Oil	G	G	E	E	G	U	E	E	E	
Copper Acetate	U	U	E	P	P	G	U	E		
Copper Carbonate			E					E		
Copper Chloride	U	U	P	G	G		E	E		U
Copper Cyanide	U		E	E	E	G	G	E		E
Copper Nitrate	U	U	G	E	E	G	E	E	E	U
Copper Salts					E	E	E	E		
Copper Sulfate	U	U	G	E	E	E	E	E	E	P
Corn Oil	G	P	G	E	P	P	E	E	E	
Cottonseed Oil	G	P	G	E	G	P	G	E	E	
Creosote Oil	G	G	G	P	U	U	E	E	U	
Creosols	U	G	G	U	U	U	U	E		
Cresylic Acid	P	P	G	U	U	U	G	E	U	U
Crude Oil, Sour	P	G	E	E	G	U	E	E		
Crude Oil, Sweet	G	G	E	E	G		E	E		
Cupric Nitrate			E					E		
Cutting Oils,	E	G	E	E	G		E	E	E	
Water Emulsions										
Cyanide Plating Solution	U		G	G	G	G	G	E		
Cyclohexane	E	E	E	P	U	U	E	E	E	
Cyclohexanone	G		E	U	U			E		
Decane				E	U	U	E			
Denatured Alcohol				E	E	E	E			
Detergents, Synthetic	G	U	G	G	G	G	E	E		
Dextrin	G		G	G	G	G	G	E		
Diacetone Alcohol	E	E	E	U	P			E		
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Dichloroethane			P	U	U	U		E		
Dichloroethyl Ether	G		G	U	U	U	U	E		
Diesel Oil Fuels	E	E	E	E	P	U	E	E		
Diethyl Benzene			G	U	U	U		E		
Diethyl Sulfate	G		G	P	P	P	G	E		
Diethylamine	G	E	E	G	P	P	U	E		
Diethylene Glycol	G	E	E	E	E	E	G	E		
Dimethly Formamide	G		E	G	U	U	U	E		
Dimethyl Phthalate			U	G	G		U	E		
Dioctyl Phthalate	E		E	P	U		P	E		
Dioxane	G		G	U	U	P	U	E		
Dipentane	E		E	G	U	U	G	E		
Disodium Phosphate			G	G	G		G	E		
Dow Chemical Hd50-4					G	E	U			
Dow Corning 200, 510, 550				G	E	E	E			
Dowtherm	E	G	E	U	U	U	E	E	E	
Drilling Mud	G	G	E	E	P	E	E	E	E	
Dry Cleaning Fluids	P	G	E	U	U		G	E	E	
Drying Oil	P	P	G	E	G			E	E	
Enamel	E		E	G	G	U		E		
Epsom Salts	G	P	G	E	E		E	E	E	
Ethane	G	P	G	E	G	U	E	E	E	
Ethanol	E	U	U	U	E	E	U			
Ethanolamine	U	G	E	G	P		U	E		
Ethers	G	E	E	U	U	P	P	E	P	
Ethyl Acetate	P	G	G	U	U	P	U	E	E	E
Ethyl Acrylate	G	P	E	U	U	P	U	E		
Ethyl Alcohol	G	G	G	E	E		E	E		
Ethyl Benzene			G	P	U	U		E	E	
Ethyl Bromide	E		G	G	G	G	G	E		
Ethyl Chloride, Dry	G	G	E	P	P	P	G	G	E	E
Ethyl Chloride, Wet	P	U	G	P	P	G	G	E		
Ethyl Ether	G		E	U	U	U	U	E		
Ethyl Hexanol				E	E	E	E			
Ethyl Silicate	G		G	G	P	G	G	E		
Ethyl Sulfate			G	G	G	P	E	E	E	
Ethylene Chloride			E	U	E		U	E		
Ethylene Dichloride	U	U	G	U	U	U	U	E		
Ethylene Glycol	G	G	G	E	G	E	E	E		
Ethylene Oxide	P	G	G	U	U	U	U	E		
Fatty Acids	P	U	E	G	G	U	E	E	E	U
Ferric Chloride	U	U	U	E	U		E	E		U
Ferric Hydroxide			E	G				E		
Ferric Nitrate	U	U	P	E	E	E	E	E	E	U
Ferric Sulfate	U	U	G	E	E	E	E	E	E	U
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Ferrous Ammonium Citrate			G					E		
Ferrous Chloride	G	U	U	E	E	E	E	E	E	U
Ferrous Sulfate	G	U	G	E	E	E	E	E	E	U
Ferrous Sulfate, Saturated	P	P	E	P	P	G	G	E		
Fertilizer Solutions	P	G	G	G	G			E	G	
Fish Oils	G	G	E	E	G	U	E	E	G	
Flue Gases	G		E	P	P	U	P	E	P	
Fluoboric Acid			G	E	G			E		U
Fluorosilicic Acid	G	U	G	P	P	P	P	E		U
Fluorine, Dry	U		U	U					E	
Food Fluids & Pastes	G	P	E	G	E			E		
Formaldehyde, Cold	E	E	E	G	P	G	U	E	E	U
Formaldehyde, Hot	G	U	P	G	G			E	E	U
Formic Acid, Cold	G	U	G	U	G		G	E	U	E
Formic Acid, Hot	G	U	G	U	E		E	E	U	
Fruit Juices	G	U	E	E	E	E	E	E	E	
Fuel Oil	G	G	E	E	P	U	E	E	E	
Fumaric Acid				G	G			E		
Furfural	E	E	E	U	P	P	U	E	E	E
Galic Acid 5%	P	U	G	G	G	P	E	E	E	
Gas, Natural	G	G	E	E	E	U	E	E	E	
Gas, Odorizers	E	G	G	G	G		E	E	E	
Gas Mfg.	G	G	G	E			E	E	E	
Gasoline, Aviation	E	E	E	P	U		E	E	E	
Gasoline, Leaded	E	E	E	P	U		E	E	E	
Gasoline, Motor	E	E	E	P	U	U	E	E	E	
Gasoline, Refined	G	G	E	P	P	U	E	E		
Gasoline, Sour	G	G	E	P	U	U	E	E	E	
Gasoline, Unleaded	E	E	E	P	U		E	E	E	E
Gelatin	E	U	E	E	E	E	E	E	E	
Glucose	E	G	E	E	E	E	E	E	E	
Glug	E	G	E	E	G	E	E			
Glycerine	G	P	E	P	U	E	G	E	P	E
Glycol	G	P	G	G	E	E	E	E	P	
Glycol Amine	U		G	E		U	U			
Graphite	G		G	G	G	G	G	E		
Grease	P	E	E	E	G	U	E	E		
Gulf-Fr Fluid, Emulsion				E	G	U	E			
Gulf-Fr Fluid G				E	E	E	E			
Gulf-Fr Fluid P				U	U	G	G			
Helium Gas	G	E	E	G	G	G	G	E		
Heptane	E	G	E	E	G	U	E	E	E	
Hexane	G	G	E	E	P	U	E	E	E	E
Hexanol, Tertiary	E	E	E	E	P	U	G	E		
Hexyl Alcohol	E	P	E	U	P		E	E		
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Hydraulic Oil, Petroleum Base	G	E	E	E	G	U	E	E	E	
Hydrazine	U	U	G	P	P	G	U	E		
Hydrigen Sulfide, Dry	P	G	E	P	E	E	E	E		
Hydrochloric Acid, Air Free	U	U	U	G	P		E	E		U
Hydrocyanic Acid	U	U	E	G	G	G	E	E	U	
Hydrofluoric Acid	U	U	U		G					U
Hydrofluosilicic Acid	E	U	P	G	G	G	E	E		U
Hydrogen Gas, Cold	G	G	E	G	G	G	E	E		
Hydrogen Gas, Hot	G	G	G	G	G		E			
