Parker Autoclave Engineers: Fluid Components Product Catalog

February 2013











Valves, Fittings and Tubing

Pressures to 150,000 psi (10,000 bar)

aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding





Fittings and Tubing

Low Pressure

Pressures to 15,000 psi (1034 bar)

Since 1945 Parker Autoclave Engineers has designed and built premium quality valves, fittings and tubing. This commitment to engineering and manufacturing excellence has earned Parker Autoclave Engineers a reputation for reliable, efficient product performance. Parker Autoclave Engineers has long been established as the world leader in high pressure fluid handling components for the chemical/petrochemical, research, and oil and gas industries.

Low Pressure Fittings and Tubing Features:

- Single-ferrule compression sleeve.
- Fast easy make-up of connection.
- Available sizes are 1/16", 1/8", 1/4", 3/8", & 1/2".
- Fittings manufactured from cold worked 316 stainless steel.
- Tubing is manufactured from dual rated 316/316L and 304/304L annealed stainless steel.
- All items available in special materials.
- Operating temperatures from -100°F (-73°C) to 650°F (343°C).
- Molybdenum disulfide-coated gland nuts to prevent galling.

The Low Pressure Series uses Parker Autoclave Engineers' SpeedBite connection. This singleferrule compression sleeve connection delivers fast, easy make-up and reliable bubble-tight performance, in liquid or gas service.







Fittings and Tubing - Low Pressure Fittings

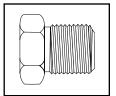
Pressures to 15,000 psi (1034 bar)

Parker Autoclave Engineers Low Pressure Fittings are designed for use with low pressure valves and tubing. These fittings feature improved SpeedBite compression connections with larger orifices for excellent flow capabilities. Parker Autoclave Engineers fittings and components are manufactured of cold-worked type 316 stainless steel. Optional materials are available upon request.



Connection Components

All valves and fittings are supplied complete with appropriate glands and compression sleeves. To order these components separately, use order numbers listed. When using plug, sleeve is not required.



Gland SMN ()

Add tube size () 1/8" - 20 1/4" - 40

3/8" - 60

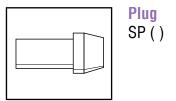
1/2" - 80

Example: 1/4" Gland - SMN 40

Note: Special material glands may be supplied with four flats in place of standard hex.

Sleeve

SSL()



† When ordering glands separately for 10V Series 1/4" and 3/8" valves, substitute 10N for SMN.

1/16" tubing system components are available in the mini-fitting series. 1/16" tubing components can be used in 10V Series valves and fittings if required. Consult factory for information on 1/16" tubing assembly in 1/8" tubing components.

To ensure proper fit use Parker Autoclave Engineers tubing. For mounting hole option add suffix PM to catalog number. Consult factory for mounting hole dimensions.

Catalog	Connection	Outside	Pressure	Minimum		E	Dimensio	ons - incl	nes (mm)		Block	Fitting
Number		Diameter Tube	Rating psi (bar)*	Opening	А	В	С	D Typical	E	F	G Thickness	Thickness	Pattern

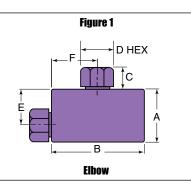
Elbow

SL2200	W125	1/8	15,000	0.094	1.00	1.50	0.31	0.38	0.75	0.75	0.62	
		(3.18)	(1034.19)	(2.39)	(25.40)	(38.10)	(7.87)	(9.53)	(19.05)	(19.05)	(15.75)	
SL4400	SW250	1/4	15,000	0.188	1.38	2.00	0.44	0.63	1.00	1.00	0.75	0
		(6.35)	(1034.19)	(4.78)	(35.05)	(50.80)	(11.18)	(15.88)	(25.40)	(25.40)	(19.05)	See
SL6600	SW375	3/8	15,000	0.250	1.38	2.00	0.53	0.75	1.00	1.00	0.75	Figure 1
		(9.53)	(1034.19)	(6.35)	(35.05)	(50.80)	(13.46)	(19.05)	(25.40)	(25.40)	(19.05)	
SL8800	SW500	1/2	10,000	0.375	1.75	2.50	0.53	0.93	1.25	1.25	1.00	
		(12.70)	(689.46)	(9.53)	(44.45)	(63.50)	(13.46)	(23.62)	(31.75)	(31.75)	(25.40)	

*Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower.

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All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

Catalog	Connection	Outside	Pressure	Minimum		Γ	Dimensio	ons - inch	ies (mm)		Block	Fitting
Number	Туре	Diameter Tube	Rating psi (bar)*	Opening	А	В	С	D Typical	Е	F	G Thickness	Thickness	Pattern

_		
T	O	O
	G	G

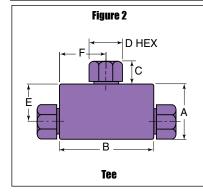
ST2220	W125	1/8	15,000	0.094	1.00	1.50	0.31	0.38	0.75	0.75	0.62	
		(3.18)	(1034.19)	(2.39)	(25.40)	(38.10)	(7.87)	(9.53)	(19.05)	(19.05)	(15.75)	
ST4440	SW250	1/4	15,000	0.188	1.38	2.00	0.44	0.63	1.00	1.00	0.75	<u>Coo</u>
		(6.35)	(1034.19)	(4.78)	(35.05)	(50.80)	(11.18)	(15.88)	(25.40)	(25.40)	(19.05)	See
ST6660	SW375	3/8	15,000	0.250	1.38	2.00	0.53	0.75	1.00	1.00	0.75	Figure 2
		(9.53)	(1034.19)	(6.35)	(35.05)	(50.80)	(13.46)	(19.05)	(25.40)	(25.40)	(19.05)	
ST8880	SW500	1/2	10,000	0.375	1.75	2.50	0.53	0.93	1.25	1.25	1.00	
		(12.70)	(689.46)	(9.53)	(44.45)	(63.50)	(13.46)	(23.62)	(31.75)	(31.75)	(25.40)	
ross												
SX2222	W125	1/8	15,000	0.094	1.50	1.50	0.31	0.38	0.75	0.75	0.62	
		(3.18)	(1034.19)	(2.39)	(38.10)	(38.10)	(7.87)	(9.53)	(19.05)	(19.05)	(15.75)	
SX4444	SW250	1/4	15,000	0.188	2.00	2.00	0.44	0.63	1.00	1.00	0.75	0
		(6.35)	(1034.19)	(4.78)	(50.80)	(50.80)	(11.18)	(15.88)	(25.40)	(25.40)	(19.05)	See
SX6666	SW375	3/8	15,000	0.250	2.00	2.00	0.53	0.75	1.00	1.00	0.75	Figure 3
		(9.53)	(1034.19)	(6.35)	(50.80)	(50.80)	(13.46)	(19.05)	(25.40)	(25.40)	(19.05)	
SX8888	SW500	1/2	10,000	0.375	2.50	2.50	0.53	0.93	1.25	1.25	1.00	
		(12.70)	(689.46)	(9.53)	(63.50)	(63.50)	(13.46)	(23.62)	(31.75)	(31.75)	(25.40)	

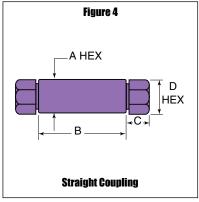
Straight Coupling

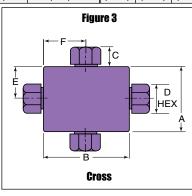
15F2211	W125	1/8	15,000	0.094	0.50	1.25	0.31	0.38			
		(3.18)	(1034.19)	(2.39)	(12.70)	(31.75)	(7.87)	(9.53)			
6F4422	SW250	1/4	15,000	0.188	0.62	1.62	0.44	0.63			0
		(6.35)	(1034.19)	(4.78)	(15.75)	(41.15)	(11.18)	(15.88)			See
6F6622	SW375	3/8	15,000	0.250	0.75	1.75	0.53	0.75			Figure 4
		(9.53)	(1034.19)	(6.35)	(19.05)	(44.45)	(13.46)	(19.05)			
4F8822	SW500	1/2	10,000	0.375	1.00	2.00	0.53	0.93			
		(12.70)	(689.46)	(9.53)	(25.40)	(50.80)	(13.46)	(23.62)			

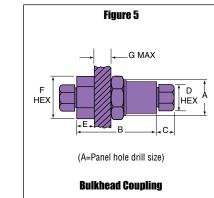
Bulkhead Coupling

15BF2211	W125	1/8 (3.18)	15,000 (1034.19)	0.094 (2.39)	0.690 (17.53)	1.75 (44.45)	0.31 (7.87)	0.38 (9.53)	0.38 (9.53)	0.75 (19.05)	0.38 (9.53)	
6BF4422	SW250	1/4	15,000	0.188	0.940	1.88	0.44	0.63	0.50	1.00	0.38	-
		(6.35)	(1034.19)	(4.78)	(23.88)	(47.75)	(11.18)	(15.88)	(12.70)	(25.40)	(9.53)	See
6BF6622	SW375	3/8	15,000	0.250	0.940	1.88	0.53	0.75	0.50	1.00	0.38	Figure 5
		(9.53)	(1034.19)	(6.35)	(23.88)	(47.75)	(13.46)	(19.05)	(12.70)	(25.40)	(9.53)	
4BF8822	SW500	1/2	10,000	0.375	1.120	2.38	0.53	0.93	0.78	1.38	0.38	
		(12.70)	(689.46)	(9.53)	(28.45)	(60.45)	(13.46)	(23.62)	(19.81)	(35.05)	(9.53)	









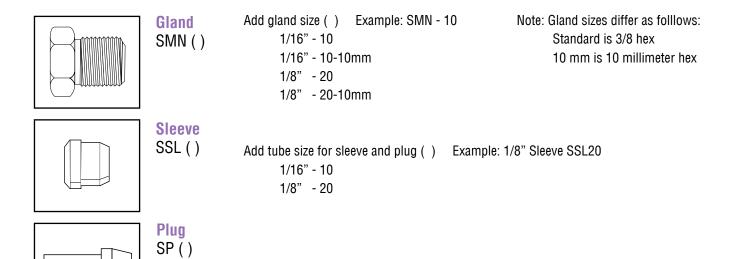
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Fittings and Tubing - Mini Series Fittings

Pressure to 15,000 psi (1034 bar)

All Parker Autoclave Engineers valves and fittings are supplied complete with appropriate glands and compression sleeves. To order these components separately, use order numbers listed. When using plug, sleeve is not required.



Note: Special material glands may be supplied with four flats in place of standard hex.

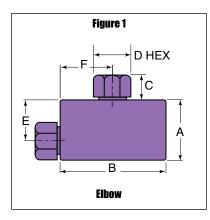
Catalog	Connection	Outside	Pressure	Minimum		[Dimensio	ons - incl	nes (mm)	Block	Fitting
Number		Diameter Tube	Rating psi (bar)*	Opening	A	В	С	D Typical	E	F	Thickness	Pattern

Elbow				3/8 incl	n hex glands (D Dimensio	on)						
MLE1100	W062	1/16	15,000	0.055	1.00	1.00	0.31	0.38	0.69	0.69		0.56	
		(1.59)	(1034.20)	(1.40)	(25.40)	(25.40)	(7.87)	(9.53)	(17.45)	(17.45)		(14.27)	
MLE2200	W125	1/8	15,000	0.093	1.00	1.00	0.31	0.38	0.69	0.69		0.56	
		(3.18)	(1034.20)	(2.36)	(25.40)	(25.40)	(7.87)	(9.53)	(17.45)	(17.45)		(14.27)	0
10 millimeter hex glands (D Dimension)													See Figure 1
ML1100	W062	1/16	15,000	0.055	1.00	1.00	0.31	0.39	0.69	0.69		0.56	-
		(1.59)	(1034.20)	(1.40)	(25.40)	(25.40)	(7.87)	(10.00)	(17.45)	(17.45)		(14.27)	
ML2200	W125	1/8	15,000	0.093	1.00	1.00	0.31	0.39	0.69	0.69		0.56	
		(3.18)	(1034.20)	(2.36)	(25.40)	(25.40)	(7.87)	(10.00)	(17.45)	(17.45)		(14.27)	

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Catalog	Connection	Outside	Pressure	Minimum		Γ	Dimensio	ons - incl	nes (mm)	Block	Fitting
Number	Туре	Diameter Tube	Rating psi (bar)*	Opening	A	В	С	D Typical	E	F	Thickness	Pattern

Tee				3/8 inch h	ex glands (D Dimensio	on)							
MTE1110	W062	1/16	15,000	0.055	1.00	1.38	0.31	0.38	0.69	0.69		0.56		
		(1.59)	(1034.20)	(1.40)	(25.40)	(34.93)	(7.87)	(9.53)	(17.45)	(17.45)		(14.27)		
MTE2220	W125	1/8	15,000	0.093	1.00	1.38	0.31	0.38	0.69	0.69		0.56		
		(3.18)	(1034.20)	(2.36)	(25.40)	(34.93)	(7.87)	(9.53)	(17.45)	(17.45)		(14.27)	See	
	10 millimeter hex glands (D Dimension)													
MT1110	W062	1/16	15,000	0.055	1.00	1.38	0.31	0.39	0.69	0.69		0.56		
		(1.59)	(1034.20)	(1.40)	(25.40)	(34.93)	(7.87)	(10.00)	(17.45)	(17.45)		(14.27)		
MT2220	W125	1/8	15,000	0.093	1.00	1.38	0.31	0.39	0.69	0.69		0.56		
		(3.18)	(1034.20)	(2.36)	(25.40)	(34.93)	(7.87)	(10.00)	(17.45)	(17.45)		(14.27)		

Cross

3/8 inch hex glands (D Dimension)

MXE1111	W062	1/16	15,000	0.055	1.38	1.38	0.31	0.38	0.69	0.69		0.56			
		(1.59)	(1034.20)	(1.40)	(34.93)	(34.93)	(7.87)	(9.53)	(17.45)	(17.45)		(14.27)			
MXE2222	W125	1/8	15,000	0.093	1.38	1.38	0.31	0.38	0.69	0.69		0.56			
		(3.18)	(1034.20)	(2.36)	(34.93)	(34.93)	(7.87)	(9.53)	(17.45)	(17.45)		(14.27)	See		
	10 millimeter hex glands (D Dimension)														
MX1111	W062	1/16	15,000	0.055	1.38	1.38	0.31	0.39	0.69	0.69		0.56			
		(1.59)	(1034.20)	(1.40)	(34.93)	(34.93)	(7.87)	(10.00)	(17.45)	(17.45)		(14.27)			
MX2222	W125	1/8	15,000	0.093	1.38	1.38	0.31	0.39	0.69	0.69		0.56			
		(3.18)	(1034.20)	(2.36)	(34.93)	(34.93)	(7.87)	(10.00)	(17.45)	(17.45)		(14.27)			

Straight Couplings

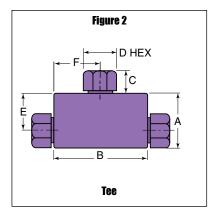
3/8 inch hex glands (D Dimension)

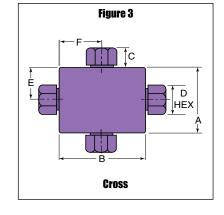
MCE1100	W062	1/16 (1.59)	15,000 (1034.20)	0.055 (1.40)	0.50 (12.70)	1.25 (31.75)	0.31 (7.87)	0.38 (9.53)					
MCE2200	W125	1/8	15,000	0.093	0.50	1.25	0.31	0.38					
MOLZZOU	VV125	(3.18)	(1034.20)	(2.36)	(12.70)	(31.75)	(7.87)	(9.53)					See
	10 millimeter hex glands (D Dimension)												
MC1100	W062	1/16	15,000	0.055	0.50	1.25	0.31	0.39					-
		(1.59)	(1034.20)	(1.40)	(12.70)	(31.75)	(7.87)	(10.00)					
MC2200	W125	1/8	15,000	0.093	0.50	1.25	0.31	0.39					
		(3.18)	(1034.20)	(2.36)	(12.70)	(31.75)	(7.87)	(10.00)					

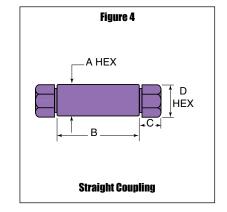
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Fluings and Tubing - Low Pressure Tubing

Pressures to 15,000 psi (1034 bar)

Parker Autoclave Engineers offers a complete selection of annealed, seamless stainless steel tubing designed to match the performance standards of Parker Autoclave low pressure valves and fittings. Parker Autoclave Engineers low pressure tubing is furnished in random lengths between 20 feet (6 meters) and 26.5 feet (8.0 meters).



The average is 24 feet (7.3 meters). The tubing is available in five sizes and a variety of materials. In order to ensure proper sleeve "bite" into tubing, Parker Autoclave Engineers specifies and controls the strength levels of both the tube and sleeve materials.

Inspection and Testing

Parker Autoclave Engineers low pressure tubing is inspected for compliance with specified defect restrictions as well as carburization or intergranular carbide precipitation. The tubing outside diameter and wall thickness is controlled within close tolerance to assure proper fit. Sample pieces of tube (for each lot) are tested to confirm mechanical properties for proper compression sleeve "bite" and pressure capability. Furthermore, the sample tubes are pressure tested as a final check.

Special Materials

In addition to the type 316/316L and 304/304L stainless steel tubing listed in this section, Parker Autoclave Engineers has a limited stock of hard-to-obtain shorter lengths of the following

tubing materials:

Monel 400*, Inconel 600*, Titanium Grade 2*, Nickel 200*, Hastelloy C276* - (* Trademark names) Nominal Tubing Size inches (mm)

Tubing Tolerance

1/16 (1.59) 1/8 (3.18) 1/4 (6.35) 3/8 (9.53) 1/2 (12.70) Tolerance/Outside Diameter inches (mm) .064/.062 (1.62/1.57) .128/.125 (3.25/3.18) .254/.250 (6.45/6.35) .379/.375 (9.74/9.53) .505/.500 (12.83/12.70)

Please consult factory for stock availabil	ty.
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Catalog	Tube	Fits	Τι	ube Size Inches (mm)	Flow		Workir	ng Pressure psi	i (bar)*	
Number	Materials	Connection Type	Outside Diameter	Inside Diameter	Wall Thickness	Area in. ² (mm ²)	0 - 100°F -17.8 to 37.8°C	200°F 93°C	400°F 204°C	600°F 316°C	650°F 343°C
MS15-070	316SS	W062	1/16 (1.59)	0.026 (0.66)	0.018 (0.46)	0.0005 (0.32)	15,000 (1034.20)	15,000 (1034.20)	14,400 (992.83)	13,600 (937.67)	12,600 (868.73)
MS15-200	316SS	11/105	1/8	0.052 (1.32)	0.036 (0.91)	0.002 (1.29)	15,000 (1034.20)	15,000 (1034.20)	14,400 (992.83)	13,600 (937.67)	12,600 (868.73)
MS15-166 ⁺	304SS	W125	(3.18)	0.069 (1.75)	0.028 (0.71)	0.004 (2.58)	9,950 (686.02)	9,400 (648.10)	8,550 (589.49)	8,450 (582.60)	8,000 (551.57)
MS15-203	316SS			0.084 (2.13)	0.083 (2.11)	0.029 (18.71)	15,000 (1034.16)	15,000 (1034.16)	14,400 (992.83)	13,600 (937.67)	12,600 (868.73)
MS15-055	316SS			0.125 (3.18)	0.062 (1.57)	0.012 (7.74)	11,650 (803.23)	11,650 (761.86)	11,250 (775.65)	10,600 (730.83)	9,850 (679.12)
MS15-161 ⁺	304SS	W250 or	1/4 (6.35)	0.180 (4.57)	0.035 (0.89)	0.026 (16.77)	5,450 (375.76)	5,150 (355.07)	4,700 (324.05)	4,600 (317.15)	4,400 (303.36)
MS15-069	316SS	SW250		0.180 (4.57)	0.035 (0.89)	0.026 (16.77)	5,450 (375.76)	5,450 (375.76)	5,250 (361.97)	4,950 (341.29)	4,600 (317.15)
MS15-158 ⁺	304SS			0.194 (4.93)	0.028 (0.71)	0.029 (18.71)	4,600 (317.15)	4,350 (299.92)	3,950 (272.34)	3,900 (272.34)	3,700 (255.10)
MS15-204	316SS			0.139 (3.53)	0.118 (3.00)	0.015 (9.79)	15,000 (1034.16)	15,000 (1034.16)	14,400 (992.83)	13,600 (937.67)	12,600 (868.73)
MS15-184	304SS	W375	3/8	0.195 (4.95)	0.090 (2.29)	0.030 (19.35)	10,000 (689.46)	9,400 (648.10)	8,600 (592.94)	8,500 (586.05)	8,450 (582.60)
MS15-084	316SS	or SW375	(9.53)	0.195 (4.95)	0.090 (2.29)	0.030 (19.35)	10,000 (689.46)	10,000 (689.46)	9,650 (665.33)	9,000 (620.52)	8,400 (579.15)
MS15-155†	304SS			0.250 (6.35)	0.062 (1.57)	0.049 (31.61)	7,500 (517.10)	7,100 (489.52)	6,450 (444.70)	6,350 (437.81)	6,050 (417.13)

Catalog	Tube	Fits	T	ube Size Inches (mm)	Flow		Workir	ng Pressure ps	i (bar)*	
Number	Materials	Connection	Outside	Inside	Wall	Area	0 - 100°F	200°F	400°F	600°F	650°F
		Туре	Diameter	Diameter	Thickness	in. ² (mm ²)	-17.8 to - 37.8°C	93°C	204°C	316°C	343°C
MS15-062	316SS	W375	3/8	0.250	0.062	0.049	7,500	7,500	7,200	6,800	6,300
		or	(9.53)	(6.35)	(1.57)	(31.61)	(517.10)	(517.10)	(496.41)	(468.84)	(434.36)
MS15-162 ⁺	304SS	SW375		0.305	0.035	0.073	3,800	3,550	3,250	3,200	3,050
				(7.75)	(0.89)	(47.10)	(262.00)	(244.76)	(224.08)	(220.63)	(210.29)
MS15-205	316SS			0.270	0.118	0.055	10,000	10,000	9,650	9,000	8,400
				(6.86)	(3.00)	(35.48)	(689.46)	(689.46)	(665.33)	(620.52)	(579.15)
MS15-208 ⁺	304SS	W500	1/2	0.270	0.118	0.055	10,000	9,400	8,600	8,500	8,450
		or	(12.70)	(6.86)	(3.00)	(35.48)	(689.46)	(648.10)	(592.94)	(586.05)	(582.60
MS15-065	316SS	SW500		0.375	0.062	0.110	5,500	5,500	5,250	4,950	4,600
				(9.53)	(1.57)	(70.97)	(379.21)	(379.21)	(361.97)	(341.29)	(317.15)
MS15-165 ⁺	304SS			0.402	0.048	0.127	4,000	3,750	3,400	3,400	3,200
				(10.21)	(1.22)	(81.94)	(275.79)	(258.55)	(234.42)	(234.42)	(220.63)

*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

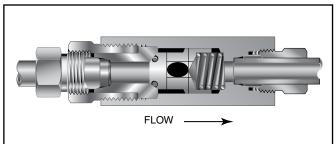
[†]Items are being discontinued. Contact the factory for available stock

All dimensions for reference only and subject to change. For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

Finings and Tubing - Low Pressure Check Valves

Pressures to 15,000 psi (1034 bar)

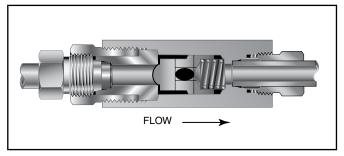
O-Ring Check Valves



Minimum operating temperature for standard o-ring check valves 0°F (-17.8°C).

For low temperature option to -100°F (-73°C) add suffix LTTO (Low temperature spring & PTFE o-ring).

Ball Check Valves



Minimum operating temperature for standard ball check valves 0°F (-17.8°C). For low temperature option to -100°F (-73°C) add suffix LT (Low temperature spring). Provide unidirectional flow and tight shut-off for liquids and gases with high reliability. When differential drops below cracking pressure*, valve shuts off. (Not for use as relief valve.)

Materials: 316 Stainless Steel: body, cover, poppet and cover gland. 300 Series Stainless Steel: spring Standard O-ring: Viton, for operation to 400° F (204°C). Buna-N or PTFE available for 250°F (121°C) or 400°F (204°C) respectively; specify when ordering.