Hydrogen Peroxide,	U	U	G	U	U	G	G	E		U
Concentrated										
Hydrogen Peroxide, Dilute	P	U	G	E	G	G	E	E	G	U
Hydrogen Sulfide, Wet	U	P	G	P	G	G	E	E	E	
Hydrolube				E	G	E	E			
Hypo (Sodium Thiosulfate)	P	U	G	E	E	E	E	E	E	
Hypochlorites, Sodium	U	U	P	P			E	E		
Illuminating Gas	E	E	E	P	P	U	E	E		
Ink, Newsprint	P	U	E	E	G	G	E	E	E	
Iodine, Wet	U	U	U	G			E	E		
Iodoform	P	G	E				E	E	E	
Isopropyl Acetate			G	U	U	U		E		
Isopropyl Alcohol	G	G	G	P	G		E	E		
Isopropyl Ether	E	E	E	P	P	U	U	E		
Iso-Butane			G	G	U	U		E		
Iso-Octane	E	E	E	E	P	U	E	E	E	
J P-4 Fuel	E	E	E	E	P		E	E	E	
J P-5 Fuel	E	E	E	G	P		E	E	E	
J P-6 Fuel	E	E	E	E	P		E	E	E	
Kerosene	E	G	E	E	P	U	E	E	E	
Ketchup	U	U	E	E	E		E	E	E	
Ketones	E	E	E	U	U	U	U	E	E	
Lactic Acid, Conc. Cold	U	U	E	G	E	G	E	E	U	U
Lactic Acid, Conc. Hot	U	U	G	P	P	G	G	E	U	U
Lactic Acid, Dilute Cold	U	U	E	G	E	G	E	E	U	U
Lactic Acid, Dilute Hot	U	U	E	P	U		U	E	U	U
Lactose	G		G	G	P	G	G	E		
Laquer	E	P	E	U	U	U	U	E	E	E
Lard	G	E	E	G	P	P		E		
Lard Oil	G	P	G	E	G	G	E	E	E	
Lead Acetate	P	U	G	E	G	G	G	E	E	E
Lead Sulfate	P		G	G	G	G	G	E		
Lecithin	P		G	U	U	U	G	E		
Linoleic Acid	G	G	E	G	G	U	G	E	E	
Linseed Oil	G	E	E	E	P	U	E	E	E	
Lithium Chloride	G		G	G	G	G	G	E		
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Lpg	E	G	G	E	G	U	E	E	E	
Lubricating Oil	G	E	E	E	G	U	E	E	E	
Ludox	U		G	G	G	G	G	E		
Magnesium Bisulfate	G	G	E	G	G	G	G	E		
Magnesium Bisulfide	U		G	G	G	G	G	E		
Magnesium Carbonate	G		E	G	G	G	G	E		
Magnesium Chloride	G	P	G	E	E	E	E	E	E	E
Magnesium Hydroxide	G	G	E	E	E	E	E	E	E	
Magnesium Hydroxide Hot	U	G	E	G	G		E	E	E	
Magnesium Nitrate			E	G	E		G	E		E
Magnesium Salts				E	E	E	E			
Magnesium Sulfate	G	G	E	E	E	E	E	E	E	E
Maleic Acid	G	G	G	G	G	U	E	E	E	
Maleic Anhydride	G		G	U	U	U	G	E		
Malic Acid	G	U	G	E	G		E	E	E	
Malt Beverages			E	E	E	G	E	E		
Manganese Carbonate			G	G				E		
Manganese Sulfate	G		E	G	G	G	G	E		
Mayonnaise	U	U	E	E	E		E	E	E	
Meat Juices	U		E	G	G			E		
Melamine Resins			P	G	G			E		
Mercuric Chloride	U	U	G	E	G	E	E	E		
Mercuric Cyanide	U	U	E	E	G	E	E	E		
Mercurous Nitrate	U		E				G	E		
Mercury	U	E	E	E	E	E	E	E	E	
Methane	E	G	E	E	G		E	E	E	
Methanol	E	E		E	E	E	U			
Methanol	G		E	G	G	U	G	E		
Methyl Acetate	E	G	E	U	U	G	U	E		
Methyl Acetone	E	E	E	U	U	E	U	E		
Methyl Alcohol	G	G	G	E	G		P	E		E
Methyl Bromide 100%	P	G	G	G	U	U	G	E		
Methyl Cellosolve	E	G	E	P	U	G	U	E		
Methyl Cellulose			E	U	U			E		
Methyl Chloride	G	G	E	U	U	U	G	E	E	
Methyl Ether				E	U	U	E			
Methyl Ethyl Ketone	E	E	E	U	U	G	U	E	E	E
Methyl Formate	E	P	G	U	G	G	U	E		
Methyl Isobutyle Ketone			E	U	U			E		
Methylamine	U	G	E	U	U	G	U	E		
Methylene Chloride	E	G	E	U	U	U	P	E		U
Milk & Milk Products	G	U	E	E	E	E	E	E	E	
Mil-F-81912, Jp-9	E	E	E	U	U	U	E			
Mil-H-5606	E	E	E	E	G	U	E			
Mil-H-6083	E	E	E	E	E	U	E			
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Mil-H-7083	E	E	E	E	G	E	G			
Mil-H-8446	G	E	E	G	E	U	E			
Mil-L-2104 &2104b	E	E	E	E	G	U	E			
Mil-L-7808	U	G	E	G	U	U	E			
Mine Waters, Acid	P	U	P	E			E	E		
Mineral Oils	G	G	E	E	G	U	E	E	E	
Mineral Spirits	G	G	G	E	P		E	E	E	
Mixed Acids, Cold	U	P	G	U	U	U	G	E	U	
Mlo-7277 & Mlo-7557	G	E	E	U	U	U	E			
Mobile Hf	E	E	E	E	G	U	E			
Molasses, Crude	E	E	E	E	E		E	E	E	
Molasses, Edible	E	P	E	E	E		E	E	E	
Molybdic Acid			E					E		
Monochloro Benzene Dry			G	U	U			E		
Monomethyl Hydrazine				G	G	E				
Morpholine	G		E	U	U	G	U	E		
Muriatic Acid	U	U	U	G			E	E		
Mustard	E	G	E	E	E		E	E	E	
Naphthenic Acid	G	E	G	G	U	U	E			
Naptha	G	G	G	G	P	U	E	E	E	
Napthalene	G	G	G	U	U	U	E	E	E	
Natural Gas, Sour	G	G	E	E	E	U	E	E		
Neatsfoot Oil				E	U	G	E			
Nickel Acetate	U	G	E	G	G	E	U			
Nickel Ammonium Sulfate	U	U	E	E	G	G	U	E		
Nickel Chloride	U	U	G	E	E	G	E	E	E	E
Nickel Nitrate	U	U	G	E	E	E	E	E	E	
Nickel Salts				E	G	E	E			
Nickel Sulfate	U	U	G	E	E	G	E	E	E	E
Nitric Acid 100%	U	U	E	U	U	U	G	E	U	U
Nitric Acid 10%	U	U	E	P	G		E	E	U	U
Nitric Acid 30%	U	U	E	P	P	G	E	E	U	U
Nitric Acid 80%	U	U	P	U	U	U	G	E	U	U
Nitric Acid Anhydrous	U	U	E	U	U	U	E	E		
Nitrobenzene	U	G	E	U	U	P	P	E		E
Nitrogen	E	E	E	E	E	G	E	E	E	
Nitrous Acid 10%	U	U	G	P	E		E	E		
Nitrous Gases	U	G	E					E		
Nitrous Oxide	G	G	G	G	G		E	E		
Nocotinic Acid	E	G	E	U	U	U	G	E		
Octyl Alcohol	E	E	E	G	G	U	E			
Oils, Animal	E	E	E	E	G	G	G	E		
Oils, Petroleum Refined	G	E	E	E	G	U	E	E	E	
Oils, Petroleum Sour	P	G	E	G	G	U	E	E		
Oils, Water Mixture	E	G	E	E	G		E	E	E	
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Oils & Fats			E	G		U		E		
Olaic Acid			G	U	U		P	E		
Oleic Acid	G	P	G	G	P	U	E	E	E	
Oleum	P	G	G	U	U	U	P	E	U	
Oleum Spirits	U		G	P	U	U	E	E		
Olive Oil	P	G	E	E	G	G	E	E	E	
Ortho-Dichlorobenzene	G	G	G	U	U	U	E			
Other Ketones	E	E	E	U	U	U	U	E		
Oxalic Acid	G	U	G	P	G	G	E	E	P	U
Oxygen	E	G	E	G	G	E	E	E	U	
Ozone, Dry	E	E	E	U	U	E	G	E		
Ozone, Wet	G	P	E	U	U	G	G	E		
Paints & Solvents	E	E	E	U	U	U	G	E		
Palm Oil	G	P	G	G	G	U	E	E	E	
Palmitic Acid	G	P	G	G	G	G	E	E	E	
Paper Pulp	G		E	G	G	G	G	E		
Paraffin	E	G	E	E	P	U	E	E	E	
Paraformaldehyde	G	G	G	G	G	U		E	E	
Paraldehyde			G	G	G	U		E		
Para-Dichlorobenzene	G	E	E	U	U	U	E			
Parker O Lube	E	E	E	E	E	U	E			
Peanut Oil	G	E	E	E	U	U	E			
Pentane	E	G	E	E	G	U	E	E	E	
Perchlorethylene, Dry	P	G	E	U	U	U	E	E		
Perchloric Acid-2n	U	U	G	U	G	G	E			
Petrolatum (Petroleum Jelly)	G	P	G	E	G		E	E	E	
Phenol	G	U	E	U	U	U	G	E	U	E
Phosphate Ester	U	E	E	U		E		E		
Phosphoric Acid 10%	U	U	U	G	E	G	E	E	U	U
Phosphoric Acid 50% Cold	U	U	G	G	G	G	E	E	U	U
Phosphoric Acid 50% Hot	U	U	U	G	G	G	E	E	U	U
Phosphoric Acid 85% Cold	G	G	E	P	P		G	E	U	U
Phosphoric Acid 85% Hot	P	P	G	P	P			E	U	U
Phosphoric Anhydride			E	U	U		G	E	G	
Phosphorous Trichloride	U	G	E	U	U	G	G	E		
Phthalic Acid	G	P	G	P	P		E	E	E	
Phthalic Anhydride	G	P	G	P	P		E	E	E	
Picric Acid	P	U	G	P	E	G	G	E		
Pine Oil	G	G	E	E	U	U	E	E	E	
Pineapple Juice	P	P	E	E	E		E	E	E	
Pitch			E	P	P	U		E		
Plating Solutions, Chrome	E	U	E		U	E	E			
Plating Solutions, Other		E	E	E	U	E	E			
Pneumatic Service	E	E	E	E	E	E	E	E		
Polysulfide Liquor	U		G	G	G	G	G	E		
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Polyvinyl Acetate	G		G		P	G		E		
Polyvinyl Chloride	G		G		P	G		E		
Potassium Acetate	G	E	G	G	G	E	U			
Potassium Bicarbonate			E	G				E		E
Potassium Bichromate			E	G	G		G	E	G	
Potassium Bisulfate			E	G	G		E	E		
Potassium Bisulfite	P	U	G	E	E	G	E	E	E	
Potassium Bromide	P	U	E	E	E	G	E	E	E	P
Potassium Carbonate	G	G	G	E	E	G	E	E	E	E
Potassium Chlorate	G	G	G	E	E	G	E	E	E	P
Potassium Chloride	P	P	G	E	E	E	E	E	E	P
Potassium Chromate	G		G	G	E	G	G	E		
Potassium Cyanide	U	G	G	E	E	E	E	E	E	E
Potassium Dichromate	U	P	G	E	E	G	E	E	E	U
Potassium Diphosphate	G	E	E	E			E	E		
Potassium Ferricyanide	U	P	E	E	E	G	E	E	E	
Potassium Ferrocyanide	G	P	G	E	E		E	E	E	
Potassium Hydroxidedilute Cold	U	E	G	E	G		U	E		E
Potassium Hydroxide Dilute Hot	U	G	G	G	G			E		
Potassium Hydroxide To 70% Cold										
Potassium Hydroxide To 70% Hot	U	E	G	P	G	E		E		
Potassium Hydroxide To 70% Hot	U	E	G	P	G	E		E		
Potassium Iodide	U	P	G	E	E	G	E	E	E	
Potassium Nitrate	G	G	G	E	E	G	E	E	E	P
Potassium Oxalate			E					E		
Potassium Permanganate	G	G	G	E	E	G	E	E	E	U
Potassium Phosohate	P		G	E	E	E	E	E		
Potassium Phosphate Di-Basic	G	E	E	E	E	G	E	E	E	
Potassium Phosphate Tri-Basic		E	G	G	G	G		E		
Potassium Salts				E	E	E	E			
Potassium Sulfate	G	G	E	E	E	E	E	E	E	P
Potassium Sulfide	G	G	E	E	G	G	G	E		
Potassium Sulfite	G	G	E	G	G	E	G	E		
Producer Gas	G	G	G	E	G	U	E	E	E	
Propane Gas	E	G	G	E	G	U	E	E	E	
Propyl Acetate	U	E	E	U	U	G	U			
Propyl Alcohol	E	G	G	E	E		E	E		
Propyl Bromide	G		G	G	G	G	G	E		
Propylene	E	E	E	U	U	U	E			
Propylene Glycol	G	G	G	E	E	G	E	E	P	
Pydraul	E	P	E	U	U		G	E		
Pyridine			G	U	U		U	E		
Pyrogard 42, 43, 53, 55				U	U	E	E			
Pyrogard D				E	G	E	E			
Pyrolgalic Acid	G	G	G	E	E		E	E	E	
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Quench Oil	G	G	E	E	G		E	E	E	
Quinine, Sulfate, Dry			E					E		
R P-1 Fuel	E	E	E	G	P		E	E	E	
Resins & Rosins	E	P	E	P	P		E	E		
Resorcinol			G					E		
Road Tar	E	E	E	G	P	U	E	E	E	
Roof Pitch	E	E	E	G	P		E	E	E	
Rosin Emulsion	G	P	E	U	P		G	E		
Rubber Latex Emulsions	E	G	E				E	E	E	
Rubber Solvents	E	E	E	U	P		U	E	P	
Salad Oil	G	P	G	E	E	G	E	E	E	
Salicylic Acid	P	U	E	E	E	G	E	E	E	
Salt	G	P	G	E	E		E	E	E	
Salt Brine	G		G	E	U	G	G	E		
Sauerkraut Arine			G					E		
Sea Water	P	U	G	E	E	E	E	E	E	
Sewage	P	P	G	E	P	G	G	E		
Shell Irus 905				E	G	U	E			
Shellac	E	E	E	E	E			E		
Silicone Fluids	G		G	G	G		G	E		
Silver Bromide										
Silver Cyanide	U		E	G	G		G	E		
Silver Nitrate	U	U	E	P	P	E	E	E	E	
Silver Plating Sol.			E		G			E		
Skydrol 500	E	G	E	U	U		U	E		
Skydrol 7000, Type 2	U	E	E	U	U	E	G			
Soap Solutions	E	E	E	E	G	E	E	E		