***Cracking Pressure:** 20 psi (1.38 bar) \pm 30%. Springs for higher cracking pressures (up to 100 psi (6.89bar)) available on special order for O-ring style check valves only.

Prevent reverse flow where leak-tight shut-off is not mandatory. When differential drops below cracking pressure, valve closes. With all-metal components, valve can be used up to 650°F (343°C). See Technical Information section for connection temperature limitations. (Not for use as a relief valve.)

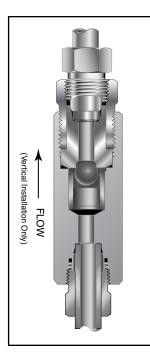
Ball and poppet are an integral design to assure positive, in-line seating without "chatter". Poppet is designed essentially for axial flow with minimum pressure drop.

Materials: 316 Stainless Steel: body, cover, cover gland, ball poppet. 300 Series Stainless Steel: spring

CAUTION: While testing has shown O-Rings to provide satisfactory service life, both cyclic and shelf life may vary widely with differing service conditions, properties of reactants, pressure and temperature cycling and age of the O-ring. FREQUENT INSPECTIONS SHOULD BE MADE to detect any deterioration, and O-rings replaced as required.

CAUTION: See Tubing section for proper selection of tubing. **NOTE:** For optional material see Needle Valve Options section.

Ball Type Excess Flow Valves



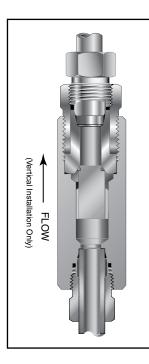
Protects pressure gauges and pressure instrumentation from sudden surges in flow or venting in the event of line failure.

Materials: 316 Stainless Steel: body, cover, gland nut and sleeve. 300 Series Stainless Steel: ball

Vertical Installation: Since this type of check valve employs a non-spring loaded ball, valve MUST be installed in VERTICAL position with arrow on valve body pointing UP. (cover gland up).

Resetting Valve: Equalize the pressure across the ball. The ball will drop and reset automatically.

O-Ring Type Excess Flow Valves



Protects pressure gauges and other pressure instrumentation from sudden surges in flow due to operator error or line failure. This valve provides dependable, tight shut-off.

Materials: 316 Stainless Steel: body, cover and sleeve. O-Ring: Viton for operation to 400°F (204°C). Buna-N or PTFE available for 250°F (121°C) or 400°F (204°C) respectively; specify when ordering.

Vertical Installation: Since this type of check valve employs a non-spring loaded poppet, valve MUST be installed in VERTI-CAL position with arrow on valve body pointing UP. (cover gland up).

Resetting Valve: Equalize the pressure across the poppet. The poppet will drop and reset automatically.

CAUTION: While testing has shown O-Rings to provide satisfactory service life, both cyclic and shelf life may vary widely with differing service conditions, properties of reactants, pressure and temperature cycling and age of the O-ring. FREQUENT INSPECTIONS SHOULD BE MADE to detect any deterioration, and O-rings replaced as required.

CAUTION: See Tubing section for proper selection of tubing. NOTE: For optional material see Needle Valve Options section.

Fittings and Tubing - Low Pressure Check Valves

Catalog	Fits Connection	Pressure	Orifice	Rated	Dimensions - inches (mm)						
Number	Type	Rating psi (bar)*	(mm)	C _V	А	В	С	D Typical	Hex		

O-Ring Check Valves

SW02200	W125	15,000	0.094	0.15	2.25	1.88	0.31	0.50	0.63
		(1034.19)	(2.39)		(57.15)	(47.75)	(7.87)	(12.70)	(15.88)
SW04400	SW250	15,000	0.188	0.63	3.18	2.56	0.44	0.63	0.81
		(1034.19)	(4.78)		(80.77)	(65.02)	(11.18)	(16.00)	(20.57)
SW06600	SW375	15,000	0.250	1.70	3.56	3.00	0.53	0.75	1.00
		(1034.19)	(6.35)		(90.42)	(76.20)	(13.46)	(19.05)	(25.40)
SW08800	SW500	10,000	0.375	3.40	4.18	3.50	0.53	0.93	1.38
		(689.46)	(9.53)		(106.17)	(88.90)	(13.46)	(23.62)	(35.05)

Ball Check Valves

SWB2200	W125	15,000	0.094	0.15	2.25	1.88	0.31	0.50	0.63
		(1034.19)	(2.39)		(57.15)	(47.75)	(7.87)	(12.70)	(15.88)
SWB4400	SW250	15,000	0.188	0.63	3.18	2.56	0.44	0.63	0.81
		(1034.19)	(4.78)		(80.77)	(65.02)	(11.18)	(16.00)	(20.57)
SWB6600	SW375	15,000	0.250	1.70	3.56	3.00	0.53	0.75	1.00
		(1034.19)	(6.35)		(90.42)	(76.20)	(13.46)	(19.05)	(25.40)
SWB8800	SW500	10,000	0.375	3.40	4.18	3.50	0.53	0.93	1.38
		(689.46)	(9.53)		(106.17)	(88.90)	(13.46)	(23.62)	(35.05)

Ball Type Excess Flow Valves

SWK2202	W125	15,000	0.094	0.012+	2.25	1.88	0.31	0.50	0.63
		(1034.19)	(2.39)		(57.15)	(47.75)	(7.87)	(12.70)	(15.88)
SWK4402	SW250	15,000	0.188	0.037+	3.18	2.56	0.44	0.63	0.81
		(1034.19)	(4.78)		(80.77)	(65.02)	(11.18)	(16.00)	(20.57)
SWK6602	SW375	15,000	0.250	0.104+	3.56	3.00	0.53	0.75	1.00
		(1034.19)	(6.35)		(90.42)	(76.20)	(13.46)	(19.05)	(25.40)
SWK8802	SW500	10,000	0.375	0.212+	4.18	3.50	0.53	0.93	1.38
		(689.46)	(9.53)		(106.17)	(88.90)	(13.46)	(23.62)	(35.05)

O-Ring Type Excess Flow Valves

SWK04400	SW-250	15,000	0.188	3++	3.12	2.56	0.44	0.63	0.81
		(1034.19)	(4.78)		(79.25)	(65.02)	(11.18)	(16.00)	(20.57)
SWK06600	SW-375	15,000	0.250	5++	3.50	3.00	0.53	0.75	1.00
		(1034.19)	(6.35)		(88.90)	(76.20)	(13.46)	(19.05)	(25.40)
SWK08800	SW-500	10,000	0.375	10++	4.31	3.50	0.53	0.93	1.38
		(689.46)	(9.53)		(109.47)	(88.90)	(13.46)	(23.62)	(35.05)

Note:

All check valves are furnished complete with connection components unless otherwise specified.

The 1/16" Tubing System is a complete system for use with all 1/8" components for pressure to 15,000 psi (1034 bar). Consult factory.

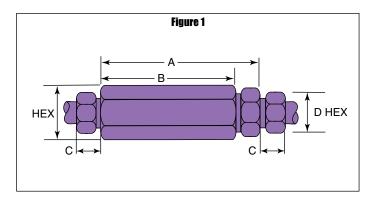
+ - Check Flow** - water, GPM ++ - Check Flow** - CFM, nitrogen @ 500 psi (34.47 bar), RT

** - For flow using alternate fluids, consult Parker Autoclave Engineers.

*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change.

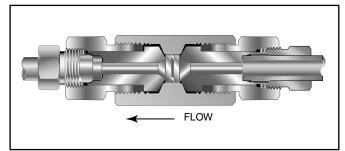
For prompt service, Parker Autoclave stocks select products. Consult your local representative.



Futnes and Tubing - Low Pressure Line Filters

Pressures to 15,000 psi (1034 bar)

Dual-Disc Line Filters

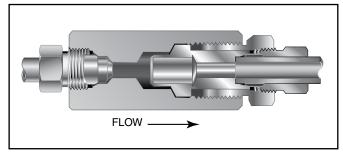


Dual-Disc Line Filters are utilized in numerous industrial, chemical processing, aerospace, nuclear and other applications. With the dual-disc design, large contaminant particles are trapped by the upstream filter element before they can reach and clog the smaller micron-size downstream element. Filter elements can be easily replaced.

Materials: 316 Stainless Steel: Body, covers and gland nuts. Filters: 316L Stainless Steel.

Filter Elements: Downstream/upstream micron size 35/65 is standard. 5/10 or 10/35 also available when specified. Other element combinations available on special order.

Cup-Type Line Filters



High Flow Cup-Type Line Filters are recommended in low pressure systems requiring both high flow rates and maximum filter surface area. Widely used in the industrial and chemical processing fields, the cup design offers as much as six times the effective filter area as compared to disc-type units. In addition, the filter elements can be quickly and easily replaced.

Materials: 316 Stainless Steel: Body, covers and gland nuts. Filter: 316L Stainless Steel.

Filter Elements: 300 Series Stainless Steel sintered cup. Standard elements available in choice of 5, 35 or 65 micron sizes. *Note: Filter ratings are nominal.*

NOTE 1: All filters furnished complete with connection components unless otherwise specified. All dimensions for reference only and subject to change. For optional materials, see Needle Valve Options section

NOTE 2: Parker Autoclave Engineers disc and cup type filters are designed to filter small amounts of process particles. It is recommended that all fluids are thoroughly cleaned prior to entering the higher pressure system.

NOTE 3: Special material filters may be supplied with four flats in place of standard hex.

NOTE 4: Pressure differential not to exceed 1,000 psi (69 bar) in a flowing condition.

NOTE 5: Larger micron size filter element is installed on the upstream (inlet) side.

Fittings and Tubing - Low Pressure Line Filters

Catalog	Pressure	Orifice	Micron	Connection	Effective Filter Element	Dimensions - inches (mm)						
Number	Rating psi (bar)*	(mm)	Size**	Size and Type	Area in. ² (mm ²)	А	В	С	D Typical	Hex		

Dual-Disc Line Filters

SLF2200			35/65							
SLF2200-5/10	15,000 (1034.19)	.094 (2.39)	5/10	W125	.06 (38.70)	2.31 (58.67)	1.25 (31.75)	0.31 (7.87)	.50 (12.70)	0.62 (15.74)
SLF2200-10/35	(1054.19)	(2.33)	10/35		(30.70)	(30.07)	(31.73)	(1.07)	(12.70)	(13.74)
SLF4400	15,000	.125	35/65	SW250	.15	2.94	1.68	0.44	.63	0.81
SLF4400-5/10	(1034.19)	(3.18)	5/10		(96.77)	(75.56)	(42.67)	(11.17)	(15.88)	(20.57)
SLF4400-10/35			10/35							
SLF6600	15,000	.125	35/65	SW375	.15	2.94	1.68	0.53	.75	1.00
SLF6600-5/10	(1034.19)	(3.18)	5/10	50075	(96.77)	(75.56)	(42.67)	(13.46)	(19.05)	(25.40)
SLF6600-10/35	, ,	, , , , , , , , , , , , , , , , , , ,	10/35		, , , , , , , , , , , , , , , , , , ,		· ,	· · ·	. ,	
SLF8800	10,000	.188	35/65	SW500	.25	3.56	1.94	0.53	.93	1.18
SLF8800-5/10	(689.46)	(4.78)	5/10	344300	(161.29)	(90.42)	(49.27)	(13.46)	(23.62)	(29.97)
SLF8800-10/35		. ,	10/35		. ,			. ,		

Cup-Type Line Filters

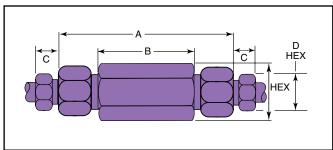
SWF4-5	15,000	.188	5	SW250	0.81	3.18	2.56	0.44	0.63	0.81
SWF4-35	(1034.19)	(4.78)	35		(522.57)	(80.77)	(65.02)	(11.17)	(15.88)	(20.57)
SWF4-65			65							
SWF6-5	15,000	.312	5	SW375	0.81	3.56	3.00	0.53	0.75	1.00
SWF6-35	(1034.19)	(7.92)	35		(522.57)	(90.42)	(76.20)	(13.46)	(19.05)	(25.40)
SWF6-65	1		65							
SWF8-5	10,000	.438	5	SW500	1.53	4.18	3.50	0.53	.93	1.38
SWF8-35	(689.46)	(11.13)	35	0000	(987.09)	(106.17)	(88.90)	(13.46)	(23.62)	(35.05)
SWF8-65			65							

** Larger micron size filter element is installed on upstream (inlet) side. All filters furnished complete with connection components unless otherwise specified.

Other micron sizes available on special order. Change last digits of the catalog number accordingly. For optional materials, see Needle Valve Options section.

The 1/16" Tubing System is a complete system for use with all 1/8" components for pressure to 15,000 psi (1034 bar). Consult factory.

Dual-Disc Line Filters

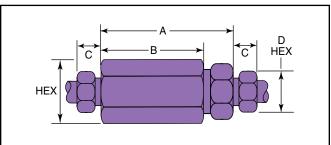


*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

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For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

Cup-Type Line Filters



Fittings, Tubing & Nipples

Medium Pressure

Pressures to 20,000 psi (1379 bar)

Since 1945 Parker Autoclave Engineers has designed and built premium quality valves, fittings and tubing. This commitment to engineering and manufacturing excellence has earned Parker Autoclave Engineers a reputation for reliable, efficient product performance. Parker Autoclave Engineers has long been established as the world leader in high pressure fluid handling components for the chemical/petrochemical, research, and oil and gas industries.



Medium Pressure Fittings, Tubing and Nipples Features:

- Coned-and-Threaded Connection.
- Available sizes are 1/4", 3/8", 9/16", 3/4", 1" and 1-1/2".
- Fittings manufactured from cold worked 316 stainless steel.
- Tubing is manufactured from dual rated 316/316L and 304/304L cold worked stainless steel.
- Operating Temperatures from -423°F (-252°C) to 1200°F (649°C).
- Anti-vibration connection components available.
- All items available in special material.

The medium pressure series uses Parker Autoclave Engineers medium pressure connection. This coned-and-threaded connection features orifice sizes to match the high flow characteristics of this series.







www.autoclave.com

Medium Pressure Fittings

Pressures to 20,000 psi (1379 bar)

Parker Autoclave Engineers medium pressure fittings. Series SF, are designed for use with Series 20SM medium pressure valves and Parker Autoclave Engineers' medium pressure tubing. They incorporate medium pressure coned-and-threaded connections with orifices sized to match the high-flow Series 20SC valves.

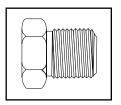


Connection Components

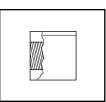
All Parker Autoclave valves and fittings are supplied complete with appropriate glands and collars. To order these components separately, use order numbers listed. When using plug, collar is not required.

Collar

CCLX()



Gland CGLX()



Plug CPX()

Add tube size ()

1/4" - 40 3/8" - 60 9/16" - 90

3/4" - 120

1" - 160 1-1/2" - 240 Example:

1/4" Gland - CGLX 40

To ensure proper fit use Parker Autoclave Engineers tubing.

Note: Special material glands may be supplied with four flats in place of standard hex.

Catalog	Connection	Outside	Pressure	Minimum		[Dimensio	ons - incl	nes (mm)		Block	Fitting
Number	Туре	Diameter Tube	Rating psi (bar)*	Opening	А	В	С	D Typical	E	F	G Thickness	Thickness	Pattern

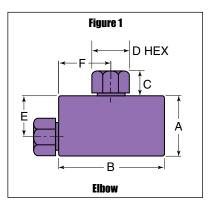
Elbow

CLX4400	SF250CX	1/4	20,000	0.125	1.12	1.50	0.38	0.50	0.75	0.75	0.62	
		(6.35)	(1378.93)	(3.18)	(28.45)	(38.10)	(9.53)	(12.70)	(19.05)	(19.05)	(15.75)	
CLX6600	SF375CX	3/8	20,000	0.219	1.38	2.00	0.44	0.62	1.00	1.00	0.75	
		(9.53)	(1378.93)	(5.56)	(35.05)	(50.80)	(11.10)	(15.75)	(25.40)	(25.40)	(19.05)	
CLX9900	SF562CX	9/16	20,000	0.359	1.75	2.50	0.53	0.94	1.25	1.25	1.00	•
		(14.29)	(1378.93)	(9.12)	(44.45)	(63.50)	(13.46)	(23.88)	(31.75)	(31.75)	(25.40)	See
CLX12	SF750CX	3/4	20,000	0.516	2.25	3.00	0.62	1.19	1.50	1.50	1.38	Figure 1
		(19.05)	(1378.93)	(13.11)	(57.15)	(76.20)	(15.75)	(30.23)	(38.10)	(38.10)	(34.93)	
CLX16	SF1000CX	1	20,000	0.688	3.00	4.12	0.72	1.38	2.06	2.06	1.75	
		(25.40)	(1378.93)	(17.48)	(76.20)	(104.65)	(18.29)	(35.05)	(52.32)	(52.32)	(44.45)	
CLX24	SF1500CX	1-1/2	15,000	0.94	4.00	5.75	1.12	1.88	2.88	2.88	2.25	
		(38.10)	(1034.20)	(23.80)	(101.60)	(146.05)	(28.45)	(47.63)	(73.03)	(73.03)	(57.15)	

*Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change. For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.



For mounting hole option add suffix PM to catalog number. Consult factory for mounting hole dimensions.

Catalog	Connection	Outside								Block	Fitting		
Number	Туре	Diameter Tube	Rating psi (bar)*	Opening	A	В	C	D Typical	E	F	G Thickness	Thickness	Pattern

Tee

CTX4440	SF250CX	1/4	20,000	0.125	1.12	1.50	0.38	0.50	0.75	0.75	0.62	
		(6.35)	(1378.93)	(3.18)	(28.45)	(38.10)	(9.53)	(12.70)	(19.05)	(19.05)	(15.75)	
CTX6660	SF375CX	3/8	20,000	0.219	1.38	2.00	0.44	0.62	1.00	1.00	0.75	
		(9.53)	(1378.93)	(5.56)	(35.05)	(50.80)	(11.10)	(15.75)	(25.40)	(25.40)	(19.05)	
CTX9990	SF562CX	9/16	20,000	0.359	1.75	2.50	0.53	0.94	1.25	1.25	1.00	
		(14.29)	(1378.93)	(9.12)	(44.45)	(63.50)	(13.46)	(23.88)	(31.75)	(31.75)	(25.40)	See
CTX12	SF750CX	3/4	20,000	0.516	2.25	3.00	0.62	1.19	1.50	1.50	1.38	Figure 2
		(19.05)	(1378.93)	(13.11)	(57.15)	(76.20)	(15.75)	(30.23)	(38.10)	(38.10)	(34.93)	
CTX16	SF1000CX	1	20,000	0.688	3.00	4.12	0.72	1.38	2.06	2.06	1.75	
		(25.40)	(1378.93)	(17.48)	(76.20)	(104.65)	(18.29)	(35.05)	(52.32)	(52.32)	(44.45)	
CTX24	SF1500CX	1-1/2	15,000	0.94	4.00	5.75	1.12	1.88	2.88	2.88	2.25	
		(38.10)	(1034.20)	(23.80)	(101.60)	(146.05)	(28.45)	(47.63)	(73.03)	(73.03)	(57.15)	

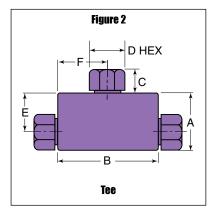
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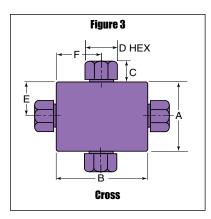
CXX4444	SF250CX	1/4	20,000	0.125	1.50	1.50	0.38	0.50	0.75	0.75	0.62	
		(6.35)	(1378.93)	(3.18)	(38.10)	(38.10)	(9.53)	(12.70)	(19.05)	(19.05)	(15.75)	
CXX6666	SF375CX	3/8	20,000	0.219	2.00	2.00	0.44	0.62	1.00	1.00	0.75	
		(9.53)	(1378.93)	(5.56)	(50.80)	(50.80)	(11.10)	(15.75)	(25.40)	(25.40)	(19.05)	
CXX9999	SF562CX	9/16	20,000	0.359	2.50	2.50	0.53	0.94	1.25	1.25	1.00	
		(14.29)	(1378.93)	(9.12)	(63.50)	(63.50)	(13.46)	(23.88)	(31.75)	(31.75)	(25.40)	See
CXX12	SF750CX	3/4	20,000	0.516	3.00	3.00	0.62	1.19	1.50	1.50	1.38	Figure 3
		(19.05)	(1378.93)	(13.11)	(76.20)	(76.20)	(15.75)	(30.23)	(38.10)	(38.10)	(34.93)	
CXX16	SF1000CX	1	20,000	0.688	4.12	4.12	0.72	1.38	2.06	2.06	1.75	
		(25.40)	(1378.93)	(17.48)	(104.65)	(104.65)	(18.29)	(35.05)	(52.32)	(52.32)	(44.45)	
CXX24	SF1500CX	1-1/2	15,000	0.94	5.75	5.75	1.12	1.88	2.88	2.88	2.25	
		(38.10)	(1034.20)	(23.80)	(146.05)	(146.05)	(28.45)	(47.63)	(73.03)	(73.03)	(57.15)	

*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change. For prompt service, Parker Autoclave Engineers stocks select products.

Consult your local representative.





For mounting hole option add suffix PM to catalog number. Consult factory for mounting hole dimensions.

Catalog	Connection	Outside	Pressure	Minimum		[Dimensio	ons - incl	nes (mm)		Block	Fitting
Number		Diameter Tube	Rating psi (bar)*	Opening	A	В	С	D Typical	E	F	G Thickness	Thickness	

Straight Coupling / Union Coupling

20FX4466	SF250CX	1/4	20,000	0.125	0.62	1.62	0.38	0.50	Straight	
20UFX4466		(6.35)	(1378.93)	(3.18)	(15.75)	(41.15)	(9.53)	(12.70)	Union	
20FX6666	SF375CX	3/8	20,000	0.219	0.75	1.75	0.44	0.62	Straight	
20UFX6666		(9.53)	(1378.93)	(5.56)	(19.05)	(44.45)	(11.10)	(15.75)	Union	
20FX9966	SF562CX	9/16	20,000	0.359	1.00	2.12	0.53	0.94	Straight	
20UFX9966		(14.29)	(1378.93)	(9.12)	(25.40)	(53.85)	(13.46)	(23.88)	Union	See
20FX12	SF750CX	3/4	20,000	0.516	1.38	2.50	0.62	1.19	Straight	Figure 4
20UFX12		(19.05)	(1378.93)	(13.11)	(35.05)	(63.50)	(15.75)	(30.23)	Union	
20FX16	SF1000CX	1	20,000	0.688	1.75	3.50	0.72	1.38	Straight	
20UFX16		(25.40)	(1378.93)	(17.48)	(44.45)	(88.90)	(18.29)	(35.05)	Union	
15FX24	SF1500CX	1-1/2	15,000	0.94	2.25	5.00	1.12	1.88	Straight	
15UFX24		(38.10)	(1034.20)	(23.80)	(25.15)	(127.00)	(28.45)	(47.63)	Union	

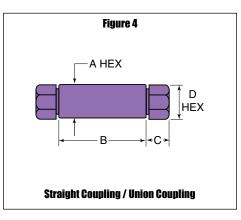
Bulkhead Coupling

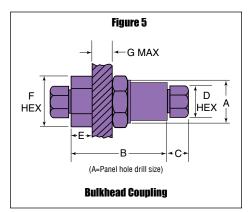
20BFX4466	SF250CX	1/4	20,000	0.125	0.81	1.88	0.38	0.50	0.53	1.00	0.38	
		(6.35)	(1378.93)	(3.18)	(20.57)	(47.75)	(9.53)	(12.70)	(13.46)	(25.40)	(9.53)	
20BFX6666	SF375CX	3/8	20,000	0.219	0.94	2.00	0.44	0.62	0.62	1.00	0.38	
		(9.53)	(1378.93)	(5.56)	(23.88)	(50.80)	(11.10)	(15.75)	(15.75)	(25.40)	(9.53)	
20BFX9966	SF562CX	9/16	20,000	0.359	1.12	2.38	0.53	0.94	0.78	1.38	0.38	
		(14.29)	(1378.93)	(9.12)	(28.45)	(60.45)	(13.46)	(23.88)	(19.81)	(35.05)	(9.53)	See
20BFX12	SF750CX	3/4	20,000	0.516	1.69	2.62	0.62	1.19	0.91	1.88	0.38	Figure 5
		(19.05)	(1378.93)	(13.11)	(42.93)	(66.55)	(15.75)	(30.23)	(23.11)	(47.75)	(9.53)	-
20BFX16	SF1000CX	1	20,000	0.688	1.94	3.50	0.72	1.38	1.50	1.88+	0.38	
		(25.40)	(1378.93)	(17.48)	(49.28)	(88.90)	(18.29)	(35.05)	(38.10)	(47.75)	(9.53)	
15BFX24	SF1500CX	1-1/2	15,000	0.94	2.44	5.00	1.12	1.88	2.00	2.50+	0.38	
		(38.10)	(1034.20)	(23.80)	(61.85)	(127.00)	(28.45)	(47.63)	(50.80)	(63.50)	(9.53)	

 $^{*}\mbox{Maximum}$ pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing

pressure rating, if lower. + distance across flats

All dimensions for reference only and subject to change. For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.





Union Couplings are designed with a removable seat insert allowing disassembly and tubing removal without the necessity of loosening other items in a line.

Medium Pressure Tubing

Pressures to 20,000 psi (1379 bar)

Parker Autoclave Engineers offers a complete selection of austenetic, cold drawn stainless steel tubing designed to match the performance standards of Parker Autoclave valves and fittings. Parker Autoclave Engineers medium pressure tubing is manufactured specifically for high pressure applications requiring both strength and corrosion resistance. The tubing is furnished in random lengths between 20 feet (6 meters) and 26.5 feet (8.0 meters). The average is 24 feet (7.3 meters). Medium Pressure Tubing is available in six sizes and a variety of materials.



Inspection and Testing

Parker Autoclave Engineers' medium pressure tubing is inspected to assure freedom from seams, laps, fissures or other flaws, as well as carburization or intergranular carbide precipitation. The outside and inside diameters of the tubing are subject to special inspection and are controlled within close tolerences to assure proper fit. Sample pieces of tube for each lot are tested to confirm mechanical properties. Hydrostatic testing is also performed on a statistical basis and is conducted at the working pressure of the tube. Parker Autoclave will perform 100% hydrostatic testing at additional cost if desired.

Special Materials

In addition to the type 316/316L and 304/304L stainless steel tubing listed in this section, Autoclave has limited stock of hard-to-obtain special tubing materials:

Monel 400*, Inconel 600*, Inconel 625*, Duplex, Super Duplex, Titanium Grade 2*, Nickel 200*, Hastelloy C276* (*Trademark names) Some are available in shorter lengths only. Please consult factory for stock availability.

Tubing Tolerance

Nominal Tubing Size
inches (mm)
1/4 (6.35)
3/8 (9.53)
9/16 (14.27)
3/4 (19.05)
1 (25.40)
1-1/2 (38.10)
· /

Tolerance/Outside Diameter inches (mm) .248/.243 (6.30/6.17) .370/.365 (9.40/9.27) .557/.552 (14.15/14.02) .745/.740 (18.92/18.80) .995/.990 (25.27/25.14) 1.495/1.490 (37.98/37.85)

Catalog	Tube	Fits	Τι	ube Size Inches (mm)	Flow		Workir	ng Pressure psi	i (bar)*	
Number	Material	Connection Type	Outside Diameter	Inside Diameter	Wall Thickness	Area in. ² (mm ²)	-423 to 100°F -252 to 37.8°C	200°F 93°C	400°F 204°C	600°F 316°C	800°F 427°C
MS15-092	316SS	SF250CX	1/4	0.109	0.070	0.009	20,000 (1378.93)	20,000 (1378.93)	19,250 (1327.22)	18,050 (1244.48)	16,800 (1158.30)
MS15-192	304SS	-	(6.35)	(2.77)	(1.78)	(5.81)	20,000 (1378.93)	18,950 (1306.54)	17,200 (1185.88)	17,000 (1172.09)	16,150 (1113.49)
MS15-093	316SS	SF375CX	3/8	0.203	0.086	0.032	20,000 (1378.93)	20,000 (1378.93)	19,250 (1327.22)	18,050 (1244.48)	16,800 (1158.30)
MS15-193	304SS		(9.53)	(5.16)	(2.18)	(20.65)	20,000 (1378.93)	20,000 (1378.93)	19,250 (1327.22)	18,050 (1244.48)	16,800 (1158.30)
MS15-085	316SS	SF562CX	9/16	0.312	0.125	0.076	20,000 (1378.93)	20,000 (1378.93)	19,250 (1327.22)	18,050 (1244.48)	16,800 (1158.30)
MS15-187	304SS		(14.29)	(7.92)	(3.18)	(49.03)	20,000 (1378.93)	20,000 (1378.93)	19,250 (1327.22)	18,050 (1244.48)	16,800 (1158.30)
MS15-097	316SS	SF562CX	9/16	0.359	0.101	0.101	15,000 (1034.16)	15,000 (1034.16)	14,400 (992.83)	13,650 (941.12)	12,670 (873.55)
MS15-194	304SS		(14.29)	(9.12)	(2.57)	(65.16)	15,000 (1034.16)	14,170 (976.97)	12,900 (889.41)	12,750 (879.07)	12,670 (873.55)
MS15-095	316SS	SF750CX	3/4	0.438 (11.13)	0.156 (3.96)	0.151 (97.42)	20,000 (1378.93)	20,000 (1378.93)	19,250 (1327.22)	18,050 (1244.48)	16,800 (1158.30)
MS15-098	316SS		(19.05)	0.516 (13.11)	0.117	0.209	15,000 (1034.16)	15,000 (1034.16)	14,400 (992.83)	13,650 (941.12)	12,670 (873.55)
MS15-096	316SS		1	0.562 (14.27)	0.219 (5.56)	0.248	20,000 (1378.93)	20,000 (1378.93)	19,250 (1327.22)	18,050 (1244.48)	16,800 (1158.30)
MS15-099	316SS	SF1000CX	(25.40)	0.688 (17.48)	0.156	0.371 (239.35)	15,000 (1034.16)	15,000 (1034.16)	14,400 (992.83)	13,650 (941.12)	12,670 (873.55)
13041	316SS	SF1500CX	1-1/2 (38.10)	0.937 (23.80)	0.281 (7.15)	0.589 (444.88)	15,000 (1034.16)	15,000 (1034.16)	14,430 (994.90)	13,530 (932.85)	12,600 (868.73)

Note: Caution should be exercised in proper selection of Medium Pressure Tubing based on actual operating conditions. Two series available: 15,000 psi (1034 bar) and 20,000 psi (1379 bar). *Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower

All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

Medium Pressure Coned-and-Threaded Nipples

Pressures to 20,000 psi (1379 bar)

For rapid system make-up, Parker Autoclave Engineers supplies pre-cut, coned-and-threaded nipples in various sizes and lengths for Parker Autoclave Engineers medium pressure valves and fittings.

Special lengths

In addition to the standard lengths listed in the table below, nipples are available in any custom length. Consult factory.

Materials**

Catalog numbers in table refer to Type 316 Stainless steel. Optional materials available. Consult factory.



		Nip	Catalog Numbe ople Length In (r				Fits	Tube Siz (m		Working Pressure
2.75" (69.85)	3.00" (76.20)	4.00" (101.60)	6.00" (152.40)	8.00" (203.20)	10.00" (254.00)	12.00" (304.80)	Connection Type	0.D.	I.D.	at 100°F psi (bar)*
CNX4402-316	CNX4403-316	CNX4404-316	CNX4406-316	CNX4408-316	CNX44010-316	CNX44012-316	SF250CX	1/4 (6.35)	0.109 (2.77)	20,000 (1378.93)
	CNX6603-316	CNX6604-316	CNX6606-316	CNX6608-316	CNX66010-316	CNX66012-316	SF375CX	3/8 (9.53)	0.203 (5.16)	20,000 (1378.93)
		CNX9904-316	CNX9906-316	CNX9908-316	CNX99010-316	CNX99012-316	SF562CX	9/16 (14.29)	0.312 (7.92)	20,000 (1378.93)
		CNLX9904-316	CNLX9906-316	CNLX9908-316	CNLX99010-316	CNLX99012-316	SF562CX	9/16 (14.29)	0.359 (9.12)	15,000 (1034.16)
		CNX1204-316	CNX1206-316	CNX1208-316	CNX12010-316	CNX12012-316	SF750CX	3/4 (19.05)	0.438 (11.13)	20,000 (1378.93)
		CNLX1204-316	CNLX1206-316	CNLX1208-316	CNLX12010-316	CNLX12012-316	SF750CX	3/4 (19.05)	0.516 (13.11)	15,000 (1034.16)
			CNX1606-316	CNX1608-316	CNX16010-316	CNX16012-316	SF1000CX	1 (25.40)	0.562 (14.27)	20,000 (1378.93)
			CNLX1606-316	CNLX1608-316	CNLX16010-316	CNLX16012-316	SF1000CX	1 (25.40)	0.688 (17.48)	15,000 (1034.16)
			CNLX2406-316	CNLX2408-316	CNLX24010-316	CNLX24012-316	SF1500CX	1-1/2 (38.10)	0.937 (23.79)	15,000 (1034.16)

Note: Caution should be exercised when selecting medium pressure nipples since two series are available: 15,000 psi (1034.16 bar) and 20,000 psi (1379 bar)

See medium pressure tubing section for pressures at various temperatures.

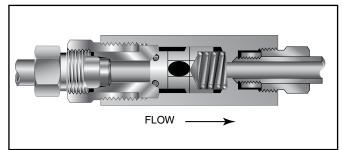
*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower. **Type 304 Stainless Steel nipples available.

All dimensions for reference only and subject to change.

Medium Pressure Check Valves

Pressures to 20,000 (1379 bar)

O-Ring Check Valves



Minimum operating temperature for standard o-ring check valves 0°F (-17.8°C).

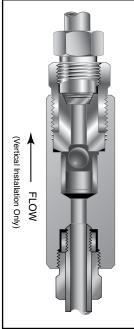
For low temperature option to -423°F (-252°C) add suffix LTTO (Low temperature spring & PTFE o-ring).

Ball Check Valves

Minimum operating temperature for standard ball check valves -110°F (-79°C). For low temperature option to -423°F (-252°C) add suffix

LT (Low temperature spring).

Ball Type Excess Flow Valves



Provides unidirectional flow and tight shut-off for liquids and gas with high reliability. When differential drops below cracking pressure*, valve shuts off. (Not for use as relief valve.)

Materials: 316 Stainless Steel: body, cover, poppet, cover gland. 300 Series Stainless Steel: spring Standard O-ring: Viton, for operation to 400° F (204°C). Buna-N or PTFE available for 250°F (121°C) or 400°F (204°C) respectively; specify when ordering.

***Cracking Pressure:** 20 psi (1.38 bar) ±30%. Springs for higher cracking pressures (up to 100 psi (6.89 bar)) available on special order for O-ring style check valves only.

Prevents reverse flow where **leak-tight shut-off is not manda-tory**. When differential drops below cracking pressure, valve closes. With all-metal components, valve can be used up to 1200°F (649°C). See Technical Information section for connection temperature limitations. (Not for use as a relief valve.)

The ball and poppet are an integral design to assure positive, in-line seating without "chatter". Poppet is designed essentially for axial flow with minimum pressure drop.

Materials: 316 Stainless Steel: body, cover, ball poppet, cover gland. 300 Series Stainless Steel: ball, spring.

Protects pressure gauges and pressure instrumentation from surges in flow or sudden venting in the event of line failure.

Materials: 316 Stainless Steel: body, cover, sleeve, cover gland. 300 Series Stainless Steel: ball.

Vertical Installation: Since this type of check valve employs a non-spring loaded ball, valve MUST be installed in VERTICAL position with arrow on valve body pointing UP. (cover gland up).

Resetting Valve: Equalize the pressure across the ball. The ball will drop and reset automatically.

CAUTION: While testing has shown O-Rings to provide satisfactory service life, both cyclic and shelf life may vary widely with differing service conditions, properties of reactants, pressure and temperature cycling and age of the O-ring. FREQUENT INSPECTIONS SHOULD BE MADE to detect any deterioration, and O-rings replaced as required.

CAUTION: See Tubing section for proper selection of tubing. NOTE: For optional material see Needle Valve Options section.

NOTE: Special material check valves may be supplied with four flats in place of standard hex.

Medium Pressure Check Valves

Catalog	Fits	Pressure	Orifice	Rated		Dimen	sions - inches	s (mm)	
Number	Connection Type	Rating psi (bar)*	(mm)	Cv	A	В	С	D Typical	Hex

O-Ring Check Valves

CX04400	SF250CX	20,000	0.125	0.28	2.94	2.50	0.38	0.50	0.81
		(1378.93)	(3.18)		(74.68)	(63.50)	(9.53)	(12.70)	(20.57)
CX06600	SF375CX	20,000	0.218	0.84	3.12	2.62	0.47	0.62	1.00
		(1378.93)	(5.54)		(79.25)	(66.55)	(11.94)	(15.75)	(25.40)
CX09900	SF562CX	20,000	0.359	2.30	4.18	3.50	0.53	0.94	1.38
		(1378.93)	(9.12)		(106.17)	(88.90)	(13.46)	(23.88)	(35.05)
CX012	SF750CX	20,000	0.516	4.70	5.50	4.75	0.62	1.19	1.75
		(1378.93)	(13.11)		(139.70)	(120.65)	(15.75)	(30.23)	(44.45)
CX016	SF1000CX	20,000	0.688	7.40	6.63	5.75	0.72	1.38	1.88 [†]
		(1378.93)	(17.48)		(168.40)	(146.05)	(18.29)	(35.05)	(47.75)
CX024	SF1500CX	15,000	0.94	14.00	9.01	7.25	1.12	1.88	3.00 [†]
		(1034.20)	(23.80)		(228.85)	(184.15)	(28.45)	(47.75)	(76.20)

Ball Check Valves

CXB4400	SF250CX	20,000	0.125	0.28	2.94	2.50	0.38	0.50	0.81
		(1378.93)	(3.18)		(74.68)	(63.50)	(9.53)	(12.70)	(20.57)
CXB6600	SF375CX	20,000	0.218	0.84	3.12	2.62	0.47	0.62	1.00
		(1378.93)	(5.54)		(79.25)	(66.55)	(11.94)	(15.75)	(25.40)
CXB9900	SF562CX	20,000	0.359	2.30	4.18	3.50	0.53	0.94	1.38
		(1378.93)	(9.12)		(106.17)	(88.90)	(13.46)	(23.88)	(35.05)
CXB12	SF750CX	20,000	0.516	4.70	5.50	4.75	0.62	1.19	1.75
		(1378.93)	(13.11)		(139.70)	(120.65)	(15.75)	(30.23)	(44.45)
CXB16	SF1000CX	20,000	0.688	7.40	6.63	5.75	0.72	1.38	1.88 [†]
		(1378.93)	(17.48)		(168.40)	(146.05)	(18.29)	(35.05)	(47.75)
CXB24	SF1500CX	15,000	0.94	14.00	9.01	7.25	1.12	1.88	3.00†
		(1034.20)	(23.80)		(228.85)	(184.15)	(28.45)	(47.75)	(76.20)

Ball Type Excess Flow Valves

CXK4402	SF250CX	20,000	0.125	0.037+	2.94	2.50	0.38	0.50	0.81
		(1378.93)	(3.18)		(74.68)	(63.50)	(9.65)	(12.70)	(20.57)
CXK6602	SF375CX	20,000	0.218	0.066+	3.12	2.62	0.47	0.62	1.00
		(1378.93)	(5.54)		(79.25)	(66.55)	(11.94)	(15.75)	(25.40)
CXK9902	SF562CX	20,000	0.359	.212+	4.18	3.50	0.53	0.94	1.38
		(1378.93)	(9.12)		(106.17)	(88.90)	(13.46)	(23.88)	(35.05)
CXK1202	SF750CX	20,000	0.516	.368+	5.12	4.38	0.62	1.19	1.75
		(1378.93)	(13.11)		(130.05)	(111.25)	(15.75)	(30.23)	(44.45)
CXK1602	SF1000CX	20,000	0.688	.864+	6.50	5.62	0.72	1.38	1.88 [†]
		(1378.93)	(17.48)		(165.10)	(142.75)	(18.29)	(35.05)	(47.75)

Note:

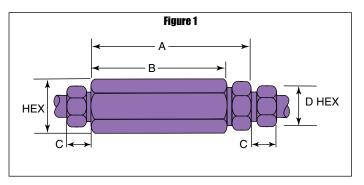
* Check Flow - water, GPM

For flow rates using alternate fluids, consult Parker Autoclave Engineers.

 $^{\ast}\mbox{Maximum}$ pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.



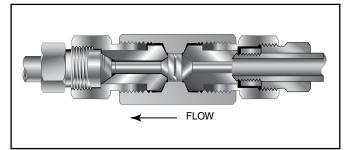
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Medium Pressure Line Filters

Pressures to 20,000 psi (1379 bar)

Dual-Disc Line Filters

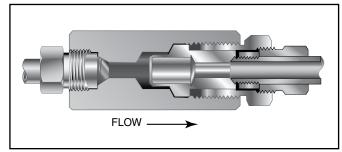


Parker Autoclave Engineers Dual-Disc Line Filters are utilized in numerous industrial, chemical processing, aerospace, nuclear and other applications. With the dual-disc design, large contaminant particles are trapped by the upstream filter element before they can reach and clog the smaller micron-size downstream element. Filter elements can be easily replaced.

Materials: 316 Stainless Steel: body, cover, cover gland. 300 Series Stainless Steel: filter elements.

Filter Elements: Downstream/upstream micron size 35/65 is standard. 5/10 or 10/35 also available when specified. Other element combinations available on special order.

Cup-Type Line Filters



Parker Autoclave Engineers High Flow Cup-Type Line Filters are recommended in high pressure systems requiring both high flow rates and maximum filter surface area. Widely used in the industrial and chemical processing fields, the cup design offers as much as six times the effective filter area as compared to disc-type units. In addition, the filter elements can be quickly and easily replaced.

Materials: 316 Stainless Steel: body, cover, cover gland. 300 Series Stainless Steel: filter element.

Filter Elements: Sintered cup elements available in choice of 5, 35 or 65 micron sizes. *Note:* Filter ratings are nominal.

NOTE 1: All filters furnished complete with connection components unless otherwise specified. All dimensions for reference only and subject to change.

For optional materials, see Needle Valve Options section

NOTE 2: Parker Autoclave Engineers disc and cup type filters are designed to filter small amounts of process particles. It is recommended that all fluids are thoroughly cleaned prior to entering the higher pressure system.

NOTE 3: Special material filters may be supplied with four flats in place of standard hex.

NOTE 4: Pressure differential not to exceed 1,000 psi (69 bar) in a flowing condition.

NOTE 5: Larger micron size filter element is installed on the upstream (inlet) side.

Catalog	Pressure	Orifice	Micron	Connection	Effective Filter Element	[)imensio	ons - incl	hes (mm)
Number	Rating psi (bar)*	inches (mm)	Size**	Size and Type	Area in. ² (mm ²)	A	В	С	D Typical	Hex

Dual-Disc Line Filters

CLFX9900	20,000 (1378.93)	0.312 (7.92)	35/65							
CLFX9900-5/10	20,000 (1378.93)	0.312 (7.92)	5/10	SF562CX	0.25 (161.29)	4.94 (125.48)	2.68 (68.07)	0.53 (13.46)	.94 (23.88)	1.38 (35.05)
CLFX9900-10/35	20,000 (1378.93)	0.312 (7.92)	10/35							

Cup-Type Line Filters

CXF4-5	20,000	0.125	5		0.81	2.94	2.50	0.38	.50	0.81
CXF4-35	(1378.93)	(3.18)	35	SF250CX	(522.57)	(74.68)	(63.50)	(9.53)	(12.70)	(20.57)
CXF4-65			65							
CXF6-5	20,000	0.218	5		0.81	3.12	2.62	0.47	.62	1.00
CXF6-35	(1378.93)	(5.54)	35	SF375CX	(522.57)	(79.25)	(66.55)	(11.99)	(15.75)	(25.40)
CXF6-65			65							
CXF9-5	20,000	0.359	5		1.53	4.18	3.50	0.53	.94	1.38
CXF9-35	(1378.93)	(9.12)	35	SF562CX	(987.09)	(106.17)	(88.90)	(13.46)	(23.88)	(35.05)
CXF9-65			65							
CXF12-10	20,000	0.516	10	SF750CX	2.65	5.50	4.75	.62	1.50	1.75
CXF12-35	(1378.93)	(13.10)	35	567500X	(1709.67)	(139.7)	(120.65)	(15.75)	(38.10)	(44.45)
CXF16-5			5		5.00	6.62	5.75	0.72	1.38	2.12
CXF16-10	20,000	0.688	10	SF1000CX	(3225.80)	(168.15)	(146.05)	(18.29)	(35.05)	(53.05)
CXF16-35	(1378.93)	(17.48)	35	SFIDDUCA						
CXF16-65			65							

Note: ** Other micron sizes available on special order. Change last digits of the catalog number accordingly. For optional materials, see Needle Valve Options section.

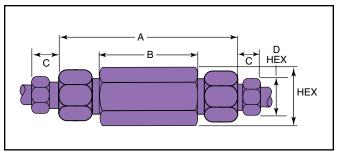
 $^{\ast}\mbox{Maximum}$ pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower.

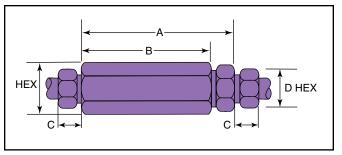
All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

Dual-Disc Line Filters



Cup-Type Line Filters



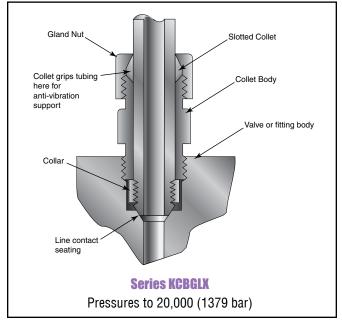
Anti-Vibration Collet Gland Assembly

Pressures to 20,000 psi (1379 bar)

Series KCBGLX Sizes to 1-1/2" (38.10 mm) For extreme conditions of vibration and/or shock in tubing systems, such as an unsupported line near a compressor, conedand-threaded connections are offered with the Parker Autoclave anti-vibration collet gland assembly. Completely interchangeable with standard Parker Autoclave Engineers medium pressure connections, the collet gland assembly provides equally effective pressure handling capability.

In standard connection systems, the bending stresses on the threaded area of the tubing imposed by excessive vibration or movement may cause premature fatigue failure of the tubing at the back of the thread. By moving the stress concentration back to the unthreaded part of the tubing and providing a wedge-type gripping action, the Parker Autocalve Engineers anti-vibration collet gland assembly strengthens the entire structure. With stress concentration reduced and overall stress level maintained well below the endurance limit of the material, the result is virtually unlimited vibrational fatigue life.

A less complex and more economical design than other vibration-resistant connections, the collet gland assembly utilizes the same coned-and-threaded features of Parker Autoclave Engineers medium pressure connections. Series KCBGLX extends the gland nut to provide room for the tapered slotted collet. The design provides a slight difference in angles between the collet and the corresponding taper of the gland nut. As the nut is tightened, it acts to wedge the tapered end of the collet into a gripping engagement with the tubing.

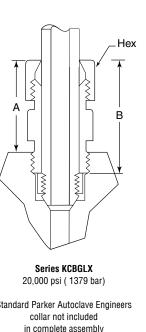


Materials

Type 316 stainless steel with bonded dry film (316 MC) moly lubricant.

- Note: 1) To order components with anti-vibration assemblies add -K to catalog numbers.
 - 2) Special material assemblies may be supplied with four flats in place of standard hex.