Sodium Acetate	G	P	G	G	G	G	E	E	E	E
Sodium Aluminate	G	P	E	E	E	G	E	E	E	
Sodium Benzoate			G					E		
Sodium Bicarbonate	G	P	G	E	E	E	E	E	E	E
Sodium Bichromate			G	U				E		
Sodium Bisulfate 10%	G	U	E	E	E	G	E	E	E	P
Sodium Bisulfite 10%	G	U	E	E	E	G	E	E	E	P
Sodium Borate	G	P	G	E	E	G	E	E	E	
Sodium Bromide 10%	G	P	G	E	E	G	E	E	E	
Sodium Carbonate	G	G	E	E	E	G	E	E	E	E
Sodium Chlorate	G	P	G	E	E	G	E	E	E	P
Sodium Chloride	G	P	G	E	E	G	E	E	E	E
Sodium Chromate	P	G	E	E	E	G	E	E	E	
Sodium Citrate			G					E		
Sodium Cyanide	U	G	E	E	E	G	E	E	E	E
Sodium Ferricyanide			E					E		
Sodium Fluoride	P	U	G	E	E	G	E	E	E	
Sodium Hydroxide 20% Cold	E	E	E	E	E	G	G	E		E
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Sodium Hydroxide 20% Hot	E	G	E	G	G	G	P	E		
Sodium Hydroxide 50% Cold	E	E	E	E	E	G	P	E		E
Sodium Hydroxide 50% Hot	E	G	E	G	G		P	E		
Sodium Hydroxide 70% Cold	E	E	E	G	P	G	P	E		
Sodium Hydroxide 70% Hot	G	G	E	U	U	G	P	E		
Sodium Hypochlorite (Bleach)	U	U	U				E	E		U
Sodium Hyposulfite			G					E		
Sodium Lactate			E					E		
Sodium Metaphosphate	P	G	G	E	E	G		E		
Sodium Metasilicate Cold	G	P	E	G	E		G	E		
Sodium Metasilicate Hot	G	U	E					E		
Sodium Nitrate	G	G	E	P	G	G	E	E	E	E
Sodium Nitrite			G	P	U	E	G	E	G	
Sodium Perborate	G	G	G	P	G	E	E	E	E	
Sodium Peroxide	U	P	G	P	G	E	E	E	E	
Sodium Phosphate	P	P	G	G	P	E	E	E	G	
Sodium Phosphate Di-Basic	P	P	G	E	E	E	E	E	E	
Sodium Phosphate Tri-Basic	P	P	G	G	G	E	E	E	E	
Sodium Polyphosphate			G	G	G	E		E		
Sodium Salicylate			E					E		
Sodium Salts										
Sodium Silicate	G	G	G	E	E	G	E	E	E	E
Sodium Silicate, Hot	P	P	G			G		E		
Sodium Sulfate	G	G	E	E	E	E	E	E		E
Sodium Sulfide	U	G	G	E	E	G	E	E	E	E
Sodium Sulfite	P		E	E	E	G	G	E		
Sodium Tetraborate			E	E	E	G		E		
Sodium Thiosulfate	P	G	G	E	E	E	E	E	E	
Soybean	G	P	E	E	G	G	E	E	E	
Stannic Chloride	P	U	U	E	E		E	E		
Starch	G	P	G	E	E	P	E	E	E	
Steam (212 F)	E	E	E	U	U	G	P	E	U	
Stearic Acid	P	P	G	E	P	G	E	E	E	
Stoddard Solvent	G	E	E	E	G	U	E			
Styrene	E	E	E	U	U	U	G	E		
Sucrose Solutions	E	E	E	E	G	E	E			
Sugar, Syrups & Jam	G		E		G			E		
Sugar Liquids	E	G	E	E	E	G	E	E	E	
Sulfate, Black Liquor	P	P	G	P	G	G	P	E	E	
Sulfate, Green Liquor	P	P	G	P	G		P	E	E	
Sulfate, White Liquor	P	P	G	P	G		P	E	E	
Sulfur	U	P	G	U	P	G	G	E	E	
Sulfur, Molten	U	P	G	U	P	G	G	E		
Sulfur Chlorides	G	U	U	U	U	P	E	E	E	
Sulfur Dioxide, Dry	G	G	E	U	U	E	E	E	E	
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Sulfur Dioxide, Wet	U		E	U	U	G		E		
Sulfur Hexafluoride	G		E		G			E		
Sulfur Trioxide	G	G	G	U	U		G	E		
Sulfur Trioxide, Dry	G	G	G	U	U	G	E	E		
Sulfuric Acid 0 To 77%	P	U	P	G	G		E	E	P	U
Sulfuric Acid 100%	P	P	E	U	U	P	G	E	U	U
Sulfurous Acid	U	U	G	P	P	P	E	E	P	
Sunsafe	U	E	E	E	G	U	E			
Tall Oil	G	G	G	G	G	U	E	E		
Tannic Acid	G	P	G	G	G	G	E	E	E	U
Tanning Liquors			G	G	U			E		
Tar & Tar Oils	E	E	E	P	U	U	E	E		
Tartaric Acid	G	U	E	P	G	G	E	E	E	
Terpineol				G	U	U	E			
Tertiary Butyl Alcohol	E	E	E	G	G	G	E			
Tetrachloroethane		G	E	U	U	U	E			
Tetrachloroethylene	U	G	U	U	U	E				
Tetraethyl Lead	G	P	G					E	E	
Titanium Tetrachloride	G	E	G	G	U	U	E			
Toluol (Toluene)	E	E	E	U	U	U	G	E	E	E
Tomato Juice	P	P	E	E	E		E	E	E	
Transformer Oil	G	E	E	E	G		E	E	E	
Transmission Fluid, Type A	E	E	E	E	G	U	E			
Tributyl Phosphate	E	E	E	U	U	G	U	E		
Trichlorethylene	G	G	G	U	U	U	G	E	E	U
Trichloroacetic Acid	G		U	P	U		U	E		
Trichloroethane		G	E	U	U	U	E			
Tricresyl Phosphate		E	G	U	U	E	G			
Triethanolamine			G	P	G	G		E		
Triethylamine	G		G	G	G			E		
Trisodium Phosphate			G	E	E	G	G	E		
Tung Oil	G	G	E	E	G	U	E	E	E	
Turbine Oil #15		G	E	G	U	U	E			
Turpentine	G	G	G	G	U	U	E	E	E	E
Urea	U	P	G	P	G	G	U	E	E	
Uric Acid			E					E		
Varnish	E	P	E	P	G	U	G	E	E	
Vegetable Oils	G	G	E	E	G	U	E	E	E	
Vinegar	G	U	E	U	U	E	U	E		E
Vinyl Acetate	G		G		G	E		E		
Water, Acid Mine	U	U	G	G	E	E	U	E		
Water, Distilled	U	U	E	P	G	G	E	E	E	
Water, Fresh	P	P	E	P	G	G	E	E	E	
Waxes	E	E	E	E	G	P	E	E	E	
Whiskey & Wines	G	U	E	G	G	E	E	E	E	
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Fluid	Brass	Carbon Steel	316 S.S.	Buna N (Niltrile)	Neoprene	EPR	Fluoro-Carbon	PTFE	Acetal	Nylon
Xylene (Xylol), Dry	E	G	E	U	U	U	G	E	E	E
Zinc Bromide	G		G	G	G	G	G	E		
Zinc Chloride	U	U	U	G	G		E	E		U
Zinc Hydrosulfite	P	E	E	E	E	E	E	E	E	
Zinc Sulfate	G	U	G	E	E	E	E	E	E	P
	E-Excellent		G-Good		P-Poor		U-Unsatisfactory			

Notes

2GF H3
3GF H3
4CB-SR L8
9-DC L9
16-CB L8
18-DC L9
20 ..... I3
22 ..... I3
22BH I4
22CA I4
22CABH I4
24B-Cabinet L9
24-CB L8
24M E12
24PLP A59, A60
24PLPD A60
26 ..... I4
27 ..... I5
28 ..... I5
32PLCK B30
32PLP A53
32PLPBH A57, A58
32PLPBHP A74
32PLPDJ A47
32PLPDJB A47
32PLPDRC A73
32PLPRC A72
32PLPSP A70
32PTC E3
37PLP A69
37PTCSP E6
40B-Cabinet L10
41FL H3
41FS H4
41FX H4
41IF H16
41IFF H16
41IFS H16
42F H4
42IFHD H17
43F H5
46F H6
46IFHD H17
48F H7
48F-X-MIX H6
48IFHD H18
50CT L10
53GH J45
55GH J45
56PSG G43
56RBSG F23
59CA G13
59HD G61
59P G43
60AB F15
60C G4
60NTA F3
60P G43
60PB G43
60PT G4
60RB F23
60TF F12
60VL F27
60VLV F27
61AB F15
61C G4
61CA G13
61HD G56
61NTA F3
61P G43
61PB G44
61PN G44
61PSGN G44
61RB F23
61RBSG F23
61TF F12
61VL F28
62AB F15
62ABH F16
62ANBH F4
62C G5
62CA G13
62CABH G14
62HD G56, G58
62HDBH G56
62NBH F4
62NFBH F4
62NTA F3
62P G44, G45
62PBH G45
62PCA G14, G45
62PCABH G14, G45
62PLM A89
62PLMBH A89, A90
62PLMSP A95
62PLP A3, A4, A17
62PLPBH A4
62PLPSP A18
62PLS A104
62PLSBH A105
62PTC E15
62RB F24
62TF F12
62VL F28
63NTA F5
63PLM A92
63PLP A68
63PT G6, G15
66AB F16
66BJB A52
66C G6
66CA G15
66HD G57
66LF A22
66NBH F5
66NTA F5
66P G46
66PLM A80
66PLMBH A90
66PLP A6
66PLPBH A5
66PTC E16
66RBSV F24
66VL F28
67PLM A94
67PLP A18
67PLS A107
67RBSG F24
68ALS E35
68BJB A51
68BJBD A52
68BJBT A52
68C G7
68CA G16
68HB I11
68HB-X-MI J42
68HB-X-MIX I12
68HD G58
68LF A26
68LFR A23, A24
68NTA-X-MI J43
68NTA-X-MIX F6
68P G46
68PLCK B32
68PLCKI B32
68PLM A80, A81, A82
68PLMSP A83
68PLP A9
68PLPR A10
68PLPSP A45
68PLS A97, A98
68PLSSP A99, A100
68RB F24

68RBSG F25
68TF F13
68VL F29
70GH J45
71GH J45
75GH J45
76RB F25
78GH J46
80GH J46
81GH J46
82GH J46
83GH J46
88AC H25
88GH J46
90GH J47
93-FB-BPD .....
94GH J47
95GH J47
96GH J47
97HC I20
97P G47
98GH J48
99GH J48
99GHSV J48
0101 ..... G24, G25, G26
0102 ..... G36
0103 ..... G31
0104 ..... G36
0105 ..... G22, G23
0106 ..... G35
0107 ..... G37
0108 ..... G30
0109 ..... G28, G29
0110 ..... G38, G40
0111 ..... G38
0114 ..... G27
0116 ..... G35
0117 ..... J17
0118 ..... G32
0119 ..... G32, G34
0121 ..... J18
122HBL I12
122PLMSP A95
0123 ..... I19
0124 ..... G38
0125 ..... G40
125HB I12
125HBL I13
125HBLSV I13
126HBL I14
0127 ..... G41
127HB I14
128HBLSV I14
129HB I15
131B14 ..... K58
0136 ..... I20
0139 ..... A20
139HB I15
139PLP A19
0142 ..... G37
0143 ..... J16
0144 ..... J16
144F H8
0145 ..... J17
145F H8
146HBLFSV I16
149F H9
149F-X-MI J41
149F-X-MIX H10
149IFHD H19
150F H10
150IFHD H20
151F H11
0152 ..... J16
0155 ..... J19
155F H11
155IFHD H21
0158 ..... J17
159F H12
159F-X-MI J42
159F-X-MIX H12
0163 ..... J20
0164 ..... J15
164C G8
164CA G17
164HD G57
164P G51
164PLM A92
164PLP A10, A11
164PLS A106
164PMT E19
164VL F30
165CA G17
165HD G57
165PLM A91
165PLMBH A91
165PLP A11
165PLS A105, A106
165PMT E20
165PMTBH E29
166FSV H13
0168 ..... G41, J19
0169 ..... J20
169C G9
169CA G18
169HB-X-MI J42
169HB-X-MIX I16
169HD G59
169LP G52
169P G52
169PLM A84, A85
169PLMBJ A94
169PLMX A85, A86
169PLP A14
169PLS A101, A102
169PLSX A103, A104
169PMT E20
169PMTBH E29
169PMTL E22
169PMTNS E21
169PMTNS-X-M E22
169PTCNS E22
169VL F30
170C G10
170CA G19
170HD G59
170P G53
170PMT E23
170PMTNS E23
170VL F32
171C G10
171CA G19
171HB I17
171HD G60
171P G53
171PLM A86, A87
171PLP A15
171PMT E24
171PMTNS E24
171VL F32
172C G10
172CA G19
172HD G60
172P G53
172PLM A88
172PLP A17
172PMT E25
172PMTNS E25
172VL F32
176C G11
176CA G20
177C G11
177CA G20