Catalog		Outside Diameter	Dime	nsions - inches	(mm)	
Number	Part	Tubing Size in. (mm)	A	В	Hex	
KCBGLX40-316MC	Complete assembly					
KCBLX40-316MC	Collet body	1/4	0.94	1.19	0.62	
KCCLX40-316MC	Slotted collet	(6.35)	(23.88)	(30.23)	(15.75)	
KGLX40-316MC	Gland nut					
KCBGLX60-316MC	Complete assembly					
KCBLX60-316MC	Collet body	3/8	1.19	1.50	0.81	
KCCLX60-316MC	Slotted collet	(9.53)	(30.23)	(38.10)	(20.63)	
KGLX60-316MC	Gland nut					
KCBGLX90-316MC	Complete assembly					1,
KCBLX90-316MC	Collet body	9/16	1.41	1.78	0.94	/
KCCLX90-316MC	Slotted collet	(14.29)	(35.81)	(45.21)	(23.88)	
KGLX90-316MC	Gland nut					
KCBGLX120-316MC	Complete assembly					
KCBLX120-316MC	Collet body	3/4	1.59	2.00	1.25	
KCCLX120-316MC	Slotted collet	(19.05)	(40.37)	(50.80)	(31.75)	
KGLX120-316MC	Gland nut					
KCBGLX160-316MC	Complete assembly					1
KCBLX160-316MC	Collet body	1	1.69	2.38	1.50	
KCCLX160-316MC	Slotted collet	(25.40)	(42.93)	(60.45)	(38.10)	
KGLX160-316MC	Gland nut					Sta
KCBGLX240-316MC	Complete assembly					1
KCBLX240-316MC	Collet body	1-1/2	2.75	3.63	2.25	
KCCLX240-316MC	Slotted collet	(38.10)	(69.85)	(92.20)	(57.15)	
KGLX240-316MC	Gland nut					



All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative

Fittings and Tubing

QS Series Medium Pressure

Pressures to 15,000 psi (1034 bar)

Since 1945 Parker Autoclave Engineers has designed and built premium quality valves, fittings and tubing. This commitment to engineering and manufacturing excellence has earned Parker Autoclave Engineers a reputation for reliable, efficient product performance. Parker Autoclave Engineers has long been established as the world leader in high pressure fluid handling components for the chemical/petrochemical, research, and oil and gas industries.



QS Medium Pressure Fittings and Tubing:

- Available sizes are 1/4, 3/8, 9/16, 3/4 and 1".
- Fittings and tubing manufactured from high strength stainless steel.
- Molybdenum disulfide-coated gland nuts to prevent galling.
- Gland nut positioning mark for assembly.
- Single-ferrule compression sleeve.
- Connection weep holes for safety and leak detection.
- Fast easy make-up of connection.
- Operating Temperatures from 0°F (-17.8°C) to 650°F (343°C).
- 1" QS fitting bodies are 2507 Super Duplex standard.

The Medium Pressure QS Series uses Parker Autoclave Engineers' Quick Set compression sleeve design. This single-ferrule compression sleeve connection delivers fast, easy make-up and reliable bubble-tight performance in liquid or gas service.





Fittings and Tubing - QS Series

Pressures to 15,000 psi (1034 bar)

Parker Autoclave Engineers Medium Pressure QS Fittings are designed for use with QS Series valves and medium pressure tubing. These fittings feature improved compression connections with larger orifices for excellent flow capabilities. Parker Autoclave Engineers fittings and components are manufactured of high strength stainless steel.

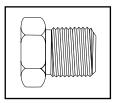


Connection Components

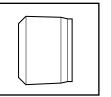
All Parker Autoclave Engineers valves and fittings are supplied complete with appropriate glands and sleeves. To order these components separately, use order numbers listed. When using plug, sleeve is not required.

Sleeve

QSS()



Gland QSG()



Plua QSP()

Add tube size () 1/4" - 40

> 3/8" - 60 9/16" - 90 3/4" - 120 1" - 160

Example: 1/4" Gland - QSG 40 To ensure proper fit use Parker Autoclave Engineers tubing. For mounting hole option add suffix PM to catalog number. Consult factory for mounting hole dimensions.

Catalog	Connection	Outside	Pressure	Minimum		[Dimensio	ons - inch	nes (mm)		Block	Fitting
Number		Diameter Tube	Rating psi (bar)*	Opening	А	В	C	D Typical	E	F	G Thickness	Thickness	Pattern

Elbow

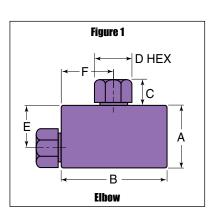
QSL4400	QS250	1/4	15,000	0.16	1.38	2.00	0.52	0.63	1.00	1.00	0.75	
		(6.35)	(1034.20)	(3.99)	(34.93)	(50.80)	(13.23)	(15.88)	(25.40)	(25.40)	(19.05)	
QSL6600	QS375	3/8	15,000	0.25	1.50	2.00	0.55	0.75	1.00	1.00	0.81	
		(9.53)	(1034.20)	(6.35)	(38.10)	(50.80)	(14.00)	(19.05)	(25.40)	(25.40)	(20.62)	
QSL9900	QS562	9/16	15,000	0.36	2.19	3.00	0.82	1.19	1.50	1.50	1.25	See
		(14.29)	(1034.20)	(9.12)	(55.58)	(76.20)	(20.83)	(30.18)	(38.10)	(38.10)	(31.75)	Figure 1
QSL12	QS750	3/4	15,000	0.52	2.94	4.13	1.04	1.50	2.06	2.06	1.50	riguio i
		(19.05)	(1034.20)	(13.11)	(74.63)	(104.78)	(26.37)	(38.10)	(52.40)	(52.40)	(38.10)	
QSL16	QSF1000	1	15,000	0.688	3.5	4.75	1.19	1.75	2.38	2.38	2.00	
		(25.4)	(1034.20)	(17.48)	(88.90)	(120.65)	(30.18)	(44.45)	(60.33)	(60.33)	(50.80)	

*Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower

All dimensions for reference only and subject to change. For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

1" QS fitting bodies are 2507 Super Duplex



For mounting hole option add suffix PM to catalog number. Consult factory for mounting hole dimensions

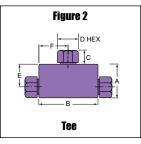
Catalog	Connection	Outside	Pressure	Minimum		Ι	Dimensio	ons - incl	nes (mm)		Block	Fitting
Number	Туре	Diameter Tube	Rating psi (bar)*	Opening	А	В	С	D Typical	E	F	G Thickness	Thickness	

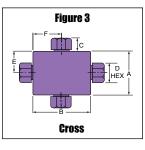
lee												
QST4440	QS250	1/4	15,000	0.16	1.38	2.00	0.52	0.63	1.00	1.00	0.75	
		(6.35)	(1034.20)	(3.99)	(34.93)	(50.80)	(13.23)	(15.88)	(25.40)	(25.40)	(19.05)	
QST6660	QS375	3/8	15,000	0.25	1.50	2.00	0.55	0.75	1.00	1.00	0.81	
		(9.53)	(1034.20)	(6.35)	(38.10)	(50.80)	(14.00)	(19.05)	(25.40)	(25.40)	(20.62)	See
QST9990	QS562	9/16	15,000	0.36	2.19	3.00	0.82	1.19	1.50	1.50	1.25	
		(14.29)	(1034.20)	(9.12)	(55.58)	(76.20)	(20.83)	(30.18)	(38.10)	(38.10)	(31.75)	Figure 2
QST12	QS750	3/4	15,000	0.52	2.94	4.13	1.04	1.50	2.06	2.06	1.50	
		(19.05)	(1034.20)	(13.11)	(74.63)	(104.78)	(26.37)	(38.10)	(52.40)	(52.40)	(38.10)	
QST16	QSF1000	1	15,000	0.688	3.50	4.75	1.19	1.75	2.38	2.38	2.00	
		(25.4)	(1034.20)	(17.48)	(88.90)	(120.65)	(30.18)	(44.45)	(60.33)	(60.33)	(50.80)	
ross												
	0.0050		1= 000			0.00	0.50	0.00	1 0 0	1 0 0	0.85	

QSX4444	QS250	1/4	15,000	0.16	2.00	2.00	0.52	0.63	1.00	1.00	0.75	
		(6.35)	(1034.20)	(3.99)	(50.80)	(50.80)	(13.23)	(15.88)	(25.40)	(25.40)	(19.05)	
QSX6666	QS375	3/8	15,000	0.25	2.00	2.00	0.55	0.75	1.00	1.00	0.81	
		(9.53)	(1034.20)	(6.35)	(50.80)	(50.80)	(14.00)	(19.05)	(25.40)	(25.40)	(20.62)	
QSX9999	QS562	9/16	15,000	0.36	3.00	3.00	0.82	1.19	1.50	1.50	1.25	See
		(14.29)	(1034.20)	(9.12)	(76.20)	(76.20)	(20.83)	(30.18)	(38.10)	(38.10)	(31.75)	Figure 3
QSX12	QS750	3/4	15,000	0.52	4.13	4.13	1.04	1.50	2.06	2.06	1.50	riguio o
		(19.05)	(1034.20)	(13.11)	(104.78)	(104.78)	(26.37)	(38.10)	(52.40)	(52.40)	(38.10)	
QSX16	QSF1000	1	15,000	0.688	4.75	4.75	1.19	1.75	2.38	2.38	2.00	
		(25.4)	(1034.20)	(17.48)	(120.65)	(104.78)	(30.18)	(44.45)	(60.33)	(60.33)	(50.80)	

For mounting hole option add suffix PM to catalog number. Consult factory for mounting hole dimensions.

1" QS fitting bodies are 2507 Super Duplex





Catalog	Connection	Outside	Pressure	Minimum		[Dimensio	ons - incl	nes (mm)		Block	Fitting
Number	Туре	Diameter Tube	Rating psi (bar)*	Opening	A	В	С	D Typical	E	F	G Thickness	Thickness	Pattern

Straight Coupling

oungine	ovapning									
15F44QQ	QS250	1/4	15,000	0.16	0.75	1.63	0.52	0.63	Straight	
		(6.35)	(1034.20)	(3.99)	(19.05)	(41.28)	(13.23)	(15.88)		
15F66QQ	QS375	3/8	15,000	0.25	0.81	1.75	0.55	0.75	Straight	
		(9.53)	(1034.20)	(6.35)	(20.65)	(44.45)	(14.00)	(19.05)		See
15F99QQ	QS562	9/16	15,000	0.36	1.38	2.75	0.82	1.19	Straight	
		(14.29)	(1034.20)	(9.12)	(34.93)	(69.85)	(20.83)	(30.18)		Figure 4
15F12Q	QS750	3/4	15,000	0.52	1.50	3.75	1.04	1.50	Straight	
		(19.05)	(1034.20)	(13.11)	(38.10)	(95.25)	(26.37)	(38.10)	-	
15F16Q	QSF1000	1	15,000	0.688	2.75	4.50	1.19	1.75	Straight	
		(25.4)	(1034.20)	(17.48)	(69.85)	(114.30)	(30.23)	(44.45)	-	

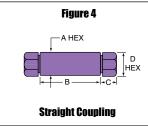
Bulkhead Coupling

15BF44QQ	QS250	1/4	15,000	0.16	0.88	2.00	0.52	0.63	0.63	1.00	0.38	
		(6.35)	(1034.20)	(3.99)	(22.23)	(50.80)	(13.23)	(15.88)	(15.88)	(25.40)	(9.53)	
15BF66QQ	QS375	3/8	15,000	0.25	1.06	2.38	0.55	0.75	0.79	1.38	0.38	
		(9.53)	(1034.20)	(6.35)	(27.00)	(60.33)	(14.00)	(19.05)	(19.94)	(34.93)	(9.53)	See
15BF99QQ	QS562	9/16	15,000	0.36	1.63	2.63	0.82	1.19	0.91	1.75	0.38	
		(14.29)	(1034.20)	(9.12)	(41.40)	(66.68)	(20.83)	(30.18)	(22.99)	(44.45)	(9.53)	Figure 5
15BF12Q	QS750	3/4	15,000	0.52	1.88	3.50	1.04	1.50	1.50	2.13	0.38	
		(19.05)	(1034.20)	(13.11)	(47.63)	(88.90)	(26.37)	(38.10)	(38.10)	(53.98)	(9.53)	
15BF16Q	QSF1000	1	15,000	0.688	2.38	5.00	1.19	1.75	2.00	1.88 [†]	0.38	
		(25.4)	(1034.20)	(17.48)	(60.33)	(127.00)	(30.23)	(44.45)	(50.80)	(47.63)	(9.53)	

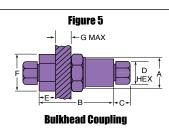
*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

1" QS fitting bodies are 2507 Super Duplex

[†] Distance across flats



All dimensions for reference only and subject to change. For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative. Union Couplings are designed with a removable seat insert allowing disassembly and tubing removal without the necessity of loosening other items in a line.



Medium Pressure Tubing

Pressures to 15,000 psi (1034 bar)

Parker Autoclave Engineers offers a complete selection of austenetic, cold drawn stainless steel tubing designed to match the performance standards of Parker Autoclave Engineers valves and fittings. Parker Autoclave Engineers medium pressure tubing is manufactured specifically for high pressure applications requiring both strength and corrosion resistance. The tubing is furnished in random lengths between 20 feet (6 meters) and 26.5 feet (8.0 meters). The average is 24 feet (7.3 meters). Medium Pressure Tubing is available in five sizes and a variety of materials.



Inspection and Testing

Parker Autoclave Engineer's medium pressure tubing is inspected to assure freedom from seams, laps, fissures or other flaws, as well as carburization or intergranular carbide precipitation. The outside and inside diameters of the tubing are subject to special inspection and are controlled within close tolerences to assure proper fit. Sample pieces of tube for each lot are tested to confirm mechanical properties. Hydrostatic testing is also performed on a statistical basis and is conducted at the working pressure of the tube. Parker Autoclave Engineers will perform 100% hydrostatic testing at additional cost if desired.

Special Materials

In addition to the type 316/316L and 304/304L stainless steel tubing listed in this section, Parker Autoclave Engineers has limited stock of hard-to-obtain special tubing materials: *Monel 400*, Inconel 600*, Inconel 625*, Duplex, Super Duplex, Titanium Grade 2*, Nickel 200*, Hastelloy C276** (*Trademark names) Some are available in shorter lengths only. Please consult factory for stock availability.

Tubing Tolerance

Nominal Tubing Size inches (mm) 1/4 (6.35) 3/8 (9.53) 9/16 (14.27) 3/4 (19.05) 1 (25.4)

Tolerance/Outside Diameter inches (mm) .248/.243 (6.30/6.17) .370/.365 (9.40/9.27) .557/.552 (14.15/14.02) .745/.740 (18.92/18.80) .995/.990 (25.27/25.14)

Catalog	Tube	Fits	Ti	ube Size Inches (mm		Flow	L		ng Pressure psi	
Number	Material	Connection Type	Outside Diameter	Inside Diameter	Wall Thickness	Area in. ² (mm ²)	-425 to 100°F -252 to 37.8°C	200°F 93°C	400°F 204°C	600°F 316°C
MS15-092**	316SS						20,000	20,000	19,250	18,050
		QS250	1/4	0.109	0.070	0.009	(1378.93)	(1378.93)	(1327.22)	(1244.48)
MS15-192**	304SS		(6.35)	(2.77)	(1.78)	(5.81)	20,000	18,950	17,200	17,000
							(1378.93)	(1306.54)	(1185.88)	(1172.09)
MS15-093**	316SS						20,000	20,000	19,250	18,050
		QS375	3/8	0.203	0.086	0.032	(1378.93)	(1378.93)	(1327.22)	(1244.48)
MS15-193**	304SS		(9.53)	(5.16)	(2.18)	(20.65)	20,000	20,000	19,250	18,050
							(1378.93)	(1378.93)	(1327.22)	(1244.48)
MS15-097	316SS	QS562	9/16	0.359	0.101	0.101	15,000	15,000	14,400	13,650
MS15-194	304SS		(14.29)	(9.12)	(2.57)	(65.16)	(1034.19)	(1034.19)	(992.82)	(941.12)
MS15-098	316SS	QS750	3/4 (19.05)	0.516 (13.11)	0.117 (2.97)	0.209 (134.84)	15,000 (1034.19)	15,000 (1034.19)	14,400 (992.82)	13,650 (941.12)
MS15-099	316SS	QS1000	1 (25.4)	0.688 (17.48)	0.156 (3.96)	0.371 (239.35)	15,000 (1034.16)	15,000 (1034.16)	14,400 (992.83)	13,650 (941.12)

*Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower

All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative

**Larger inside diameters are available as special order.

Nipples - **QS Series**

Pressures to 15,000 psi (1034 bar)

For rapid system make-up, Parker Autoclave Engineers supplies pre-assembled nipples in various sizes and lengths for Parker Autoclave QSS valves and fittings.

Special Lengths

In addition to the standard lengths listed in the table below, nipples are available in any custom length. Consult factory.

Materials

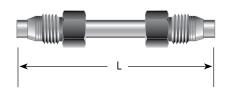
Catalog numbers in table refer to Type 316 Stainless Steel.



		atalog Number Length Inches			Fits Connection		e Size s (mm)	Working Pressure	
4.00"	6.00"	8.00"	10.00"	12.00"	Туре	monoc	, ()	at 100°	
(101.60)	(152.40)	(203.20)	(254.60)	(304.80)	51	OD	ID	psi (bar)	
QNA4404-316	QNA4406-316	QNA4408-316	QNA44010-316	QNA44012-316	QS250	1/4"	0.109	15,000	
						(6.35)	(2.77)	(1034.16)	
QNA6604-316	QNA6606-316	QNA6608-316	QNA66010-316	QNA66012-316	QS375	3/8"	0.203	15,000	
						(9.53)	(5.16)	(1034.16)	
	QNA9906-316	QNA9908-316	QNA99010-316	QNA99012-316	QS562	9/16"	0.359	15,000	
						(14.29)	(9.12)	(1034.16)	
		QNA1208-316	QNA12010-316	QNA12012-316	QS750	3/4"	0.516	15,000	
						(19.05)	(13.11)	(1034.16)	
		QNA1608-316	QNA16010-316	QNA16012-316	QS1000	1"	0.688	15,000	
						(25.40)	(17.48)	(1034.16)	

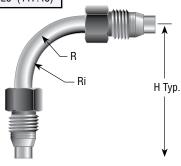
Close Tube Port Connectors

Model	Size Inches (mm)	Fits Connection Type	Dimension "L" Inches (mm)
QTS4403.25	1/4" (6.35)	QS250	3.25 (82.55)
QTS6603.50	3/8" (9.53)	QS375	3.50 (88.90)
QTS9905.25	9/16" (14.29)	QS562	5.25 (133.35)
QTS1206.375	3/4" (19.05)	QS750	6.38 (162.10)



Elbow Tube

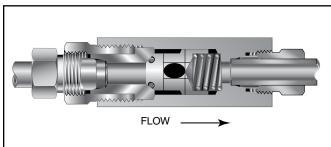
Model	Size Inches (mm)	Fits Connection Type	Dimension "H" Inches (mm)	Mean Radius "R" Inches (mm)	Inside Radius Ri Inches (mm)
QTE44-90	1/4" (6.35)	QS250	3.25 (82.55)	0.563 (14.30)	0.438 (11.13)
QTE66-90	3/8" (9.53)	QS375	3.50 (88.90)	0.938 (23.83)	0.75 (19.05)
QTE99-90	9/16" (14.29)	QS562	7.50 (19.05)	2.906 (73.82)	2.625 (66.68)
QTE12-90	3/4" (19.05)	QS750	10.00 (254.00)	3.875 (98.43)	3.5 (88.9)
QTE16-90	1" (25.40)	QS1000	11.50 (292.10)	5.125 (13.30)	4.625 (117.48)



Cheek Valves - QS Series

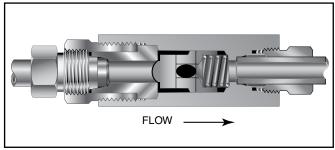
Pressures to 15,000 psi (1034 bar)

O-Ring Check Valves



Minimum operating temperature for standard o-ring check valves 0°F (-17.8°C)

Ball Check Valves



Minimum operating temperature for standard o-ring check valves 0°F (-17.8°C)

Provide unidirectional flow and tight shut-off for liquids and gases with high reliability. When differential drops below cracking pressure*, valve shuts off. (Not for use as relief valve.)

Materials: 316 Stainless Steel: Body, cover, poppet, cover gland. 300 Stainless Steel: Spring. Except 1" - see note below. Standard O-ring: Viton, for operation to 400° F (204°C). Buna-N or PTFE available for 250°F (121°C) or 400°F (204°C) respectively; specify when ordering.

***Cracking Pressure:** 20 psi (1.38 bar) ±30%. Springs for higher cracking pressures (up to 100 psi (6.89bar)) available on special order for O-ring style check valves only.

Prevent reverse flow where leak-tight shut-off is not mandatory. When differential drops below cracking pressure, valve closes. With all-metal components, valve can be used up to 650°F (343°C). See Technical Information section for connection temperature limitations. (Not for use as a relief valve.)

Ball and poppet are an integral design to assure positive, in-line seating without "chatter". Poppet is designed essentially for axial flow with minimum pressure drop.

Materials: 316 Stainless Steel: Body, cover, cover gland, ball poppet. 300 Series Stainless Steel: Spring. Except 1" - see note below.

CAUTION: While testing has shown O-Rings to provide satisfactory service life, both cyclic and shelf life may vary widely with differing service conditions, properties of reactants, pressure and temperature cycling and age of the O-ring. FREQUENT INSPECTIONS SHOULD BE MADE to detect any deterioration, and O-rings replaced as required.

CAUTION: See Tubing section for proper selection of tubing.

Catalog Fits	Pressure	Orifice	Rated		Dimension	s - inches (mn	n)	
imber Connection	Rating psi (bar)*	inches (mm)	C _V	A	В	C	D Typical	Hex

O-Ring Check Valves

QS04400	QS250	15,000 (1034.20)	0.188 (4.78)	0.15	3.18 (80.77)	2.56 (65.02)	0.44 (11.18)	0.63 (16.00)	0.81 (20.57)	
QS06600	QS375	15,000 (1034.20)	0.312 (7.93)	0.63	3.56 (90.42)	3.00 (76.20)	0.53 (13.46)	0.75 (19.05)	1.00 (25.40)	
QS09900	QS562	15,000 (1034.20)	0.359 (9.12)	2.30	5.21 (132.33)	4.50 (114.30)	0.81 (20.57)	1.19 (30.18)	1.75 (44.45)	See Figure 1
QS012	QS750	15,000 (1034.20)	0.516 (13.11)	4.70	6.40 (162.56)	5.50 (139.70)	1.03 (26.16)	1.50 (38.10)	1.88 [†] (47.75)	i iguio i
QS016	QSF1000	15,000 (1034.20)	0.688 (17.48)	14.00	8.92 (226.57)	7.52 (191.01)	1.19 (30.23)	1.75 (44.45)	3.00 (76.20)	

Ball Check Valves

QSB4400 QSB6600	QS250 QS375	15,000 (1034.20) 15,000	0.188 (4.78) 0.312 (7.02)	0.15	3.18 (80.77) 3.56 (80.42)	2.56 (65.02) 3.00	0.44 (11.18) 0.53	0.63 (16.00) 0.75	0.81 (20.57) 1.00 (25.40)	
QSB9900	QS562	(1034.20) 15,000 (1034.20)	(7.93) 0.359 (9.12)	2.30	(90.42) 5.21 (132.33)	(76.20) 4.50 (114.30)	(13.46) 0.81 (20.57)	(19.05) 1.19 (30.18)	(25.40) 1.75 (44.45)	See Figure 1
QSB12 QSB16	QS750 QS1000	15,000 (1034.20)	0.516 (13.11) 0.688	4.70	6.40 (162.56) 8.92	5.50 (139.70) 7.52	1.03 (26.16) 1.19	1.50 (38.10)	1.88 [†] (47.75) 3.00	3 * *
USBID	451000	15,000 (1034.20)	(17.48)	14.00	(226.57)	(191.01)	(30.23)	(44.45)	(76.20)	

[†]Distance across flats

Note:

All check valves are furnished complete with connection components unless otherwise specified.

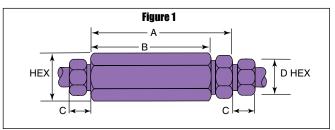
*Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave stocks select products. Consult your local representative.

1" check valve bodies, cover, cover gland and poppet is 2507 Super Duplex standard.



Fitings, Tubing & Nipples

High Pressure

Pressures to 150,000 psi (10342 bar)

Since 1945 Parker Autoclave Engineers has designed and built premium quality valves, fittings and tubing. This commitment to engineering and manufacturing excellence has earned Parker Autoclave Engineers a reputation for reliable, efficient product performance. Parker Autoclave Engineers has long been established as the world leader in high pressure fluid handling components for the chemical/petrochemical, research, and oil and gas, waterjet, and waterblast industries.



High Pressure Fittings, Tubing and Nipples Features:

- Coned-and-Threaded Connection.
- Available sizes are 1/4, 5/16, 3/8, 9/16, and 1".
- Fittings manufactured from 316 cold worked or high strength stainless steel.
- Tubing is manufactured from dual rated 316/316L and 304/304L cold worked stainless steel.
- Operating Temperatures from -423°F (-252°C) to 1200°F (649°C).
- Anti-vibration connection components available.
- Ultra-high pressure components.
- Autofrettaged tubing.
- High pressure high cycle tubing.

The high and ulta-high pressure series uses Parker Autoclave Engineers' high pressure connector. This coned-and-threaded connection provides dependable performance in gas or liquid service.





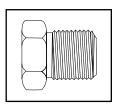
Pressures to 150,000 psi (10342 bar)

Parker Autoclave Engineers high pressure fittings Series F and SF are the industry standard for pressures to 150,000 psi (10342 bar). Utilizing Parker Autoclave Engineers high pressure coned-and-threaded connections, these fittings are correlated with Series 30SC, 43SC, 30VM, 40VM, 60VM, 100VM, and 150V valves and Parker Autoclave Engineers high pressure tubing.



Connection Components

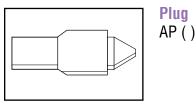
All Parker Autoclave Engineers valves and fittings are supplied complete with appropriate glands and collars. To order these components separately, use order numbers listed. When using plug, collar is not required.



Gland AGL ()



Collar ACL ()



Add tube size ()

1/4" - 40 5/16" - 50 3/8" - 60 9/16" - 90 1" - 160

Example: 9/16" Gland - AGL (90)

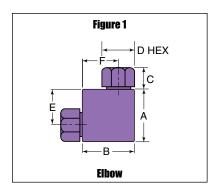
To ensure proper fit use Parker Autoclave Engineers tubing.

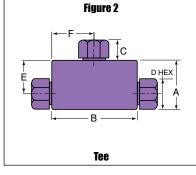
Note: Special material glands may be supplied with four flats in place of standard hex.

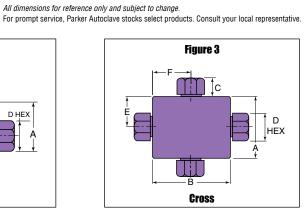
Connection Type	Gland	Collar	Plug	Connection Components (Industry Standard)
F250C F375C F562C	AGL()	ACL()	AP()	Parker Autoclave Engineer's high pressure fittings 1/4, 3/8 and 9/16 connection components to 60,000 psi (4137 bar). For use with 30VM, 40VM, 60VM valves and fittings.
F1000C43	CGLX160	CCLX160	43CP160	Parker Autoclave Engineer's high pressure 1" connection components to 43,000 psi (2965 bar) for use with 30SC, 43Y valves, and fittings.
F312C150	CGL50	CCL50	CP50	Parker Autoclave Engineer's ultra high pressure 5/16 connection components to 150,000 psi (10342 bar) for use with 100VM and 150V valve and fittings.
13120130	100CGL40 100CGL60	100CCL40 100CCL60	100CP40 100CP60	Parker Autoclave Engineer's 100,000 psi (6895 bar) connection components utilize our 5/16" connection for 1/4" and 3/8" tubing. (See Note*)

Catalog	Connection	Outside	Pressure	Minimum		Γ	Dimensio	ons - incl	hes (mm	I)		Block	Fitting
Number	Туре	Diameter Tube	Rating psi (bar)*	Opening	A	В	C	D Typical	E	F	G Thickness	Thickness	Pattern
lbow													
CL4400	F250C	1/4 (6.35)	60,000 (4136.79)	0.094 (2.39)	1.00 (25.40)	1.50 (38.10)	0.50 (12.70)	0.63 (15.88)	0.62 (15.75)	0.88 (22.35)		0.75 (19.05)	
100CL4400	F312C150	1/4 (6.35)	100,000 (6894.65)	0.094 (2.39)	2.12 (53.85)	3.00 (76.20)	0.52 (13.21)	0.75 (19.05)	1.50 (38.10)	1.50 (38.10)		1.38 (35.05)	
CL5500	F312C150	5/16 (7.94)	150,000 (10341.97)	0.094 (2.39)	2.12 (53.85)	3.00 (76.20)	0.52 (13.21)	0.75 (19.05)	1.50 (38.10)	1.50 (38.10)		1.38 (35.05)	
CL6600	F375C	3/8 (9.53)	60,000 (4136.79)	0.125 (3.18)	1.50 (38.10)	2.00 (50.80)	0.52 (13.21)	0.81	1.00 (25.40)	1.25 (31.75)		1.00 (25.40)	See
100CL6600	F312C150	3/8 (9.53)	100,000 (6894.65)	0.094 (2.39)	2.12 (53.85)	3.00 (76.20)	0.52 (13.21)	0.75 (19.05)	1.50 (38.10)	1.50 (38.10)		1.38 (35.05)	Figure 1
CL9900	F562C	9/16 (14.29)	60,000 (4136.79)	0.188 (4.78)	1.88 (47.75)	2.62 (66.55)	0.81 (20.57)	1.19 (30.23)	1.12 (28.45)	1.88 (47.75)		1.50 (38.10)	
40CL9900	F562C40	9/16 (14.29)	40,000 (2757.86)	0.250 (6.35)	1.88 (47.775)	2.62 (66.55)	0.81 (20.57)	1.19 (30.23)	1.12 (28.45)	1.88 (47.75)		1.50 (38.10)	
43CL16	F1000C43	1 (25.40)	43,000 (2964.70)	0.438 (11.13)	3.00 (76.20)	4.12 (104.65)	0.72 (18.29)	1.38 (35.05)	2.06 (52.32)	2.06 (52.32)		1.75 (44.45)	
'ee	L I				•			1		1			
CT4440	F250C	1/4 (6.35)	60,000 (4136.79)	0.094 (2.39)	1.25 (31.75)	2.00 (50.80)	0.50 (12.70)	0.63 (15.88)	0.88 (22.35)	1.00 (25.40)		1.00 (25.40)	
100CT4440	F312C150	1/4 (6.35)	100,000 (6894.65)	0.094 (2.39)	2.12 (53.85)	3.00 (76.20)	0.52 (13.21)	0.75 (19.05)	1.50 (38.10)	1.50 (38.10)		1.38 (35.05)	
CT5550	F312C150	5/16 (7.94)	150,000 (10341.97)	0.094 (2.39)	2.12 (53.85)	3.00 (76.20)	0.52 (13.21)	0.75 (19.05)	1.50 (38.10)	1.50 (38.10)		1.38 (35.05)	
CT6660	F375C	3/8 (9.53)	60,000 (4136.79)	0.125 (3.18)	1.56 (39.62)	2.00 (50.80)	0.52 (13.21)	0.81 (20.62)	1.06 (26.92)	1.00 (25.40)		1.00 (25.40)	See
100CT6660	F312C150	3/8 (9.53)	100,000 (6894.65)	0.094 (2.39)	2.12 (53.85)	3.00 (76.20)	0.52 (13.21)	0.75 (19.05)	1.50 (38.10)	1.50 (38.10)		1.38 (35.05)	Figure 2
СТ9990	F562C	9/16 (14.29)	60,000 (4136.79)	0.188 (4.78)	2.12 (53.85)	2.62 (66.55)	0.81 (20.57)	1.19 (30.23)	1.38 (35.05)	1.31 (33.27)		1.50 (38.10)	
40CT9990	F562C40	9/16 (14.29)	40,000 (2757.86)	0.250 (6.35)	2.12 (53.85)	2.62 (66.55)	0.81 (20.57)	1.19 (30.23)	1.38 (35.05)	1.31 (33.27)		1.50 (38.10)	
43CT16	F1000C43	(25.40)	43,000 (2964.70)	0.438	3.00 (76.20)	4.12 (104.65)	0.72 (18.29)	1.38 (35.05)	2.06 (52.32)	2.06 (52.32)		1.75 (44.45)	
ross						. ,				,			
CX4444	F250C	1/4 (6.35)	60,000 (4136.79)	0.094 (2.39)	1.25 (31.75)	2.00 (50.80)	0.50 (12.70)	0.63 (15.88)	0.62 (15.75)	1.00 (25.40)		1.00 (25.40)	
100CX4444	F312C150	1/4 (6.35)	100,000 (6894.65)	0.094 (2.39)	3.00 (76.20)	3.00 (76.20)	0.52 (13.21)	0.75 (19.05)	1.50 (38.10)	1.50 (38.10)		1.38 (35.05)	
CX5555	F312C150	5/16 (7.94)	150,000 (10341.97)	0.094 (2.39)	3.00 (76.20)	3.00 (76.20)	0.52 (13.21)	0.75 (19.05)	1.50 (38.10)	1.50 (38.10)		1.38 (35.05)	
CX6666	F375C	3/8 (9.53)	60,000 (4136.79)	0.125 (3.18)	2.12 (53.85)	2.00 (50.80)	0.52 (13.21)	0.81 (20.62)	1.06 (26.92)	1.00 (25.40)		1.00 (25.40)	See
100CX6666	F312C150	3/8 (9.53)	100,000 (6894.65)	0.094 (2.39)	2.12 (76.20)	3.00 (76.20)	0.52 (13.21)	0.75 (19.05)	1.50 (38.10)	1.50 (38.10)		1.38 (35.05)	Figure 3
CX9999	F562C	9/16 (14.29)	60,000 (4136.79)	0.188 (4.78)	2.75 (69.85)	2.62 (66.55)	0.81	1.19 (30.23)	1.38 (35.05)	1.31 (33.27)		1.50 (38.10)	
40CX9999	F562C40	9/16 (14.29)	40,000 (2757.86)	0.250 (6.35)	2.75 (69.85)	2.62 (66.55)	0.81 (20.57)	1.19 (30.23)	1.38 (35.05)	1.31 (33.27)		1.50 (38.10)	
43CX16	F1000C43	1 (25.40)	43,000 (2964.70)	0.438	4.12	4.12 (104.65)	0.72 (18.29)	1.38 (35.05)	2.06 (52.32)	2.06 (52.32)		1.75 (44.45)	

*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.







Note: Fittings such as 45° elbows, reducer elbows, and reducer 45° elbows are available upon request. For mounting hole option add suffix PM to catalog number, consult factory for mounting hole dimensions. Contact your local sales representative for additional information.

All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

Catalog	Connection	Outside Diameter Tube	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm)							Block	Fitting
Number					А	В	С	D Typical	E	F Hex	G Thickness	Thickness	, v

Straight Coupling/Union Coupling

60F4433	F250C	1/4	60,000	0.094	0.75	1.38	0.50	0.63	Straight	
60UF4433		(6.35)	(4136.79)	(2.39)	(19.05)	(35.05)	(12.70)	(15.88)	Union	
100F4433	F312C150	1/4	100,000	0.094	1.12	2.62	0.52	0.75	Straight	
100UF4433		(7.94)	(10341.97)	(2.39)	(28.45)	(66.55)	(13.21)	(19.05)	Union	
150F5533	F312C150	5/16	150,000	0.094	1.12	2.62	0.52	0.75	Straight	
150UF5533		(7.94)	(10341.97)	(2.39)	(28.45)	(66.55)	(13.21)	(19.05)	Union	
60F6633	F375C	3/8	60,000	0.125	1.00	1.75	0.53	0.81	Straight	
60UF6633		(9.53)	(4136.79)	(3.18)	(25.40)	(44.45)	(13.46)	(20.62)	Union	See
100F6633	F312C150	3/8	100,000	0.094	1.12	2.62	0.52	0.75	Straight	Figure 4
100UF6633		(9.53)	(6894.65)	(2.39)	(28.45)	(66.55)	(13.21)	(19.05)	Union	
60F9933	F562C	9/16	60,000	0.188	1.38	2.19	0.81	1.19	Straight	
60UF9933		(14.29)	(4136.79)	(4.78)	(35.05)	(55.63)	(20.57)	(30.15)	Union	
40F9933	F562C40	9/16	40,000	0.250	1.38	2.19	0.81	1.19	Straight	
40UF9933		(14.29)	(2757.86)	(6.35)	(35.05)	(55.63)	(20.57)	(30.15)	Union	
43F16	F1000C43	1	43,000	0.438	1.75	3.50	0.72	1.38	Straight	
43UF16		(25.40)	(2964.70)	(11.13)	(44.45)	(88.90)	(18.29)	(35.05)	Union	

Bulkhead Coupling

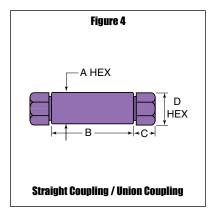
60BF4433	F250C	1/4	60,000	0.094	0.94	1.88	0.50	0.63	0.50	1.00	0.38	
		(6.35)	(4136.79)	(2.39)	(23.88)	(47.75)	(12.70)	(15.88)	(12.70)	(25.40)	(9.65)	
100BF4433	F312C150	1/4	100,000	0.094	2.12	3.25	0.52	0.75	1.38	2.00	0.38	
		(6.35)	(6894.65)	(2.39)	(53.85)	(82.55)	(13.21)	(19.05)	(35.05)	(50.80)	(9.65)	
150BF5533	F312C150	5/16	150,000	0.094	2.12	3.25	0.52	0.75	1.38	2.00	0.38	
		(7.94)	(10341.97)	(2.39)	(53.85)	(82.55)	(13.21)	(19.05)	(35.05)	(50.80)	(9.65)	
60BF6633	F375C	3/8	60,000	0.125	1.12	2.38	0.53	0.81	0.78	1.38	0.38	_
		(9.53)	(4136.79)	(3.18)	(28.45)	(60.45)	(13.46)	(20.62)	(19.81)	(35.05)	(9.65)	See
100BF6633	F312C150	3/8	100,000	0.094	2.12	3.25	0.52	0.75	1.38	2.00	0.38	Figure 5
		(9.53)	(6894.65)	(2.39)	(53.85)	(82.55)	(13.21)	(19.05)	(35.05)	(50.80)	(9.65)	
60BF9933	F562C	9/16	60,000	0.188	1.69	2.75	0.81	1.19	1.00	1.88	0.38	
		(14.29)	(4136.79)	(4.78)	(42.93)	(69.85)	(20.57)	(30.23)	(25.40)	(47.75)	(9.65)	
40BF9933	F562C40	9/16	40,000	0.250	1.69	2.75	0.81	1.19	1.00	1.88	0.38	
		(14.29)	(2757.86)	(6.35)	(42.93)	(69.85)	(20.57)	(30.23)	(25.40)	(47.75)	(9.65)	
43BF16	F1000C43	1	43,000	0.438	1.94	3.50	0.72	1.38	1.50	2.13	0.50	
		(25.40)	(2964.70)	(11.13)	(49.28)	(88.90)	(18.29)	(35.05)	(38.10)	(54.10)	(12.70)	

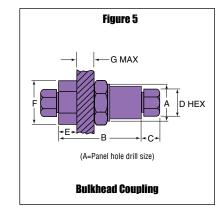
*Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.





Union Couplings are designed with a removable seat insert allowing disassembly and tubing removal without the necessity of loosening other items in a line.

High Pressure Tubing

Pressures to 150,000 psi (10342 bar)

Parker Autoclave Engineers offers a complete selection of austenetic, cold drawn stainless steel tubing designed to match the performance standards of Parker Autoclave valves and fittings. Parker Autoclave high pressure tubing is manufactured specifically for high pressure applications requiring both strength and corrosion resistance. The tubing is furnished in random lengths between 20 feet (6 meters) and 26.5 feet (8.0 meters). The average is 24 feet (7.3 meters). High pressure tubing is available in five sizes and a variety of materials. Special longer lengths are available. Consult factory.



Inspection and Testing

Parker Autoclave Engineer's high pressure tubing is inspected to assure freedom from seams, laps, fissures or other flaws, as well as carburization or intergranular carbide precipitation. The outside and inside diameters of the tubing are controlled within close tolerences. Sample pieces of tubing for each lot are tested to confirm mechanical properties. Hydrostatic testing is also performed on a statistical basis and is conducted at the working pressure of the tube. Parker Autoclave will perform 100% hydrostatic testing at additional cost if desired.

Special Materials

In addition to the type 316/316L and 304/304L stainless steel tubing listed in this section, Parker Autoclave has limited stock of hard-to-obtain shorter lengths of the following tubing materials in some sizes:

Monel 400*, Inconel 600*, Inconel 625*, Duplex, Super Duplex, Titanium Grade 2*, Nickel 200*, Hastelloy C276* (*Trademark names) Some are available in shorter lengths only. Please consult factory for stock availability.

Tubing Tolerance

Nominal Tubing Size inches (mm) 1/4 (6.35)

5/16 (7.94) 3/8 (9.53) 9/16 (14.29) 1 (25.40) Tolerance/Outside Diameter inches (mm)

.248/.243 (6.30/6.17) .310/.306 (7.87/7.77) .370/.365 (9.40/9.27) .557/.552 (14.15/14.02) .995/.990 (25.27/25.14)

Catalog	Tube	Fits	Tube Size Inches (mm)			Flow	Working Pressure psi (bar)*						
Number	Material	Connection Type	Outside Diameter	Inside Diameter	Wall Thickness	Area in.² (mm²)	-423 to 100°F -252 to 37.8°C	200°F 93°C	400°F 204°C	600°F 316°C	800°F 427°C		
MS15-202	Stainless	(See note 3)					100,000 (6894.64)	100,000 (6894.64)	96,210 (6633.24)	90,368 (6230.55)	84,420 (5820.46)		
MS15-081	316SS	F250C	1/4 (6.35)	0.083 (2.11)	0.083 (2.11)	0.005 (3.23)	60,000 (4136.79)	60,000 (4136.79)	57,750 (3981.66)	54,250 (3740.35)	50,700 (3495.59)		
MS15-182	304SS		(0.00)	()	()	(0.20)	60,000 (4136.79)	56,800 (3916.16)	51,650 (3561.09)	50,700 (3495.59)	48,450 (3340.46)		
MS15-082	316SS	F312C150	5/16 (7.94)	0.062 (1.57)	0.125 (3.18)	0.003 (1.94)	150,000 (10341.97)	150,000 (10341.97)	144,400 (9955.87)	136,350 (9400.85)	126,750 (8738.97)		
MS15-201	Stainless	(See note 3)					100,000 (6894.64)	100,000 (6894.64)	96,210 (6633.24)	90,368 (6230.55)	84,420 (5820.46)		
MS15-087	316SS	F375C	3/8 (9.53)	0.125 (3.18)	0.125 (3.18)	0.012 (7.74)	60,000 (4136.79)	60,000 (4136.79)	57,750 (3981.66)	54,250 (3740.35)	50,700 (3495.59)		
MS15-183	304SS	-	(3.33)	(3.10)	(0.10)	(1.14)	60,000 (4136.79)	56,800 (3916.16)	51,650 (3561.09)	50,700 (3495.59)	48,450 (3340.46)		
MS15-210	Stainless						100,000 (6894.64)	100,000 (6894.64)	96,210 (6633.24)	90,368 (6230.55)	84,420 (5820.46)		
MS15-083	316SS	F562C	9/16 (14.29)	0.188 (4.78)	0.187 (4.75)	0.028 (18.06)	60,000 (4136.79)	60,000 (4136.79)	57,750 (3981.66)	54,250 (3740.35)	50,700 (3495.59)		
MS15-185	304SS		(14.25)	(4.70)	(4.75)	(10.00)	60,000 (4136.79)	56,800 (3916.16)	51,650 (3561.09)	50,700 (3495.59)	48,450 (3340.46)		
MS15-090	316SS	F562C40	9/16 (14.29)	0.250 (6.35)	0.156 (3.96)	0.048 (30.97)	40,000 (2757.86)	40,000 (2757.86)	38,500 (2654.44)	36,100 (2488.96)	33,800 (2330.39)		
MS15-209	Stainless	F562C40-312	9/16 (14.29)	0.312 (7.92)	0.125	0.076 (49.03)	40,000 (2757.86)	40,000 (2757.86)	38,500 (2654.44)	36,100 (2488.97)	33,800 (2330.39)		
MS15-211	316SS	F1000C43	1 (25.40)	0.438 (11.13)	0.281 (7.14)	0.151 (97.42)	43,000 (2964.70)	43,000 (2964.70)	43,000 (2964.70)	41,380 (2853.01)	36,330 (2504.83)		

Note:

 Autofrettaged tubing available (see technical Information section: Pressure Cycling for Autofrettage information) *Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

 For HighPressure, High Cycle (HPHC) tubing, MS15-201, MS15-202, MS15-209, and MS15-210 are available. (See Technical Information section: Pressure Cycling for additional information)

3. For 100,000 psi rating use F312C150 connection

All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

High Pressure Coned-and-Threaded Nipples

Pressures to 150,000 psi (10342 bar)

For rapid system make-up, Parker Autoclave Engineers supplies pre-cut, coned-and-threaded nipples in various sizes and lengths for Parker Autoclave high pressure valves and fittings.

Special lengths

In addition to the standard lengths listed in the table below, nipples are available in any custom length. Consult factory.

Materials**

Catalog numbers in table refer to Type 316 Stainless steel. *Note: Most items available in 304SS. Consult factory for availability.*



Material in table is 316 Stainless steel

		Nip	Catalog Numbe ople Length In (r				Fits	Tube Siz (m	Working* Pressure	
2.75" (69.85)	3.00" (76.20)	4.00" (101.60)	6.00" (152.40)	8.00" (203.20)	10.00" (254.00)	12.00" (304.80)	Connection Type	0.D.	I.D.	at 100°F (37.8°C) psi (bar)
CN4402-316	CN4403-316	CN4404-316	CN4406-316	CN4408-316	CN44010-316	CN44012-316	F250C	1/4 (6.35)	0.083 (2.11)	60,000 (4136.79)
		CN5504-316	CN5506-316	CN5508-316	CN55010-316	CN55012-316	F312C150	5/16 (7.94)	0.062 (1.57)	150,000 (10341.97)
	CN6603-316	CN6604-316	CN6606-316	CN6608-316	CN66010-316	CN66012-316	F375C	3/8 (9.53)	0.125 (3.18)	60,000 (4136.79)
		CN9904-316	CN9906-316	CN9908-316	CN99010-316	CN99012-316	F562C	9/16 (14.29)	0.188 (4.78)	60,000 (4136.79)
		40CN9904-316	40CN9906-316	40CN9908-316	40CN99010-316	40CN99012-316	F562C40	9/16 (14.29)	0.250 (6.35)	40,000 (2757.86)
			43CN1606-316	43CN1608-316	43CN16010-316	43CN16012-316	F1000C43	1 (25.40)	0.438 (12.40)	43,000 (2964.70)

Note:

See High pressure tubing section for pressure ratings at various temperatures.

*Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower

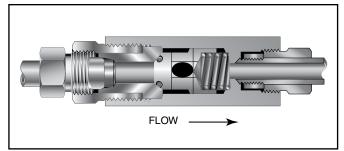
All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

High Pressure Check Valves

Pressures to 60.000 psi (4137 bar)

O-Ring Check Valves

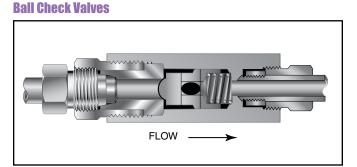


Minimum operating temperature for standard o-ring check valves 0°F (-17.8°C).

Provides unidirectional flow and tight shut-off for liquids and gas with high reliability. When differential drops below cracking pressure*, valve shuts off. (Not for use as relief valve.)

Materials: 316 Stainless Steel: body, cover, poppet, cover gland. 300 Series Stainless Steel: spring. Standard O-ring: Viton, for operation to 400° F (204°C). Buna-N or PTFE available for 250°F (121°C) or 400°F (204°C) respectively; specify when ordering.