177HD....G61
177P....G54
179C....G11
179CA....G20
179HB....I17
179HB-X-MI....J43
179HD....G60
179PMT....E26
179PMTNS....E26
179VL....F32
189PMTR....E27
0191....I21
0192....J28
0199....G29
207ACBH....F21
207P....J4
208P....J4
209P....J5
210P....J5
211P....J5
212P....J6
213P....J6
215PN....J6
215PNL....J7
216P....J7
218P....J8
219P....J8
0220....G40, I6
220P....J9
222P....J9
224....I6
225....I7
226-BPD....M3
228....I7
229....I8
230....I8
231....I9
232....I9
237....I9
238....I9
244IFHD....H18
245IFHD....H19
249IF....H19
249IFHD–249IF....H19
250IFHD....H20
251IFHD....H20
252IFHD....H20
255IFHD....H21
255M....J13
259IFHD....H21
264AB....F17
264C....G8
264CA....G17
264NTA....F7
265AB....F18
265CA....G17
265NTA....F7
269C....G9
269CA....G18
269HB....I18
269TF....F13
270AB....F19
270NTA....F8
279HB....I19
316P....C61
318P....C61
322HB....C55
322PLPSP....A71
325HB....C59
329HB....C60
347PLP....A61
362PLP....A56
362PLPD....A57
362PLPDSP....A68
362PLPSP....A67
362PTC....E3, E4
362PW....A17
364HB....C56
364PLP....A55
364PTC....E4
365HB....C57
365PLP....A54
365PLPBH....A58, A59
365PTC....E4
368PLP....A46
368PLPD....A47
369PLP....A27
369PLPBJ....A48
369PLPBJB....A48
369PLPO....A78
369PLPSP....A62
369PLPSPX....A63
369PLPTJ....A49
369PLPTJB....A49
369PLPX....A33
369PTCSP....E7
370PLP....A43
370PTCR....E7
371PLP....A34
371PLPSP....A66
371PTCSP....E8
372HB....C58
372PLP....A37
372PLPSP....A65
372PTCSP....E9
376PLPBJ....A51
377PLP....A41
377PTC....E10
379PLP....A41
379PLPSP....A64
391P....G47
391PSS....G47
392P....G47
392PSS....G48
393P....G48
393PD....G48
393PDSS....G49
393PSS....G48
394P....G49
394PD....G49
394PDSS....G50
394PSS....G49
398P....G50
398PD....G51
398PDSS....G51
398PSS....G50
400-S-TIP....L3
400-T06S....L3
400-TR....L3
400-TS....L3
400-TSV....L3
410....L2
410-N....L2
410-S....L2
410-SV....L2
411FF....H16
411FS....H16
415-N....L2
415-S....L2
485F....H7
525-F-BPD....
0610....L4
0611....L6
0614....L6
639C....G11
639CA....G20
639F....H13
639PLM....A93
639PLP....A72, A19, E30
639PLS....A107
640F....H13
640QSF....H25
640QSFCR....H25

0660 ..... B40
660FHD H14
0661 ..... B40
661FHD H14
664FHD H14
0670 ..... L4
0671 ..... L5
0672 ..... L6
0673 ..... L4, L5
0674 ..... L6
0676 ..... L7
0677 ..... L5
0682 ..... L7
682C G11
682CA G20
682VL F31
0683 ..... L7
685VLV F29
880AC H25
881AC H25
0900 ..... J27
901GH J48
0902 ..... J28
0903 ..... J25
0904 ..... J25
0905 ..... J25
0906 ..... J26
0907 ..... J26
0908 ..... J24
0909 ..... J24
0910 ..... J22
0911 ..... J22
0912 ..... J21
0913 ..... J21
0914 ..... J21
0915 ..... J22
0916 ..... J23
0917 ..... J23
0920 ..... J26
0921 ..... J21
0922 ..... J21
0923 ..... J23
0924 ..... J23
0927 ..... J23
0928 ..... J24
0931 ..... I21
01200 ..... I23
1200P J9
1204P J11
01300 ..... I23
01400-xx I23
1495F H10
01500 ..... I23
1595F H12
01600 ..... I23
01640 ..... I23
1695HB I16
1695VLV F31
01700 ..... I23
1725HB I17
1795HB I18
01802 ..... I23
1817 ..... J30
1821 ..... J33, J34
1823 ..... J34
1843 ..... J29
1844 ..... J29
1845 ..... J29
1855 ..... J30
1861 ..... J33
1862 ..... J31
1863 ..... J32
1864 ..... J31
1867 ..... J32
1870 ..... J31
1871 ..... J30
1872 ..... J32
1873 ..... J33
2203P J10
2205P J12
2224P J11
2225P J11
3000 71 11 ..... M2
3000 71 11 05 ..... M2
3100 ..... D3
3110 ..... A75
3151 ..... A74
3330 ..... A75
4202 ..... K55
4203 ..... K55
4212 ..... K56
4222 ..... K56
4243 ..... K57
4890 ..... B34
4891 ..... B35
4892 ..... B35
4895 ..... B34
06167 ..... I23
06172 ..... I23
06244S I23
06254S I23
06256S I23
06264S I23
06266S I23
6300 ..... D5
6302 ..... C12
6304 ..... C11
6306 ..... C10
6307 ..... C11
6315 ..... C4
6316 ..... C4, C5
6322 ..... C17
6326 ..... C17
6340 ..... C12
6351 ..... C16
6366 ..... C13
6380 ..... C15
6382 ..... C14
6383 ..... C15
6388 ..... C16
6503 ..... C9
6505 ..... C3
6508 ..... C8
6509 ..... C7
6521 ..... C6
6548 ..... C17
6579 ..... C5
07244S I23
7800/7801 ..... B47
7805/7806 ..... B47
7892 ..... B37
7894 ..... B38
7970 ..... B42
7982 ..... B42
A613 ..... E35
A614 ..... E35
A623 ..... E35
A624 ..... E35
ACT-P-X-KIT K48
ACT-SS-X-KIT K48
ADJ-CB L8
AQRT A75, C41, E13, E30
AS C8
ASN L6
AVC1 ..... H24
AVE1 ..... H23
AVT3 ..... H24
AVTS H23
AVTS4 ..... H24
AVTS6 ..... H25
AVU1 ..... H23
AVU2 ..... H23
AVU2BH H23