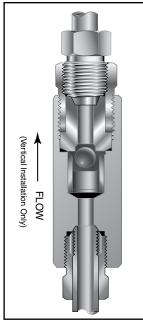
*Cracking Pressure: 20 psi (1.38 bar) ±30%. Springs for higher cracking pressures (up to 100 psi (6.89 bar) available on special order for O-ring style check valves only.



Minimum operating temperature for standard ball check valves -110°F (-79°C).

For low temperature option to -423°F (-252°C) add suffix LT (Low temperature spring).

Ball Type Excess Flow Valves



Prevents reverse flow where leak-tight shut-off is not mandatory. When differential drops below cracking pressure, valve closes. With all-metal components, valve can be used up to 1200°F (649°C). See Technical Information section for connection temperature limitations. (Not for use as a relief valve.)

Ball and poppet are an integral design to assure positive, inline seating without "chatter". Poppet is designed essentially for axial flow with minimum pressure drop.

Materials: 316 Stainless Steel: body, cover, ball poppet, cover gland. 300 Series Stainless Steel: spring.

Protects pressure gauges and pressure instrumentation from surges in flow or sudden venting in the event of line failure.

Materials: 316 Stainless Steel: body, cover, sleeve, cover gland. 300 Series Stainless Steel: ball.

Vertical Installation: Since this type of check valve employs a non-spring loaded ball, valve MUST be installed in VERTICAL position with arrow on valve body pointing UP. (cover gland up).

Resetting Valve: Equalize the pressure across the ball. The ball will drop and reset automatically.

CAUTION: While testing has shown O-Rings to provide satisfactory service life, both cyclic and shelf life may vary widely with differing service conditions, properties of reactants, pressure and temperature cycling and age of the O-ring. FREQUENT INSPECTIONS SHOULD BE MADE to detect any deterioration, and O-rings replaced as required.

NOTE: For optional material see Needle Valve Options section.

For low temperature option to -423°F (-252°C) add suffix LTTO (Low temperature spring & PTFE o-ring).

High Pressure Check Valves

Catalog	Fits Pressure	Orifice Rated	Dimensions - inches (mm)						
Number	Connection Type	Rating psi (bar)*	(mm)	C _V	А	В	С	D Typical	Hex

O-Ring Check Valves

CK04400	F250C	60,000	0.094	0.15	3.38	2.50	0.50	0.63	1.18
		(4136.79)	(2.39)		(85.85)	(63.50)	(12.70)	(16.00)	(29.97)
CK06600	F375C	60,000	0.125	0.28	3.75	2.62	0.53	0.75	1.18
		(4136.79)	(3.18)		(95.25)	(66.55)	(13.46)	(19.05)	(29.97)
CK09900	F562C	60,000	0.187	0.63	4.62	3.38	0.81	1.12	1.50
		(4136.79)	(4.75)		(117.35)	(85.85)	(20.57)	(28.45)	(38.10)
40CK09900	F562C40	40,000	0.250	0.78	4.64	3.38	0.72	1.19	1.50
		(2757.85)	(6.35)		(117.86)	(85.73)	(18.29)	(30.23)	(38.10)
43CK016	F1000C43	43,000	0.438	4.3	6.54	5.63	.72	1.38	1.88 [†]
		(2964.70)	(11.13)		(166.11)	(143.00)	(18.29)	(35.05)	(47.76)

Ball Check Valves

CB4401	F250C	60,000	0.094	0.15	3.38	2.50	0.50	0.63	1.18
		(4136.79)	(2.39)		(85.85)	(63.50)	(12.70)	(16.00)	(29.97)
100CB4401+	F312C150	100,000	0.0094	0.11	4.61	3.50	0.52	1.75 [†]	.75
		(6894.65)	(2.39)		(117.09)	(88.9)	(13.21)	(44.50)	(19.05)
100CB5501+	F312C150	100,000	0.0094	0.11	4.61	3.50	.52	1.75 [†]	.75
		(6894.65)	(2.39)		(117.09)	(88.9)	(13.21)	(44.50)	(19.05)
CB6601	F375C	60,000	0.125	0.28	3.75	2.62	0.53	0.75	1.18
		(4136.79)	(3.18)		(95.25)	(66.55)	(13.46)	(19.05)	(29.97)
100CB6601+	F312C150	100,000	0.0094	0.11	4.61	3.50	.52	1.75†	.75
		(6894.65)	(2.39)		(117.09)	(88.9)	(13.21)	(44.50)	(19.05)
CB9901	F562C	60,000	0.187	0.63	4.62	3.38	0.81	1.12	1.50
		(4136.79)	(4.75)		(117.35)	(85.85)	(20.57)	(28.45)	(38.10)
43CB16	F1000C43	43,000	0.438	4.3	6.54	5.63	.72	1.38	1.88 [†]
		(2964.70)	(11.13)		(166.11)	(143.00)	(18.29)	(35.05)	(47.76)

*Body material is 15-5PH

Ball Type Excess Flow Valves

CK4402	F250C	60,000	0.094	3.38	2.50	0.50	0.63	1.18
		(4136.79)	(2.39)	(85.85)	(63.50)	(12.70)	(16.00)	(29.97)
CK6602	F375C	60,000	0.125	3.75	2.62	0.53	0.75	1.18
		(4136.79)	(3.18)	(95.25)	(66.55)	(13.46)	(19.05)	(29.97)
CK9902	F562C	60,000	0.187	4.62	3.38	0.81	1.12	1.50
		(4136.79)	(4.75)	(117.35)	(85.85)	(20.57)	(28.45)	(38.10)

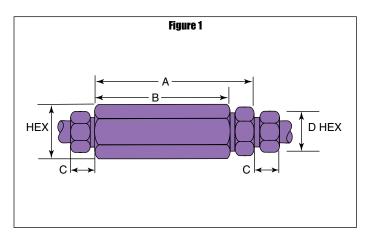
*Maximum pressure rating is based on the lowest rating of any component.

[†] Distance across flats

Actual working pressure may be determined by tubing pressure rating, if lower.

All dimensions for reference only and subject to change.

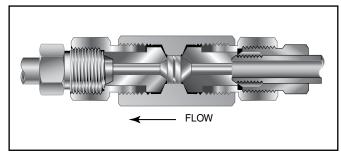
For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.



High Pressure Line Filters

Pressures to 60,000 psi (4137 bar)

Dual-Disc Line Filters

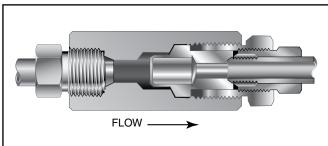


Parker Autoclave Engineers Dual-Disc Line Filters are utilized in numerous industrial, chemical processing, aerospace, nuclear and other applications. With the dual-disc design, large contaminant particles are trapped by the upstream filter element before they can reach and clog the smaller micron-size downstream element. Filter elements can be easily replaced.

Materials: 316 Stainless Steel: body, cover, cover gland. 300 Series Stainless Steel: filter elements.

Filter Elements: Downstream/upstream micron size 35/65 is standard. 5/10 or 10/35 also available when specified. Other element combinations available on special order.

Cup-Type Line Filters



Parker Autoclave Engineers High Flow Cup-Type Line Filters are recommended in high pressure systems requiring both high flow rates and maximum filter surface area. Widely used in the industrial and chemical processing fields, the cup design offers as much as six times the effective filter area as compared to disc-type units. In addition, the filter elements can be quickly and easily replaced.

Materials: 316 Stainless Steel: body, cover, cover gland. 300 Series Stainless Steel: filter element.

Filter Elements: 300 Series Stainless Steel sintered cup. Standard elements available in choice of 5, 35 or 65 micron sizes. *NOTE: Filter ratings are nominal.*

NOTE 1: All filters furnished complete with connection components unless specified without. All dimensions for reference only and subject to change.

NOTE 2: Parker Autoclave Engineers disc and cup type filters are designed to filter small amounts of process particles. It is recommended that all fluids are thoroughly cleaned prior to entering the higher pressure system.

For optional materials, see Needle Valve Options section

NOTE 3: Special material filters may be supplied with four flats in place of standard hex.

NOTE 4: Pressure differential not to exceed 1,000 psi (69 bar) in a flowing condition.

NOTE 5: Larger micron size filter element is installed on the upstream (inlet) side.

Catalog	Pressure	Orifice	Micron	Connection	Effective Filter Element	Dimensions - inches (mm)					
Number	Rating psi (bar)*	inches (mm)	Size**	Size and Type	Area in. ² (mm ²)	А	В	С	D Typical	Hex	

Dual-Disc Line Filters

CLF4400	60,000	0.094	35/65		0.07	4.75	3.00	0.50	.63	1.12
CLF4400-5/10	(4136.79)	(2.39)	5/10	F250C	(45.16)	(20.65)	(76.20)	(12.70)	(16.00)	(28.45)
CLF4400-10/35			10/35							
CLF6600	60,000	0.125	35/65		0.07	5.12	3.00	0.53	.75	1.12
CLF6600-5/10	(4136.79)	(3.18)	5/10	F375C	(45.16)	(130.16)	(76.20)	(13.46)	(19.05)	(28.45)
CLF6600-10/35			10/35							
CLF9900	60,000	0.187	35/65		0.15	5.81	3.38	0.81	1.12	1.38
CLF9900-5/10	(4136.79)	(4.75)	5/10	F562C	(96.77)	(147.57)	(85.85)	(20.58)	(28.45)	(35.05)
CLF9900-10/35			10/35							

Cup-Type Line Filters

CF4-5	60,000	0.094	5		1.29	4.19	3.38	0.50	.63	1.38
CF4-35	(4136.79)	(2.39)	35	F250C	(832.26)	(106.42)	(85.85)	(12.70)	(16.00)	(35.05)
CF4-65			65							
CF6-5	60,000	0.125	5		1.29	4.62	3.62	0.53	.75	1.38
CF6-35	(4136.79)	(3.18)	35	F375C	(832.26)	(117.35)	(91.94)	(13.46)	(19.05)	(35.05
CF6-65			65							
CF9-5	60,000	0.187	5		1.29	5.25	4.06	0.81	1.12	1.50
CF9-35	(4136.79)	(4.75)	35	F562C	(832.26)	(133.35)	(103.12)	(20.58)	(28.45)	(38.10)
CF9-65			65							

Note:

** Other micron sizes available on special order. Change last digits of the catalog number accordingly. For optional materials, see Needle Valve Options section.

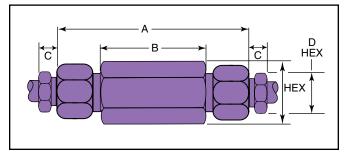
*Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower.

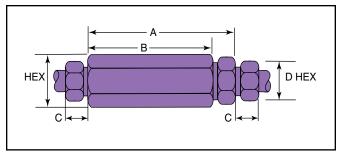
All dimensions for reference only and subject to change.

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Dual-Disc Line Filters



Cup-Type Line Filters



High Anti-Vibration Collet Gland Assembly

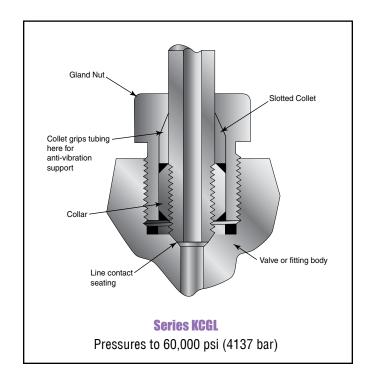
Pressures to 150,000 psi (10342 bar)

Series KCGL Sizes to 9/16" (14.29 mm)

For extreme conditions of vibration and/or shock in tubing systems, such as locating valve or fitting on an unsupported line near a compressor, Parker Autoclave Engineers coned-and-threaded connections are offered with the Anti-Vibration Collet Gland Assemblies. Completely interchangeable with standard Parker Autoclave Engineers high pressure connections, the Collet Gland Assemblies provide equally effective pressure handling capability.

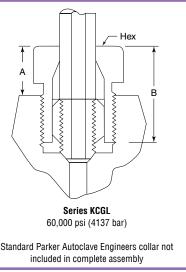
In standard connection systems, the bending stresses on the threaded area of the tubing imposed by excessive vibration or movement may cause premature fatigue failure of the tubing at the back of the thread. By moving the stress concentration back to the unthreaded part of the tubing and providing a wedge-type gripping action, the Parker Autoclave Engineers anti-vibration collet gland assembly strengthens the entire structure. With stress concentration reduced and overall stress level maintained well below the endurance limit of the material, the result is virtually unlimited vibrational fatigue life.

A less complex and more economical design than other vibration-resistant connections, the Collet Gland Assembly utilizes the same coned-and-threaded features of Parker Autoclave Engineers high pressure connections. In Series KCGL the gland nut is recessed to accommodate a tapered, slotted collet that grips the tubing at a point behind the threaded area of the tubing. The design provides a slight difference in angles between the collet and the corresponding taper of the gland nut. As the nut is tightened, it acts to wedge the tapered end of the collet into a gripping engagement with the tubing and, at the same time, forces the collar and tubing assembly into line contact with the connection seat.



- Note: 1) To order components with anti-vibration assemblies add -K to catalog numbers.
 - 2) Special material assemblies may be supplied with four flats in place of standard hex.

Catalog		Outside Diameter	Dime	nsions - inches	(mm)
Number	Part	Tubing Size in. (mm)	A	В	Hex
KCGL40-316	Complete assembly				
KCL40-316	Slotted collet	1/4	0.50	0.81	0.62
KGL40-316	Gland nut	(6.35)	(12.70)	(20.58)	(15.75)
KCGL60-316	Complete assembly				
KCL60-316	Slotted collet	3/8	0.62	1.12	0.81
KGL60-316	Gland nut	(9.53)	(15.75)	(28.45)	(20.58)
KCGL90-316	Complete assembly				
KCL90-316	Slotted collet	9/16	1.00	1.50	1.19
KGL90-316	Gland nut	(14.29)	(25.40)	(38.10)	(30.23)



All dimensions for reference only and subject to change.

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Series KCBGLX - Sizes to 1" (25.40)

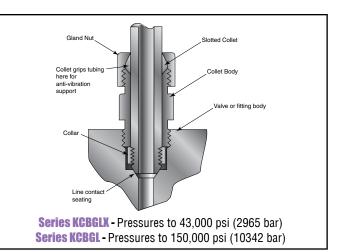
Series KCBGL - Sizes to 1/4" (6.35), 5/16" (7.94), 3/8" (9.53)

For extreme conditions of vibration and/or shock in tubing systems, such as locating a valve or fitting on an unsupported line near a compressor, Autoclave coned-andthreaded connections are offered with the Anti-Vibration Collet Gland Assemblies. A less complex and more economical design than other vibration-resistant connections, the collet gland assembly utilizes the same coned-and-threaded features of Autoclave high pressure connections.

Series KCBGLX and KCBGL extends the gland nut to provide room for the tapered, slotted collet and collet nut. The design provides a slight difference in angles between the collet and the corresponding taper of the gland nut. As the nut is tightened, it acts to wedge the tapered end of the collet into a gripping engagement with the tubing.

Materials

Type 316 stainless steel with bonded dry film (316MC) moly lubricant.



Note: 1) To order components with anti-vibration assemblies add -K to catalog numbers.

2) Special material assemblies may be supplied with four flats in place of standard hex.

Catalog	Part	Outside Diameter	Dim	ensions - inches (mm)	
Number	Part	Tubing Size in. (mm)	A	В	Hex	Hex
KCBGLX160-316MC	Complete assembly					
KCBLX160-316MC	Collet body	1.0	1.69	2.38	1.50	
KCCLX160-316MC	Slotted collet	(25.40)	(25.40)	(60.45)	(38.10)	
KGLX160-316MC	Gland nut					
KCBGL40-316MC [†]	Complete assembly					
KCBL40-316MC	Collet body	.250	1.38	1.88	.75	↓ └┐││ ││┌┘ │
KCCLX40-316MC	Slotted collet	(6.35)	(34.92)	(47.62)	(19.05)	
KGL40-316MC	Gland nut					
KCBGL50-316MC [†]	Complete assembly					
KCBL50-316MC	Collet body	.312	1.38	1.88	.75	
KCCL50-316MC	Slotted collet	(7.94)	(34.92)	(47.62)	(19.05)	
KGL50-316MC	Gland nut					
KCBGL60-316MC [†]	Complete assembly					Series KCBGLX - 43,000 psi (2965 bar)
KCBL60-316MC	Collet body	.375	1.38	1.88	.75	Series KCBGL - 150,000 psi (10342 bar)
KCCLX60-316MC	Slotted collet	(9.53)	(34.92)	(47.62)	(19.05)	Standard Autoclave Engineers collar not
KGL60-316MC	Gland nut					included in complete assembly

All dimensions for reference only and subject to change.

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WARNING

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expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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Parker Hannifin Manufacturing Ltd. Instrumentation Products Division, Europe Industrial Estate Whitemill Wexford, Republic of Ireland PH: 353 53 914 1566 FAX: 353 53 914 1582 **Caution!** Do not mix or interchange parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

Caution! Parker Autoclave Engineers Valves, Fittings and Tools are not designed to work with common commercial instrument tubing and will only work with tubing built to Parker Autoclave Engineers AES Specifications. Failure to do so will void warranty.

ISO-9001 Certified

[†]KCBGL anti-vibes are for 100,000 and 150,000 psi components.

Fitings, Tubing & Nipples

P Series Pipe Fittings

Pressures to 15,000 psi (1034 bar)

Since 1945 Parker Autoclave Engineers has designed and built premium quality valves, fittings and tubing. This commitment to engineering and manufacturing excellence has earned Parker Autoclave Engineers a reputation for reliable, efficient product performance. Parker Autoclave Engineers has long been established as the world leader in high pressure fluid handling components for the chemical/petrochemical, research and oil and gas industries.



Pipe Fittings, Tubing and Nipples Features:

- Available sizes are 1/4", 3/8", 1/2", 3/4" and 1"
- Fittings and tubing manufactured from cold worked 316 stainless steel.
- Operating Temperatures from -423°F (-252°C) to 400°F (204°C).





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Pipe Fittings

Pressures to 15,000 psi (1034 bar)

Parker Autoclave Engineers pipe fittings, P Series, are designed for liquid and gas applications. Available from 1/4" to 1" NPT to 15,000 psi and temperatures to 400°F (204°C)



Catalog	atalog Connection	Pressure	Minimum	Dim	ensions ·	· inches ((mm)	Block	Fitting	
Number	Туре	Rating psi (bar)*	Opening	А	В	С	D	Thickness	Pattern	

Pipe Elbow

PL4400	1/4" NPT	15,000	0.42	1.13	1.50	0.75	0.75	0.75	
		(1034.20)	(10.67)	(28.58)	(38.10)	(19.05)	(19.05)	(19.05)	
PL6600	3/8" NPT	15,000	0.56	1.50	2.00	1.00	1.00	1.00	
		(1034.20)	(14.22)	(38.10)	(50.80)	(25.40)	(25.40)	(25.40)	
PL8800	1/2" NPT	15,000	0.69	1.88	3.00	1.25	1.50	1.25	See
		(1034.20)	(17.53)	(47.75)	(76.20)	(31.75)	(38.10)	(31.75)	Figure 1
PL12	3/4" NPT	10,000	0.89	2.18	3.00	1.50	1.50	1.38	
		(689.46)	(22.61)	(55.37)	(76.20)	(38.10)	(38.10)	(35.05)	
PL16	1" NPT	10,000	1.13	2.50	4.12	1.56	2.06	1.75	
		(689.46)	(28.58)	(63.50)	(104.65)	(39.67)	(52.37)	(44.45)	

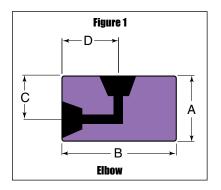
Pipe Tee

PT4440	1/4" NPT	15,000 (1034.20)	0.42 (10.67)	1.13 (28.58)	1.50 (38.10)	0.75 (19.05)	0.75 (19.05)	0.75 (19.05)	
PT6660	3/8" NPT	15,000 (1034.20)	0.56 (14.22)	1.50 (38.10)	2.00 (50.80)	1.00 (25.40)	1.00 (25.40)	1.00 (25.40)	
PT8880	1/2" NPT	15,000 (1034.20)	0.69 (17.53)	1.88 (47.75)	3.00 (76.20)	1.25 (31.75)	1.50 (38.10)	1.25 (31.75)	See Figure 2
PT12	3/4" NPT	10,000 (689.46)	0.89 (22.61)	2.18 (55.37)	3.00 (76.20)	1.50 (38.10)	1.50 (38.10)	1.38 (35.05)	
PT16	1" NPT	10,000 (689.46)	1.13 (28.58)	2.50 (63.50)	4.12 (104.65)	1.56 (39.67)	2.06 (52.37)	1.75 (44.45)	

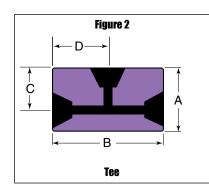
Pipe Cross

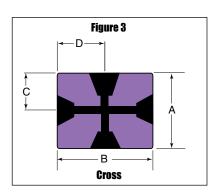
PX4444	1/4" NPT	15,000	0.42	1.50	1.50	0.75	0.75	0.75	
		(1034.20)	(10.67)	(38.10)	(38.10)	(19.05)	(19.05)	(19.05)	
PX6666	3/8" NPT	15,000	0.56	2.00	2.00	1.00	1.00	1.00	
		(1034.20)	(14.22)	(50.80)	(50.80)	(25.40)	(25.40)	(25.40)	
PX8888	1/2" NPT	15,000	0.69	2.50	3.00	1.25	1.50	1.25	See
		(1034.20)	(17.53)	(63.50)	(76.20)	(31.75)	(38.10)	(31.75)	Figure 3
PX12	3/4" NPT	10,000	0.89	3.00	3.00	1.50	1.50	1.38	
		(689.46)	(22.61)	(76.20)	(76.20)	(38.10)	(38.10)	(35.05)	
PX16	1" NPT	10,000	1.13	3.13	4.12	1.56	2.06	1.75	1
		(689.46)	(28.58)	(79.38)	(104.65)	(39.67)	(52.37)	(44.45)	

*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by pipe pressure rating, if lower. *All dimensions for reference only and subject to change.*



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ľ	Catalog	Connection	Pressure	Minimum	Dimension	s - in.(mm)	Fittina
	Number	Туре	Rating psi (bar)*	Opening	A	В	Pattern

Pipe Coupling

15F4488	1/4" NPT	15,000 (1034.20)	0.42 (10.67)	.075 (19.05)	1.50 (38.10)	
15F6688	3/8" NPT	15,000	0.56	1.00	1.63	
		(1034.20)	(14.22)	(25.40)	(41.28)	-
15F8888	1/2" NPT	15,000	0.69	1.19	2.00	See
		(1034.20)	(17.53)	(30.23)	(50.80)	Figure 4
10F121288	3/4" NPT	10,000	0.89	1.38	2.75	
		(689.46)	(22.61)	(30.06)	(69.90)	
10F161688	1" NPT	10,000	1.13	1.75	2.50	
		(689.46)	(28.58)	(44.50)	(63.50)	

Catalo	talog Connection Pressure		Minimum	Dim	ensions	- inches	(mm)	Е	Fittina
Numb		Rating psi (bar)*	Opening	А	В	C	D	Мах	Pattern

Pipe Bulkhead Coupling

15BF4488	1/4" NPT	15,000	0.42	0.94	2.00	1.00	0.63	0.38	
		(1034.20)	(10.67)	(23.80)	(50.80)	(25.40)	(15.75)	(9.53)	
15BF6688	3/8" NPT	15,000	0.56	1.13	2.38	1.38	0.79	0.38	1
		(1034.20)	(14.22)	(28.60)	(60.50)	(35.05)	(20.07)	(9.53)	
15BF8888	1/2" NPT	15,000	0.69	1.68	2.63	1.88	0.91	0.38	See
		(1034.20)	(17.53)	(42.67)	(66.80)	(47.80)	(23.11)	(9.53)	Figure 5
10BF121288	3/4" NPT	10,000	0.89	1.68	2.63	1.88	0.91	0.38	-
		(689.46)	(22.61)	(42.67)	(66.80)	(47.80)	(23.11)	(9.53)	
10BF161688	1" NPT	10,000	1.13	1.94	3.50	1.87+	1.50	0.38	
		(689.46)	(28.58)	(49.28)	(88.90)	(47.50)	(38.10)	(9.53)	

Catalog	Connection	Pressure	Dimensions	- in.(mm)	Fitting
Number		Rating psi (bar)*	A	В	Pattern

Pipe Plugs

PP40	1/4" NPT	15,000 (1034.20)	0.63 (16.00)	1.12 (28.45)	
PP60	3/8" NPT	15,000 (1034.20)	0.75 (19.05)	1.12 (28.45)	_
PP80	1/2" NPT	15,000 (1034.20)	1.00 (25.40)	1.50 (38.10)	See Figure 6
PP120	3/4" NPT	10,000 (689.46)	1.38 (35.05)	1.50 (38.10)	
PP160	1" NPT	10,000 (689.46)	1.38 (35.05)	1.88 (47.75)	

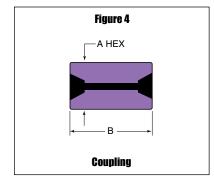
*Maximum pressure rating is based on the lowest rating of any component.

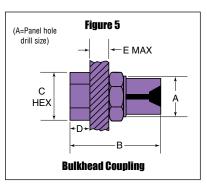
+ distance across flats

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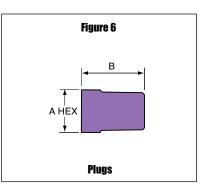




NOTE: NPT (Pipe) Connections:

- NPT threads must be sealed using a high quality PTFE tape and/or paste product. Refer to thread sealant manufacturer's instructions on how to apply thread sealant.
- Sealing performance may vary based on many factors such as pressure, temperature, media, thread quality, thread material, proper thread engagement and proper use of thread sealant.
- Customer should limit the number of times an NPT fitting is assembled and disassembled because thread deformation during assembly will result in deteriorating seal quality over time. When using only PTFE tape, consider using thread lubrication to prevent galling of mating parts.

NOTE: Special material components may be supplied with four flats in place of standard hex.



Pressures to 15,000 (1034 bar)

Catalog	Connection	Pressure	Minimum	Dim	Dimensions - inches (mm)		(mm)	Block	Fitting
Number	Туре	Rating psi (bar)*	Opening	А	В	С	D	Thickness	Pattern

Street Pipe Elbow

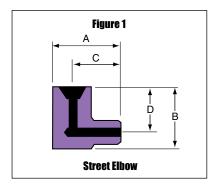
SPL4400	1/4" NPT	15,000	0.219	1.50	1.50	1.13	1.00	0.75	
		(1034.20)	(5.54)	(38.10)	(38.10)	(28.70)	(25.40)	(19.05)	
SPL6600	3/8" NPT	15,000	0.297	1.75	1.50	1.25	1.00	1.00	
		(1034.20)	(7.54)	(44.75)	(38.10)	(31.75)	(25.40)	(25.40)	
SPL8800	1/2" NPT	15,000	0.359	2.25	2.00	1.63	1.25	1.25	See
		(1034.20)	(9.12)	(57.15)	(50.80)	(41.40)	(31.75)	(31.75)	Figure 1
SPL12	3/4" NPT	10,000	0.609	2.50	2.62	1.75	1.31	1.50	-
		(689.46)	(14.47)	(63.50)	(66.55)	(44.45)	(33;27)	(38.10)	
SPL16	1" NPT	10,000	0.765	4.12	2.50	2.69	1.75	1.75	
		(689.46)	(19.43)	(104.65)	(63.50)	(68.33)	(44.45)	(44.45)	

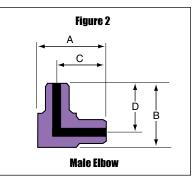
Male Pipe Elbow

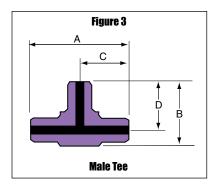
MPL4400	1/4" NPT	15,000	0.219	1.50	1.50	1.13	1.13	0.75	
		(1034.20)	(5.54)	(38.10)	(38.10)	(28.70)	(28.70)	(19.05)	
MPL6600	3/8" NPT	15,000	0.297	1.75	1.75	1.25	1.25	1.00	
		(1034.20)	(7.54)	(44.45)	(44.45)	(31.75)	(31.75)	(25.40)	
MPL8800	1/2" NPT	15,000	0.359	2.00	2.00	1.50	1.50	1.00	See
		(1034.20)	(9.12)	(50.80)	(50.80)	(38.10)	(38.10)	(25.40)	Figure 2
MPL12	3/4" NPT	10,000	0.609	2.62	2.62	1.75	1.75	1.50	
		(689.46)	(14.47)	(66.55)	(66.55)	(44.45)	(44.45)	(38.10)	
MPL16	1" NPT	10,000	0.765	3.00	3.00	2.13	2.13	1.38	
		(689.46)	(19.43)	(76.20)	(76.20)	(54.10)	(54.10)	(35.05)	

Male Pipe Tee

MPT4440	1/4" NPT	15,000	0.219	2.25	1.50	1.13	1.13	0.75	
		(1034.20)	(5.54)	(57.15)	(38.10)	(28.70)	(28.70)	(19.05)	
MPT6660	3/8" NPT	15,000	0.297	2.50	1.75	1.75	1.25	1.00	
		(1034.20)	(7.54)	(63.50)	(44.45)	(44.45)	(31.75)	(25.40)	
MPT8880	1/2" NPT	15,000	0.359	3.00	2.00	1.50	1.50	1.00	See
		(1034.20)	(9.12)	(76.20)	(50.80)	(38.10)	(38.10)	(25.40)	Figure 3
MPT12	3/4" NPT	10,000	0.609	3.50	2.62	1.75	1.75	1.50	-
		(689.46)	(14.47)	(88.90)	(66.55)	(44.45)	(44.45)	(38.10)	
MPT16	1" NPT	10,000	0.765	4.12	3.00	2.13	2.13	1.75	
		(689.46)	(19.43)	(104.65)	(76.20)	(54.10)	(54.10)	(44.45)	







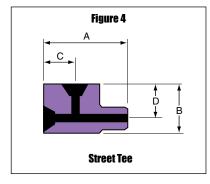
Catalog	Connection	Pressure	Minimum	Dim	Dimensions - inches (mm) Block		Fitting		
Number	Туре	Rating psi (bar)*	Opening	А	В	С	D	Thickness	Pattern

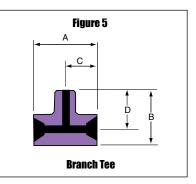
Street Pipe Tee

SPT4440	1/4" NPT	15,000	0.219	2.00	1.38	0.81	1.00	0.75	
		(1034.20)	(5.54)	(50.80)	(35.05)	(20.57)	(25.40)	(19.05)	
SPT6660	3/8" NPT	15,000	0.297	2.50	1.50	1.00	1.00	1.00	
		(1034.20)	(7.54)	(63.50)	(38.10)	(25.40)	(25.40)	(25.40)	
SPT8880	1/2" NPT	15,000	0.359	3.00	1.75	1.50	1.25	1.25	See
		(1034.20)	(9.12)	(76.20)	(44.45)	(38.10)	(31.75)	(31.75)	Figure 4
SPT12	3/4" NPT	10,000	0.609	3.12	2.62	1.38	1.31	1.50	-
		(689.46)	(14.47)	(79.25)	(66.55)	(35.05)	(33.27)	(38.10)	
SPT16	1" NPT	10,000	0.765	4.12	3.00	2.13	2.13	1.75	
		(689.46)	(19.43)	(104.65)	(76.20)	(54.10)	(54.10)	(44.45)	

Male Branch Tee

BPT4440	1/4" NPT	15,000	0.219	2.00	1.50	1.00	1.13	0.75	
		(1034.20)	(5.54)	(50.80)	(38.10)	(25.40)	(28.70)	(19.05)	
BPT6660	3/8" NPT	15,000	0.297	2.00	1.75	1.00	1.25	1.00	
		(1034.20)	(7.54)	(50.80)	(44.45)	(25.40)	(31.75)	(25.40)	
BPT8880	1/2" NPT	15,000	0.359	3.00	2.25	1.50	1.62	1.25	See
		(1034.20)	(9.12)	(76.20)	(57.15)	(38.10)	(41.15)	(31.75)	Figure 5
BPT12	3/4" NPT	10,000	0.609	3.00	2.50	1.50	1.75	1.38	-
		(689.46)	(14.47)	(76.20)	(63.50)	(38.10)	(44.45)	(35.05)	
BPT16	1" NPT	10,000	0.765	4.12	3.00	2.06	2.13	1.75	
		(689.46)	(19.43)	(104.65)	(76.20)	(52.32)	(54.10)	(44.45)	





NOTE: NPT (Pipe) Connections:

- NPT threads must be sealed using a high quality PTFE tape and/or paste product. Refer to thread sealant manufacturer's instructions on how to apply thread sealant.
- Sealing performance may vary based on many factors such as pressure, temperature, media, thread quality, thread material, proper thread engagement and proper use of thread sealant.
- Customer should limit the number of times an NPT fitting is assembled and disassembled because thread deformation during assembly will result in deteriorating seal quality over time. When using only PTFE tape, consider using thread lubrication to prevent galling of mating parts.

Pipe Hex Nipples

Pressures to 15,000 psi (1034 bar)

For rapid system make-up, Parker Autoclave Engineers supplies pipe nipples in various sizes and lengths for pipe valves and fittings.

Special lengths

In addition to the standard lengths listed in the table below, nipples are available in custom lengths. Consult factory.

Catalog	Connection	Pressure	Minimum	Dimension	s - in.(mm)	Fitting
Number	Туре	Rating psi (bar)*	Opening	A Hex	В	Pattern

Pipe Hex Close Nipples

-						
15MAP4P4	1/4" NPT	15,000	0.219	0.63	1.81	
		(1034.20)	(5.54)	(16.00)	(46.02)	
15MAP6P6	3/8" NPT	15,000	0.297	0.75	1.88	
		(1034.20)	(7.54)	(19.05)	(47.63)	
15MAP8P8	1/2" NPT	15,000	0.359	0.94	2.50	See
		(1034.20)	(9.12)	(23.88)	(63.50)	Figure 1
10MAP12P12	3/4" NPT	10,000	0.609	1.19	2.50	-
		(689.46)	(14.47)	(30.23)	(63.50)	
10MAP16P16	1" NPT	10,000	0.765	1.38	3.19	
		(689.46)	(19.43)	(35.05)	(81.03)	

Pipe Hex Nipples

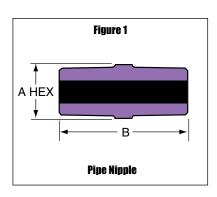
і про пол	mppioo					
15MAP4P4-4	1/4" NPT	15,000	0.219	0.63	4.00	
		(1034.20)	(5.54)	(16.00)	(101.60)	
15MAP4P4-6	1/4" NPT	15,000	0.219	0.63	6.00	
		(1034.20)	(5.54)	(16.00)	(152.40)	
15MAP4P4-8	1/4" NPT	15,000	0.219	0.63	8.00	
		(1034.20)	(5.54)	(16.00)	(203.20)	
15MAP6P6-4	3/8" NPT	15,000	0.297	0.75	4.00	
		(1034.20)	(7.54)	(19.05)	(101.60)	
15MAP6P6-6	3/8" NPT	15,000	0.297	0.75	6.00	
		(1034.20)	(7.54)	(19.05)	(152.40)	
15MAP6P6-8	3/8" NPT	15,000	0.297	0.75	8.00	
		(1034.20)	(7.54)	(19.05)	(203.20)	
15MAP8P8-4	1/2" NPT	15,000	0.359	0.94	4.00	
		(1034.20)	(9.12)	(23.88)	(101.60)	
15MAP8P8-6	1/2" NPT	15,000	0.359	0.94	6.00	See
		(1034.20)	(9.12)	(23.88)	(152.40)	Figure 1
15MAP8P8-8	1/2" NPT	15,000	0.359	0.94	8.00	i iguic i
		(1034.20)	(9.12)	(23.88)	(203.20)	
10MAP12P12-4	3/4" NPT	10,000	0.609	1.19	4.00	
		(689.46)	(14.47)	(30.23)	(101.60)	
10MAP12P12-6	3/4" NPT	10,000	0.609	1.19	6.00	
		(689.46)	(14.47)	(30.23)	(152.40)	
10MAP12P12-8	3/4" NPT	10,000	0.609	1.19	8.00	
		(689.46)	(14.47)	(30.23)	(203.20)	
10MAP16P16-4	1" NPT	10,000	0.765	1.38	4.00	
		(689.46)	(19.43)	(35.05)	(101.60)	
10MAP16P16-6	1" NPT	10,000	0.765	1.38	6.00	
		(689.46)	(19.43)	(35.05)	(152.40)	
10MAP16P16-8	1" NPT	10,000	0.765	1.38	8.00	
		(689.46)	(19.43)	(35.05)	(203.20)	

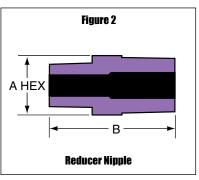
Pipe Hex Reducer Nipples

-							
15MAP4P6	1/4" to 3/8" NPT	15,000	0.203	0.75	1.88		
		(1034.20)	(5.16)	(19.05)	(47.75)		
15MAP4P8	1/4" to 1/2" NPT	15,000	0.203	0.94	2.31	See	
		(1034.20)	(5.16)	(23.88)	(58.67)		
10MAP8P16	1/2" to 1" NPT	10,000	0.375	1.38	2.88	Figure 2	
		(689.46)	(9.53)	(35.05)	(73.15)		
10MAP12P16	3/4" to 1" NPT	10,000	0.500	1.38	2.94		
		(689.46)	(12.70)	(35.05)	(74.68)		
10MAP8P16	1/2" to 1" NPT	(1034.20) 10,000 (689.46) 10,000	(5.16) 0.375 (9.53) 0.500	(23.88) 1.38 (35.05) 1.38	(58.67) 2.88 (73.15) 2.94	See Figure	2

Special material filters may be supplied with four flats in place of standard hex. *Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower. *All dimensions for reference only and subject to change.*



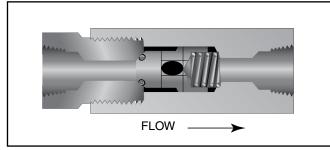




Pipe Check Valves

Pressures to 15,000 (1034 bar)

Pipe O-Ring Check Valves



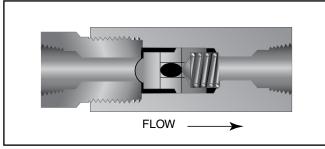
Minimum operating temperature for standard o-ring check valves 0°F (-17.8°C).

Provides unidirectional flow and tight shut-off for liquids and gas with high reliability. When differential drops below cracking pressure*, valve shuts off. (Not for use as relief valve.)

Materials: 316 Stainless Steel: body, cover, poppet, cover gland. 300 Series Stainless Steel: spring Standard O-ring: Viton, for operation to 400° F (204°C). Buna-N or PTFE available for 250°F (121°C) or 400°F (204°C) respectively; specify when ordering.

***Cracking Pressure:** 20 psi (1.38 bar) ±30%. Springs for higher cracking pressures (up to 100 psi (6.89 bar)) available on special order for O-ring style check valves only.

Pipe Ball Check Valves



Minimum operating temperature for pipe ball check valves 0°F (-17.8°C).

Prevents reverse flow where **leak-tight shut-off is not mandatory**. When differential drops below cracking pressure, valve closes. With all-metal components, valve can be used up to 400°F (204°C). See Technical Information section for connection temperature limitations. (Not for use as a relief valve.)

Ball and poppet are an integral design to assure positive, in-line seating without "chatter". Poppet is designed essentially for axial flow with minimum pressure drop.

Materials: 316 Stainless Steel: body, cover, ball poppet, cover gland. 300 Series Stainless Steel: ball, spring.

CAUTION: While testing has shown O-Rings to provide satisfactory service life, both cyclic and shelf life may vary widely with differing service conditions, properties of reactants, pressure and temperature cycling and age of the O-ring. FREQUENT INSPECTIONS SHOULD BE MADE to detect any deterioration, and O-rings replaced as required.

Special material check valves may be supplied with four flats in place of standard hex.

Pipe Check Valves

Catalog	Connection	Pressure	Minimum	Rated	Dim	ensions	- inches	(mm)	Fitting
Number	Туре	Rating psi (bar)*	Opening	Cv	A	В	C Hex	D Hex	Pattern

Pipe O-Ring Check Valves

CP04400 CP06600	1/4" NPT 3/8" NPT	15,000 (1034.20) 15,000	0.12 (3.05) 0.22	.28 .84	3.37 (85.60) 3.95	2.38 (60.33) 2.88	0.81 (20.57) 1.00	0.81 (20.57) 1.00	
		(1034.20)	(5.59)		(100.33)	(73.15)	(25.40)	(25.40)	
CP08800	1/2" NPT	15,000	0.36	2.30	5.36	3.88	1.38	1.19	See
		(1034.20)	(9.14)		(136.14)	(98.55)	(35.05)	(30.23)	Figure 1
CP012	3/4" NPT	10,000	0.52	4.70	6.29	4.75	1.75	1.38	
		(689.46)	(13.21)		(159.77)	(120.65)	(44.45)	(35.05)	
CP016	1" NPT	10,000	0.69	7.40	7.71	5.75	1.88+	1.88	
		(689.46)	(17.53)		(195.83)	(146.05)	(47.75)	(47.75)	

Pipe Ball Check Valves

0004400		15 000	0.10	00	0.07	0.00	0.01	0.04	
CPB4400	1/4" NPT	15,000	0.12	.28	3.37	2.38	0.81	0.81	
		(1034.20)	(3.05)		(85.60)	(60.33)	(20.57)	(20.57)	
CPB6600	3/8" NPT	15,000	0.22	.84	3.95	2.88	1.00	1.00	
		(1034.20)	(5.59)		(100.33)	(73.15)	(25.40)	(25.40)	
CPB8800	1/2" NPT	15,000	0.36	2.30	5.36	3.88	1.38	1.19	See
		(1034.20)	(9.12)		(136.14)	(98.55)	(35.05)	(30.23)	Figure 1
CPB12	3/4" NPT	10,000	0.52	4.70	6.29	4.75	1.75	1.38	i iguic i
		(689.46)	(13.21)		(159.77)	(120.65)	(44.45)	(35.05)	
CPB16	1" NPT	10,000	0.69	7.40	7.71	5.75	1.88 ⁺	1.88	1
		(689.46)	(17.53)		(195.83)	(146.05)	(47.75)	(47.75)	

*Maximum pressure rating is based on the lowest rating of any component + distance across flats

All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave stocks select products. Consult your local representative.

NOTE: NPT (Pipe) Connections:

- NPT threads must be sealed using a high quality PTFE tape and/or paste product. Refer to thread sealant manufacturer's instructions on how to apply thread sealant.
- Sealing performance may vary based on many factors such as pressure, temperature, media, thread quality, thread material, proper thread engagement and proper use of thread sealant.
- Customer should limit the number of times an NPT fitting is assembled and disassembled because thread deformation during assembly will result in deteriorating seal quality over time. When using only PTFE tape, consider using thread lubrication to prevent galling of mating parts.

Figure 1 R D HEX C HEX

WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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Caution! Do not mix or interchange parts or tubing with those of other manufacturers. Doing so is unsafe and will void warranty.

Caution! Parker Autoclave Engineers Valves, Fittings and Tools are not designed to work with common commercial instrument tubing and will only work with tubing built to Parker Autoclave Engineers AES Specifications. Failure to do so will void warranty.

ISO-9001 Certified

Adapters/Couplings

Parker Autoclave Engineers offers a complete line of standard adapters and couplings as well as special designs and materials.

Male/Female Adapters:

Male/female adapters are designed to join a female connection directly to another size and/or type of connection without the need for an additional coupling.

Couplings:

Couplings and reducer/adapter couplings accommodate female-to-female joining of any combination of standard size tubing listed.

Male/Male Adapters:

Male-to-male one piece adapters are designed to join two female connections of any combination listed.

QSS Male/Female Adapters:

Male/female adapters are designed to join a female connection directly to another size and/or type of connection without the need for an additional coupling.

QSS Male/Male Adapters:

Male-to-male one piece adapters are designed to join two female connections of any combination listed.

Male/Male JIC Adapters:

Male-to-male one piece adapters have one end machined with a 37° flare design.

Male/Female JIC Adapters:

Male/female adapters are designed to join a female connection directly to another size and/or type of connection without the need for an additional coupling.

EZ-Union Adapters:

O-ring face seal adapter. Flat face style o-ring seal permits easy installation or removal of components.

Butt-Weld/Header Coupling Adapters:

Female to male adapters have one end machined for butt-welding to pipe, tubes, and headers.

Bulkhead Adapters:

Male to female adapters designed for panel mounting.

SAE O-Ring Adapters:

Female to male SAE/MS straight thread o-ring seal adapter.

For specials or other adapters not listed contact your local Sales Representative.







Adapters/Couplings - Male/Female Adapters

Male /female adapters are designed to adapt a female connection to another size and/or type of connection without the need for additional couplings. In selecting an adapter involving two different sized connections, the larger connection should be on the male end where it is possible to maximize the mechanical strength of the adapter.

To use this chart:

- 1. Locate MALE end in vertical column.
- 2. Locate desired FEMALE end of adapter across top of chart.
- 3. Catalog number of required adapter is located at intersection of columns.
- 4. For one piece adapter add-OP to suffix of part number

Other Adapters

Parker Autoclave Engineers supplies many other types of adapters on special order. These include socketweld to O.D. tube or nominal pipe size, extended or special designs.

Materials

All Parker Autoclave Engineers adapters are precision machined from cold-worked Type 316 stainless steel. Other materials available on special order.

Note: Special material couplings may be supplied with four flats in place of standard hex. Pipe connections are rated 400°F (204°C) to -423°F (-17.8°C).