AVUIFI H23
AVUR3 ..... H24
AVUS H24
AVUS3 ..... H24
AVUS4D H24
BG442-SBL L3
BU C30
BVC C64, C22, C41
BVG4PLOCK K52
BVGL K50
BVGTL K50
C8UPMTB E33
CAP C34
Clip A73
Copper Tubing L10
CR-001 ..... H25
CU C32
DB A19
DC601 ..... K67
DC602 ..... K67
DC603 ..... K68
DC604 ..... K68
DC606 ..... K68
DC607 ..... K68
DCR601 ..... K67
ERHD E28
ES E28
EU C25
F2PMTB E32
F3HG J15
F8UPMTB E32
FA C26
FC C29
FC601 ..... B44
FC602 ..... B45
FC608 ..... B45
FC701 ..... B24
FC702 ..... B25
FC703 ..... B28
FC708 ..... B26
FC731 ..... B4
FC832 ..... B21
FC836 ..... B22
FCB832 ..... B21
FCC731 ..... B3
FCCB731 ..... B5, B6
FCCI731 ..... B4, B5
FCCS731 ..... B15, B16
FCCSP731 ..... B19
FCCSPI731 ..... B19
FCI701 ..... B24
FCI702 ..... B26
FCK701C B25
FCKC731 ..... B7
FCKCB731 ..... B8
FCKCI731 ..... B7
FCM731 ..... B10, B11, B12
FCMB731 ..... B13
FCMI731 ..... B10, B11, B12
FCMK731 ..... B13
FCMS731 ..... B15
FCMSI731 ..... B16
FCMSP731 ..... B18
FCMSPI731 ..... B18, B19
FCPM832 ..... B22
FE C34
FF C33
GR C50
HPMTB E32
HV104C K60
HV104C-kit K61
JPMTB E33
LSR-Stand L9
LV91 ..... F33
MC C25
MCVC C37
ME C32
MES C27
MR C49
MRS C27
MT C49
MTS C28
MV200 ..... K42
MV308 ..... B53
MV309 ..... B53
MV608 ..... K42
MV609 ..... K42
MV708 ..... K40
MV709 ..... K40
MVV308 ..... B52, B53
MVV309 ..... B52
N C50
NV102F K60
NV103F K60
NV104CA K61
NV105C K62
NV105CA K62
NV106C K62
NV106CA K62
NV107P K62
NV108P K63
NV109P K63
NV311P G54, K63
OR C50
PLMC A93, D8
PLSC A107, D8
Pneu-Cab L10
PSBJ708 ..... B50
PSBJ731 ..... B49
PSPE731 ..... B50
PSPJ731 ..... B49
PTC-001RB M2
PV607 ..... K44
PV608 ..... K44
PV609 ..... K44
PVMB-001 ..... K44
RD C31
S C50
SAE 010101 ..... H4, H5
SAE 010102 ..... H7
SAE 010103 ..... H6
SAE 010104 ..... H5
SAE 010105 ..... H14
SAE 010106 ..... H14
SAE 010107 ..... H14
SAE 010109 ..... H13
SAE 010110 ..... H4
SAE 010111 ..... H3
SAE 010112 ..... H13
SAE 010113 ..... H3
SAE 010114 ..... H3
SAE 010201 ..... H11
SAE 010202 ..... H9
SAE 010203 ..... H10
SAE 010302 ..... H12
SAE 010401 ..... H8
SAE 010424 ..... H11
SAE 010425 ..... H8
SAE 040101 ..... H17
SAE 040102 ..... H18
SAE 040103 ..... H17
SAE 040110 ..... H16
SAE 040202 ..... H19
SAE 040302 ..... H21
SAE 040401 ..... H18
SAE 040424 ..... H20
SAE 040425 ..... H19
SAE 040427 ..... H20
SAE 060101 BA G5
SAE 060102 BA G7
SAE 060103 BA G6
SAE 060110 ..... G4
SAE 060115 ..... G4

SAE 060201 BA G8
SAE 060202 BA G9
SAE 060203 BA G10
SAE 060401 BA G8
SAE 060424 BA G10
SAE 060425 BA G10
SAE 100101 BA F3
SAE 100102 BA F6
SAE 100103 BA F5
SAE 100110 ..... F3
SAE 100115 ..... F3
SAE 100201 BA F7
SAE 100202 BA F8
SAE 100203 BA F8
SAE 100302 BA F10
SAE 100401 BA F7
SAE 100424 BA F9
SAE 100425 BA F9
SAE 120101 BA F15
SAE 120102 BA F17
SAE 120103 BA F16
SAE 120111 ..... F15
SAE 120115 ..... F15
SAE 120201 BA F18
SAE 120202 BA F18
SAE 120203 BA F19
SAE 120302 BA F20
SAE 120401 BA F17
SAE 120424 BA F19
SAE 120425 BA F20
SC C41
SPV104C-kit K61
ST C34
STX-P-1-125 ..... K71
STX-P-1-225 ..... K71
SV404P F34
TAF C33
TC-1000-BPD M2
TCB C32
TEB C35
TEU C31
TFA C33
TMC C30
TPL A19, C35
TS C41
TSC C36, D7
TU C26
U341N03 ..... K58
UC C28
V203F K64
V204F K64
V303C K65
V303CA K65
V304CA K65
V401P K65
V402P K66
V403P K66
V404P F34
V404PH F34
V405P F34
V406P K66
V407P K67
V408NTA F35
V409F F35
V410NTA F35
V412F F35
V500CS K30
V500P K3
V500P-HB K26
V500P-X-04 ..... K5
V500P-X-21 ..... K5
V501P K7
V501P-X-04 ..... K9
V501P-X-21 ..... K9
V501SS K36
V502P-X-04 ..... K12
V502P-X-ACT K46
V502P-X-SUB K47
V502SS K38
V502SS-X-20 ..... K38
V502SS-X-21 ..... K39
V502SS-X-ACT K46
V502SS-X-SUB K47
V506CS K31
V506P K14
V509P K15
V510P K17
V533P K22
V540P K22
V590P K24
V590P-X-04 ..... K24
V591P K25
V600P K28
V633P K28
VAS C22
VC B32, C37
VC-001 ..... H25
VEU C20, C20, C40
VFC C62, C21, C39
VFE C62, C20, C39
VMC C62, C21, C40
VME C19, C63, C38
VP500CS K30
VP500P K4
VP501P K8
VP502P K11
VP502SS K39
VP510P K17
VS68AB F17
VS68NTA F6
VS68PTC E18
VS176NTA F7
VS269AB F18
VS269NTA F8
VS271AB F19
VS272AB F20
VS279AB F20
VS279NTA F10
VS368PTCR E5
VS369PTCR E6
VS371PTCR E8
VS372PTCR E9
VTEU C40
VUC C39, C19, C36, C39, C63, C19
VUCPB C21, C64
VV500P K3
VV501P K7
VV502P K11
VVP500P K4
VVP501P K8
VVP502P K12
W68LF A23, A24, A25
W68PLCK B30, B31
W68PLCKI B31
W68PLP A7, A8
W68PLPSP A44
W169PLP A12, A13
W169PLPNS A13
W171PLP A14, A15
W172PLP A16
W368PLP A45, A46
W369PLP A28, A29, A30
W369PLPBJ A50
W369PLPO A77
W369PLPTJ A51
W369PLPX A31, A32
W371PLP A35, A36
W372PLP A38, A39, A40
W379PLP A42
WY C29

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 Fluid Connector Group is approved for in-flight aerospace applications. For hoses and fittings used in in-flight aerospace applications, please contact Parker Aerospace Group

GENERAL INSTRUCTIONS

1.0 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.ansi.org) also provide recommended practices for hydraulic Hose Assemblies, and should be followed.

1.1 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.

1.2 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.

1.3 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.**

1.4 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. Parker manufactures special Hose for conveying paint in airless paint spraying applications. This Hose is labeled "Electrically Conductive Airless Paint Spray Hose" on its layline 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 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 a special Hose for certain compressed natural gas ("CNG") applications where static electricity buildup may occur. Parker CNG Hose assemblies comply with the requirements of ANSI/IAS NGV 4.2; CSA 12.52, "Hoses for Natural Gas Vehicles and Dispensing Systems" (www.ansi.org). This Hose is labeled "Electrically Conductive for CNG Use" on its layline 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 dispensing or transfer. Do not use any other Hose for CNG applications where static charge buildup may occur, even if electrically conductive. Use of other Hoses in CNG 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 permeation through the Hose wall. See section 2.6, Permeation, for more information. Parker CNG Hose is intended for dispenser and vehicle use within the specified temperature range. Parker CNG 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 Hose Assemblies should be tested on a monthly basis for conductivity per ANSI/IAS NGV 4.2; CSA 12.52. 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 transient 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 insure 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, diesel fuel, gasoline, natural gas, 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 release 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 insure 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 insure 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 J517 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 insure 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.

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 Parker'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.

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

insure 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 insuring 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 potential 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 insure 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 insuring 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 potential 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 HOSE AND FITTING MAINTENANCE AND REPLACEMENT INSTRUCTIONS

5.1 Even with proper selection and installation, Hose life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a possible Hose failure, and experience with any Hose 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 Inspection Hose/Fitting: Any of the following conditions require immediate shut down and replacement of the Hose Assembly:
- Fitting slippage on Hose;
- Damaged, cracked, cut or abraded 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 potential 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 user attempt 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): Parker CNG 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. The recommended procedure is to pressurize the Hose and check for leaks and to visually inspect the Hose for damage and to perform an electrical resistance test. Caution: Matches, candles, open flame or other sources of ignition shall not be used for Hose inspection. 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 Storage: Stored Hose 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 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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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.
"Services" means any services to be provided by Seller.
"Software" means any software related to the Goods, whether embedded or separately downloaded.
"Special Tooling" means equipment acquired by Seller or otherwise owned by Seller necessary to manufacture Goods, including but not limited to tools, jigs, and fixtures.
"Terms" means the terms and conditions of this Offer of Sale.

2. **Terms**. All sales of Products by Seller will be governed by, and are expressly conditioned upon Buyer's assent to, these Terms. These Terms are incorporated into any Quote provided by Seller to Buyer. Buyer's order for any Products whether communicated to Seller verbally, in writing, by electronic data 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 or conditions of purchase. Any Quote made by Seller to Buyer shall be considered a firm and definite offer and shall not be deemed to be otherwise despite any language on the face of the Quote. Seller reserves all rights to accept or reject any purported acceptance by Buyer to Seller's Quote if such purported acceptance attempts to vary the terms of the Quote. If Seller ships Products after Buyer issues an acceptance to the Quote, any additional or different terms proposed by Buyer will not become part of the parties' business relationship unless agreed to in a writing that is signed by an authorized representative of Seller, excluding email correspondence. If the transaction proceeds without such agreement on the part of Seller, the business relationship will be governed solely by these Terms and the specific terms in Seller's Quote.

3. **Price; Payment**. The Products set forth in the Quote are offered for sale at the prices indicated in the Quote. Unless otherwise specifically stated in the Quote, prices are valid for thirty (30) days and do not include any sales, use, or other taxes or duties. Seller reserves the right to modify prices for any reason and at any time by giving ten (10) days prior written notice. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2020). All sales are contingent upon credit approval and full payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified in the Quote). Under any circumstances, Buyer may not withhold or suspend payment of any amounts due and payable as a deduction, set-off or recoupment of any amount, claim or dispute with Seller. Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law. Seller reserves the right to require advance payment or provision of securities for first and subsequent deliveries if there is any doubt, in Seller's sole determination, regarding the Buyer's creditworthiness or for other business reasons. If the requested advance payment or securities are not provided to Seller's satisfaction, Seller reserves the right to suspend performance or reject the purchase order, in whole or in part, without prejudice to Seller's other rights or remedies, including the right to full compensation. Seller may revoke or shorten any payment periods previously granted in Seller's sole determination. The rights and remedies herein reserved to Seller are cumulative and in addition to any other or further rights and remedies available at law or in equity. No waiver by Seller of any breach by Buyer of any provision of these terms will constitute a waiver by Seller of any other breach of such provision.

4. **Shipment; Delivery; Title and Risk of Loss**. All delivery dates are approximate, and Seller is not responsible for damages or additional costs resulting from any delay. All deliveries are subject to our ability to procure materials from our suppliers. 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 carrier at Seller's facility. Unless otherwise agreed prior to shipment and for domestic delivery locations only, Seller will select and arrange, at Buyer's sole expense, the carrier and means of delivery. When Seller selects and arranges the carrier and means of delivery, freight and insurance costs for shipment to the designated delivery location will be prepaid by Seller and added as a separate line item to the invoice. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions. Buyer shall not return or repackage any Products without the prior written authorization from Seller, and any return shall be at the sole cost and expense of Buyer.

5. **Warranty**. The warranty for 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 date of completion of the Services; 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: **EXEMPTION CLAUSE; DISCLAIMER OF WARRANTY, CONDITIONS, REPRESENTATIONS: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY, CONDITION, AND REPRESENTATION, PERTAINING TO PRODUCTS. SELLER DISCLAIMS ALL OTHER WARRANTIES, CONDITIONS, AND REPRESENTATIONS, WHETHER STATUTORY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE RELATING TO 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, 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 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.

09/22

7. **LIMITATION OF LIABILITY**. **IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE THE NON-CONFORMING PRODUCTS, 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 INCLUDING ANY LOSS OF REVENUE OR PROFITS, 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. **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

09/22

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.

09/22

Notes

Notes

Parker's Motion & Control Product Groups

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker.

For further info call
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(1 800 272 7537).



Aerospace

Key Markets

Aftermarket services
Commercial transports
Engines
General & business aviation
Helicopters
Launch vehicles
Military aircraft
Missiles
Power generation
Regional transports
Unmanned aerial vehicles

Key Products

Control systems & actuation products
Engine systems & components
Fluid conveyance systems & components
Fluid metering, delivery & atomization devices
Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes



Automation

Key Markets

Alternative energy
Conveyor & material handling
Factory automation
Food & beverage
Life sciences & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery
Primary metals
Safety & security
Semiconductor & electronics
Transportation & automotive

Key Products

AC/DC drives & systems
Air preparation
Electric actuators, gantry robots & slides
Human machine interfaces
Inverters
Manifolds
Miniature fluidics
Pneumatic actuators & grippers
Pneumatic valves & controls
Rotary actuators
Stepper motors, servo motors, drives & controls
Structural extrusions
Vacuum generators, cups & sensors



Climate & Industrial Controls

Key Markets

Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

Accumulators
Advanced actuators
CO2 controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & fittings
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves



Filtration

Key Markets

Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

Analytical gas generators
Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & systems



Fluid Connectors

Key Markets

Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube fittings & adapters
Tubing & plastic fittings



Hydraulics

Key Markets

Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products

Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators Sensors



Instrumentation

Key Markets

Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products

Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection fittings & valves
Fluoropolymer chemical delivery fittings, valves & pumps
High purity gas delivery fittings, valves, regulators & digital flow controllers
Industrial mass flow meters/controllers
Permanent no-weld tube fittings
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control fittings, valves, regulators & manifold valves



Seal

Key Markets

Aerospace
Chemical processing
Consumer
Fluid power
General industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
Telecommunications
Transportation

Key Products

Dynamic seals
Elastomeric o-rings
Electro-medical instrument design & assembly
EMI shielding
Extruded & precision-cut, fabricated elastomeric seals
High temperature metal seals
Homogeneous & inserted elastomeric shapes
Medical device fabrication & assembly
Metal & plastic retained composite seals
Shielded optical windows
Silicone tubing & extrusions
Thermal management
Vibration dampening

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