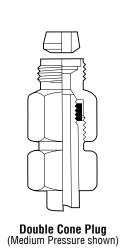
								Female I	END					
			Connectio	n		Spee	dBite				Medium	Pressure		
			ize and Ty		1/8" W125	1/4" SW250	3/8" SW375	1/2" SW500	1/4" SF250CX	3/8" SF375CX	9/16" SF562CX	3/4" SF750CX	1" SF1000CX	1-1/2" SF1500CX
			Fits this Female Connection	Pressure Rating PSI (bar)*	15,000 (1034.20)	15,000 (1034.20)	15,000 (1034.20)	10,000 (689.45)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	15,000 (1034.20)
		1/8"	W125	15,000 (1034.20)		6M24C2	6M26C2	4M28C2	6M24C6	6M26C6	6M29C6			15M224C6
	dBite	1/4"	SW250	15,000 (1034.20)	6M42D1		6M46D2	4M48D2	6M44D6	6M46D6	6M49D6	6M412D6		
	SpeedBite	3/8"	SW375	15,000 (1034.20)	6M62D1	6M64D2		4M68D2	6M64D6	6M66D6	6M69D6	6M612D6	6M616D6	15M624D6
		1/2"	SW500	10,000 (689.46)	4M82D1	4M84D2	4M86D2		4M84D6	4M86D6	4M89D6	4M812D6	4M816D6	
		1/4"	SF250CX	20,000 (1378.93)	15MX42K1	6MX44K2	6MX46K2	4MX48K2	20M44K6	20M46K6	20M49K6	20M412K6	20M416K6	
	ure	3/8"	SF375CX	20,000 (1378.93)	15MX62K1	6MX64K2	6MX66K2	4MX68K2	20M64K6	20M66K6	20M69K6	20M612K6	20M616K6	
	Medium Pressure	9/16"	SF562CX	20,000 (1378.93)	15MX92K1	6MX94K2	6MX96K2	4MX98K2	20M94K6	20M96K6	20M99K6	20M912K6	20M916K6	
	ium	3/4"	SF750CX	20,000 (1378.93)	15MX122K1	6MX124K2	6MX126K2	4MX128K2	20M124K6	20M126K6	20M129K6	20M1212K6	20M1216K6	
	Med	1"	SF1000CX	20,000 (1378.93)	15MX162K1	6MX164K2	6MX166K2	4MX168K2	20M164K6	20M166K6	20M169K6	20M1612K6	20M1616K6	
		1-1/2"	SF1500CX	15,000 (1034.20)					15M244K6		15M249K6	15M2412K6	15M2416K6	
UD		1"	F1000C43	43,000 (2964.69)										
MALE END	re	1/4"	F250C	60,000 (4136.85)	15M42B1	6M44B2	6M46B2	4M48B2	20M44B6	20M46B6	20M49B6	20M412B6		
Μβ	ressu	5/16"	F312C150	150,000 (10342.14)		6M54B2	6M56B2	4M58B2	20M54B6	20M56B6	20M59B6	20M512B6		
	High Pressure	3/8"	F375C	60,000 (4136.85)	15M62B1	6M64B2	6M66B2	4M68B2	20M64B6	20M66B6	20M69B6	20M612B6	20M616B6	
	Ξ	9/16"	F562C	60,000 (4136.85)	15M92B1	6M94B2	6M94B2	4M98B2	20M94B6	20M96B6	20M99B6	20M912B6	20M916B6	
		9/16"	F562C40	40,000 (2757.90)		6M94G2						20M912G6		
		7/16"	F437FB	10,000 (689.45)	15M72E1	6M74E2	6M76E2	4M78E2	15M74E6	15M76E6	15M79E6			
	Top ottom	9/16"	F562FB	10,000 (689.45)	15M92E1	6M94E2	6M96E2	4M98E2	15M94E6	15M96E6	15M99E6	15M912E6	15M916E6	
	Flat Top Flat Bottom	9/16"	F562FT	10,000 (689.45)	15M92R1	6M94R2	6M96R2	4M98R2	15M94R6	15M96R6	15M99R6	15M912R6	15M916R6	
		3/4"	F750FB	10,000 (689.45)	15M122E1	6M124E2	6M126E2	4M128E2	15M124E6	15M126E6	15M129E6	15M1212E6	15M1216E6	
		1/8"	NPT	15,000 (1034.20)	15M22N1	15M24N2	15M26N2	10M28N2	15M24N6	15M26N6	15M29N6			
	(NPT)	1/4"	NPT	15,000 (1034.20)	15M42N1	15M44N2	15M46N2	10M48N2	15M44N6	15M46N6	15M49N6	15M412N6	15M416N6	15M424N6
	Thread	3/8"	NPT	15,000 (1034.20)	15M62N1	15M64N2	15M66N2	10M68N2	15M64N6	15M66N6	15M69N6	15M612N6	15M616N6	
	National Pipe Thread	1/2"	NPT	15,000 (1034.20)	15M82N1	15M84N2	15M86N2	10M88N2	15M84N6	15M86N6	15M89N6	15M812N6	15M816N6	
	lationa	3/4"	NPT	10,000 (689.45)		10M124N2	10M126N2	10M128N2	10M124N6	10M126N6	10M129N6	10M1212N6	10M1216N6	
	~	1"	NPT	10,000 (689.45)			10M166N2	10M168N2		10M166N6	10M169N6	10M1612N6	10M1616N6	

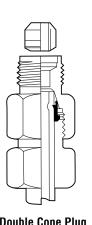
Note:

All Parker Autoclave Engineers adapters are supplied complete with appropriate glands, collars, tube nuts and sleeves unless specified without.

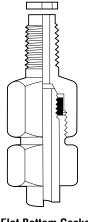
* The maximum pressure rating for an adapter is determined by the connection component with the LOWEST pressure rating; that is, the two end connections and the tubing or pipe used, whichever is LOWER.

CAUTION: See appropriate pressure section in reference to proper selection of tubing.

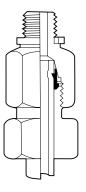




Double Cone Plug (SpeedBite shown)



Flat Bottom Gasket (Medium Pressure shown)





Male NPT (High Pressure shown)

					FEMAL	.e end					
		High I	Pressure					National Pipe	e Thread (NPT)		
1" F1000C43	1/4" F250C	5/16" F312C150	3/8" F375C	9/16" F562C	9/16" F562C40	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT
43,000 (2964.69)	60,000 (4136.85)	150,000 (10342.14)	60,000 (4136.85)	60,000 (4136.85)	40,000 (2757.90)	15,000 (1034.20)	15,000 (1034.20)	15,000 (1034.20)	15,000 (1034.20)	10,000 (689.45)	10,000 (689.45)
	6M24C3		6M26C3	6M29C3		15M22C8	15M24C8	15M26C8	15M28C8		
	6M44D3		6M46D3	6M49D3		15M42D8	15M44D8	15M46D8	15M48D8	10M412D8	
	6M64D3		6M66D3	6M69D3		15M62D8	15M64D8	15M66D8	15M68D8	10M612D8	10M616D8
	4M84D3		4M86D3	4M89D3		10M82D8	10M84D8	10M86D8	10M88D8	10M812D8	10M816D8
	20M44K3	20M45K3	20M46K3	20M49K3		15MX42K8	15MX44K8	15MX46K8	15MX48K8	10MX412K8	
	20M64K3	20M65K3	20M66K3	20M69K3		15MX62K8	15MX64K8	15MX66K8	15MX68K8	10MX612K8	10MX616K8
	20M94K3	20M95K3	20M96K3	20M99K3		15MX92K8	15MX94K8	15MX96K8	15MX98K8	10MX912K8	10MX916K8
20M1216K3	20M124K3	20M125K3	20M126K3	20M129K3	20M129K40		15MX124K8	15MX126K8	15MX128K8	10MX1212K8	10MX1216K8
	20M164K3		20M166K3	20M169K3			15MX164K8	15MX166K8	15MX168K8	10MX1612K8	10MX1616K8
							15M244K8		15M248K8		
	43M164B3		43M166B3	43M169B3	43M169B40						
43M416B3	60M44B3	60M45B3	60M46B3	60M49B3		15M42B8	15M44B8	15M46B8	15M48B8	10M412B8	10M416B8
	60M54B3		60M56B3	60M59B3					15M58B8	10M512B8	
43M616B3	60M64B3	60M65B3	60M66B3	60M69B3		15M62B8	15M64B8	15M66B8	15M68B8	10M612B8	10M616B8
43M916B3	60M94B3	60M95B3	60M96B3	60M99B3		15M92B8	15M94B8	15M96B8	15M98B8	10M912B8	10M916B8
									15M98G8		
	15M74E3		15M76E3	15M79E3		10M72E8	10M74E8	10M76E8	10M78E8	10M712E8	
	15M94E3		15M96E3			10M92E8	10M94E8	10M96E8	10M98E8	10M912E8	10M916E8
	15M94R3		15M96R3	15M99R3		10M92R8	10M94R8	10M96R8	10M98R8	10M912R8	10M916R8
	15M124E3		15M126E3	15M129E3		10M122E8	10M124E8	10M126E8	10M128E8	10M1212E8	10M1216E8
	15M24N3		15M26N3	15M29N3			15M24N8				
	15M44N3	15M45N3	15M46N3	15M49N3		15M42N8		15M46N8	15M48N8		
	15M64N3		15M66N3	15M69N3	15M69N40		15M64N8		15M68N8		
	15M84N3		15M86N3	15M89N3	15M89N40		15M84N8	15M86N8		10M812N8	
	10M124N3		10M126N3	10M129N3		10M122N8	10M124N8		10M128N8		
			10M166N3	10M169N3					10M168N8		

Parker Autoclave Engineers Male/Female Adapters are available in a "one-piece" design. They are identical to the two piece designs in length and can be ordered by adding the suffix - OP to the two piece adapter part numbers listed.

Adapters/Gouplings - Male/Female Adapters

Speed Bite

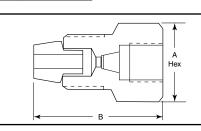
Male End	Female	Catalog	Dimension i	nches (mm)
Fits this Connection	End	Number	A Hex	В
W125	W125			
W125	SW250	6M24C2	0.63 (15.9)	1.29 (32.1)
W125	SW375	6M26C2	0.75 (19.1)	1.41 (35.8)
W125	SW500	4M28C2	1.00 (25.4)	1.53 (38.8)
W125	SF250CX	6M24C6	0.63 (15.9)	1.41 (35.8)
W125	SF375CX	6M26C6	0.75 (19.1)	1.41 (35.8)
W125	SF562CX	6M29C6	1.00 (25.4)	1.66 (42.1)
W125	SF750CX			
W125	SF1000CX			
W125	SF1500CX	15M224C6	2.25 (57.15)	3.41 (86.54)
W125	F1000C43			
W125	F250C	6M24C3	0.75 (19.1)	1.16 (29.5)
W125	F312C150			
W125	F375C	6M26C3	1.00 (25.4)	1.34 (34.1)
W125	F562C	6M29C3	1.38 (35.1)	1.59 (40.5)
W125	F562C40			
W125	1/8 NPT	15M22C8	0.63 (15.9)	1.25 (31.8)
W125	1/4 NPT	15M24C8	0.75 (19.1)	1.47 (37.3)
W125	3/8 NPT	15M26C8	1.00 (25.4)	1.53 (38.8)
W125	1/2 NPT	15M28C8	1.18 (30.1)	1.81 (46.0)
W125	3/4 NPT			
W125	1 NPT			
SW250	W125	6M42D1	0.63 (15.9)	1.08 (27.4)
SW250	SW250			
SW250	SW375	6M46D2	0.75 (19.1)	1.64 (41.7)
SW250	SW500	4M48D2	1.00 (25.4)	1.77 (44.9)
SW250	SF250CX	6M44D6	0.63 (15.9)	1.52 (38.5)
SW250	SF375CX	6M46D6	0.75 (19.1)	1.77 (44.9)
SW250	SF562CX	6M49D6	1.00 (25.4)	1.89 (48.0)
SW250	SF750CX	6M412D6	1.38 (35.1)	2.27 (57.7)
SW250	SF1000CX			
SW250	F1000C43	014450	75 (10.1)	1.07 (00.0)
SW250	F250C	6M44D3	.75 (19.1)	1.27 (32.2)
SW250	F312C150	014/020	1.00 (05.4)	1 70 (40 0)
SW250	F375C	6M46D3	1.00 (25.4)	1.70 (43.3)
SW250	F562C	6M49D3	1.38 (35.1)	1.77 (44.9)
SW250	F562C40	15144050	0.00 (15.0)	1.00 (05.0)
SW250	1/8 NPT	15M42D8	0.63 (15.9)	1.39 (35.3)
SW250	1/4 NPT	15M44D8	0.75 (19.1)	1.64 (41.7)
SW250	3/8 NPT	15M46D8	1.00 (25.4)	1.70 (43.3)
SW250	1/2 NPT	15M48D8	1.18 (30.1)	1.95 (49.6)
SW250	3/4 NPT	10M412D8	1.38 (35.1)	2.21 (56.0)
SW250	1 NPT			

Male End	Female	Catalog	Dimension ii	nches (mm)
Fits this Connection	End	Number	A Hex	В
CONNECTION				
SW375	W125	6M62D1	0.75 (19.1)	1.16 (29.4)
SW375	SW250	6M64D2	0.75 (19.1)	1.41 (35.7)
SW375	SW375			
SW375	SW500	4M68D2	1.00 (25.4)	1.78 (45.3)
SW375	SF250CX	6M64D6	0.75 (19.1)	1.41 (35.9)
SW375	SF375CX	6M66D6	0.75 (19.1)	1.59 (40.4)
SW375	SF562CX	6M69D6	1.00 (25.4)	1.72 (43.7)
SW375	SF750CX	6M612D6	1.38 (35.1)	2.28 (57.9)
SW375	SF1000CX	6M616D6	1.75 (44.5)	2.78 (70.7)
SW375	SF1500CX	15M624D6	2.25 (57.15)	3.53 (89.71)
SW375	F1000C43			
SW375	F250C	6M64D3	0.75 (19.1)	1.41 (35.7)
SW375	F312C150			
SW375	F375C	6M66D3	1.00 (25.4)	1.66 (42.2)
SW375	F562C	6M69D3	1.38 (35.1)	1.78 (45.3)
SW375	F562C40			
SW375	1/8 NPT	15M62D8	0.75 (19.1)	1.41 (35.7)
SW375	1/4 NPT	15M64D8	0.75 (19.1)	1.66 (42.2)
SW375	3/8 NPT	15M66D8	1.00 (25.4)	1.78 (45.3)
SW375	1/2 NPT	15M68D8	1.18 (30.1)	1.97 (50.0)
SW375	3/4 NPT	10M612D8	1.38 (35.1)	2.28 (57.9)
SW375	1 NPT	10M616D8	1.75 (44.5)	2.78 (70.7)
SW500	W125	4M82D1	0.94 (23.8)	1.22 (31.0)
SW500	SW250	4M84D2	0.94 (23.8)	1.34 (34.1)
SW500	SW375	4M86D2	0.94 (23.8)	1.47 (37.3)
SW500	SW500			
SW500	SF250CX	4M84D6	1.00 (25.4)	1.59 (40.5)
SW500	SF375CX	4M86D6	1.00 (25.4)	1.59 (40.5)
SW500	SF562CX	4M89D6	1.00 (25.4)	1.66 (42.2)
SW500	SF750CX	4M812D6	1.38 (35.1)	2.09 (53.2)
SW500	SF1000CX	4M816D6	1.75 (44.5)	2.72 (69.0)
SW500	F1000C43			
SW500	F250C	4M84D3	0.94 (23.8)	1.41 (35.7)
SW500	F312C150			
SW500	F375C	4M86D3	1.00 (25.4)	1.59 (40.5)
SW500	F562C	4M89D3	1.38 (35.1)	1.72 (43.7)
SW500	F562C40			
SW500	1/8 NPT	10M82D8	1.00 (25.4)	1.34 (34.1)
SW500	1/4 NPT	10M84D8	1.00 (25.4)	1.47 (37.3)
SW500	3/8 NPT	10M86D8	1.00 (25.4)	1.72 (43.7)
SW500	1/2 NPT	10M88D8	1.18 (30.1)	2.16 (54.7)
SW500	3/4 NPT	10M812D8	1.38 (35.1)	2.22 (56.3)
SW500	1 NPT	10M816D8	1.75 (44.5)	2.47 (62.7)

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see selection chart.

All Dimensions for reference only and subject to change.



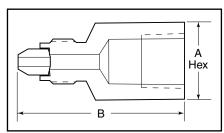
Medium Pressure

Male End	Female	Catalog	Dimension i	nches (mm)	Male End	Female	Catalog	Dimension i	nches (mm)
Fits this Connection	End	Number	A Hex	В	Fits this Connection	End	Number	A Hex	В
SF250CX	W125	15MX42K1	0.63 (15.9)	1.34 (34.1)	SF562CX	W125	15MX92K1	0.81 (20.6)	1.75 (44.5)
SF250CX	SW250	6MX44K2	0.63 (15.9)	1.59 (40.5)	SF562CX	SW250	6MX94K2	0.94 (23.8)	1.75 (44.5)
SF250CX	SW375	6MX46K2	0.75 (19.1)	1.59 (40.5)	SF562CX	SW375	6MX96K2	0.94 (23.8)	1.75 (44.5)
SF250CX	SW500	4MX48K2	1.00 (25.4)	1.00 (25.4)	SF562CX	SW500	4MX98K2	1.00 (25.4)	1.94 (49.2)
SF250CX	SF250CX	20M44K6	0.63 (15.9)	1.47 (37.3)	SF562CX	SF250CX	20M94K6	0.94 (23.8)	1.34 (34.1)
SF250CX	SF375CX	20M46K6	0.75 (19.1)	1.59 (40.5)	SF562CX	SF375CX	20M96K6	0.94 (23.8)	1.34 (59.5)
SF250CX	SF562CX	20M49K6	1.00 (25.4)	1.97 (50.0)	SF562CX	SF562CX	20M99K6	1.00 (25.4)	2.00 (50.8)
SF250CX	SF750CX	20M412K6	1.38 (35.1)	2.34 (59.5)	SF562CX	SF750CX	20M912K6	1.38 (35.1)	3.12 (79.3)
SF250CX	SF1000CX	20M416K6	1.75 (44.5)	2.84 (72.2)	SF562CX	SF1000CX	20M916K6	1.75 (44.5)	3.75 (95.3)
SF250CX	F1000C43				SF562CX	F1000C43			
SF250CX	F250C	20M44K3	0.75 (19.1)	1.28 (32.5)	SF562CX	F250C	20M94K3	0.81 (20.6)	1.81 (46.0)
SF250CX	F312C150	20M45K3	1.00 (25.4)	2.09 (53.2)	SF562CX	F312C150	20M95K3	1.00 (25.4)	2.50 (63.5)
SF250CX	F375C	20M46K3	1.00 (25.4)	1.59 (40.5)	SF562CX	F375C	20M96K3	1.00 (25.4)	2.00 (50.8)
SF250CX	F562C	20M49K3	1.38 (35.1)	1.97 (50.0)	SF562CX	F562C	20M99K3	1.38 (35.1)	2.12 (54.0)
SF250CX	F562C40				SF562CX	F562C40			
SF250CX	1/8 NPT	15MX42K8	0.63 (15.9)	1.47(37.3)	SF562CX	1/8 NPT	15MX92K8	0.94 (23.8)	1.75 (44.5)
SF250CX	1/4 NPT	15MX44K8	0.75 (19.1)	1.59 (40.5)	SF562CX	1/4 NPT	15MX94K8	0.94 (23.8)	2.18 (55.5)
SF250CX	3/8 NPT	15MX46K8	1.00 (25.4)	1.66 (42.2)	SF562CX	3/8 NPT	15MX96K8	0.94 (23.8)	2.18 (55.5)
SF250CX	1/2 NPT	15MX48K8	1.18 (30.1)	1.97 (50.0)	SF562CX	1/2 NPT	15MX98K8	1.18 (30.1)	2.44 (61.9)
SF250CX	3/4 NPT	10MX412K8	1.38 (35.1)	2.09 (53.2)	SF562CX	3/4 NPT	10MX912K8	1.50 (38.1)	2.50 (63.5)
SF250CX	1 NPT				SF562CX	1 NPT	10MX916K8	1.75 (44.5)	3.00 (76.2)
SF375CX	W125	15MX62K1	0.63 (15.9)	1.50 (38.1)	SF750CX	W125			
SF375CX	SW250	6MX64K2	0.63 (15.9)	1.63 (41.3)	SF750CX	SW250	6MX124K2	1.18 (30.1)	2.06 (52.4)
SF375CX	SW375	6MX66K2	1.00 (25.4)	1.82 (46.0)	SF750CX	SW375	6MX126K2	1.18 (30.1)	1.97 (50.0)
SF375CX	SW500	4MX68K2	1.00 (25.4)	2.00 (50.8)	SF750CX	SW500	4MX128K2	1.18 (30.1)	2.32 (58.72)
SF375CX	SF250CX	20M64K6	0.63 (15.9)	1.39 (35.2)	SF750CX	SF250CX	20M124K6	1.18 (30.1)	2.06 (52.4)
SF375CX	SF375CX	20M66K6	.75 (19.1)	1.66 (42.2)	SF750CX	SF375CX	20M126K6	1.18 (30.1)	2.06 (52.4)
SF375CX	SF562CX	20M69K6	1.00 (25.4)	2.06 (52.4)	SF750CX	SF562CX	20M129K6	1.18 (30.1)	1.69 (61.9)
SF375CX	SF750CX	20M612K6	1.38 (35.1)	2.50 (63.5)	SF750CX	SF750CX	20M1212K6	1.38 (35.1)	2.56 (65.0)
SF375CX	SF1000CX	20M616K6	1.75 (44.5)	3.06 (77.8)	SF750CX	SF1000CX	20M1216K6	1.75 (44.5)	3.50 (88.9)
SF375CX	F1000C43				SF750CX	F1000C43	20M1216K3	1.75 (44.5)	3.063 (77.78)
SF375CX	F250C	20M64K3	0.75 (19.1)	1.44 (36.5)	SF750CX	F250C	20M124K3	1.18 (30.1)	2.06 (52.32)
SF375CX	F312C150	20M65K3	1.00 (25.4)	2.25 (57.2)	SF750CX	F312C150	20M125K3	1.18 (30.1)	3.12 (79.3)
SF375CX	F375C	20M66K3	1.00 (25.4)	1.63 (41.3)	SF750CX	F375C	20M126K3	1.18 (30.1)	2.06 (52.4)
SF375CX	F562C	20M69K3	1.38 (35.1)	1.88 (47.6)	SF750CX	F562C	20M129K3	1.38 (35.1)	2.32 (58.93)
SF375CX	F562C40				SF750CX	F562C40	20M129K40	1.38 (35.1)	2.38 (60.4)
SF375CX	1/8 NPT	15MX62K8	0.63 (15.9)	1.75 (44.5)	SF750CX	1/8 NPT			
SF375CX	1/4 NPT	15MX64K8	0.75 (19.1)	1.81 (46.0)	SF750CX	1/4 NPT	15MX124K8	1.18 (30.1)	2.50 (63.5)
SF375CX	3/8 NPT	15MX66K8	1.00 (25.4)	1.88 (47.6)	SF750CX	3/8 NPT	15MX126K8	1.18 (30.1)	2.88 (73.0)
SF375CX	1/2 NPT	15MX68K8	1.18 (30.1)	2.12 (54.0)	SF750CX	1/2 NPT	15MX128K8	1.18 (30.1)	2.88 (73.0)
SF375CX	3/4 NPT	10MX612K8	1.38 (35.1)	2.38 (60.3)	SF750CX	3/4 NPT	10MX1212K8	1.38 (35.1)	3.12 (79.3)
SF375CX	1 NPT	10MX616K8	1.75 (44.5)	2.63 (66.7)	SF750CX	1 NPT	10MX1216K8	1.75 (44.5)	3.50 (88.9)

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

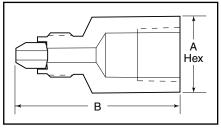
Note: For pressure rating see selection chart.

All Dimensions for reference only and subject to change.



For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.

Male End	Female	Catalog	Dimension i	nches (mm)
Fits this Connection	End	Number	A Hex	В
SF1000CX	W125	6MX162K2	1.38 (35.1)	2.69 (68.3)
SF1000CX	SW250	6MX164K2	1.38 (35.1)	2.63 (66.7)
SF1000CX	SW375	6MX166K2	1.38 (35.1)	2.63 (66.7)
SF1000CX	SW500	4MX168K2	1.18 (30.1)	2.69 (68.25)
SF1000CX	SF250CX	20M164K6	1.38 (35.1)	2.63 (66.7)
SF1000CX	SF375CX	20M166K6	1.38 (35.1)	2.63 (66.7)
SF1000CX	SF562CX	20M169K6	1.38 (35.1)	2.63 (66.7)
SF1000CX	SF750CX	20M1612K6	1.50 (38.1)	2.12 (54.0)
SF1000CX	SF1000CX			
SF1000CX	F1000C43			
SF1000CX	F250C	20M164K3	1.38 (35.1)	2.18 (55.6)
SF1000CX	F312C150			
SF1000CX	F375C	20M166K3	1.38 (35.1)	2.18 (55.6)
SF1000CX	F562C	20M169K3	1.50 (38.1)	2.44 (61.9)
SF1000CX	F562C40			
SF1000CX	1/8 NPT			
SF1000CX	1/4 NPT	15MX164K8	1.50 (38.1)	3.18 (81.0)
SF1000CX	3/8 NPT	15MX166K8	1.75 (44.5)	3.18 (81.0)
SF1000CX	1/2 NPT	15MX168K8	1.75 (44.5)	3.18 (81.0)
SF1000CX	3/4 NPT	10MX1612K8	1.75 (44.5)	3.18 (81.0)
SF1000CX	1 NPT	10MX1616K8	1.75 (44.5)	3.18 (81.0)



Adapter configurations may vary from outline shown

Male End	Female	Catalog	Dimension inches (mm)				
Fits this Connection	End	Number	A Hex	В			
SF1500CX	SF250CX	15M244K6	1.88 (47.75)	3.31 (84.12)			
SF1500CX	SF562CX	15M249K6	1.88 (47.75)	3.31 (84.12)			
SF1500CX	SF750CX	15M2412K6	1.88 (47.75)	3.81 (96.82)			
SF1500CX	SF1000CX	15M2416K6	1.88 (47.75)	4.06 (103.17)			
SF1500CX	1/4 NPT	15M244K8	1.75 (44.5)	3.56 (90.43)			
SF1500CX	1/2 NPT	15M248K8	1.75 (44.5)	3.56 (90.43)			

High Pressure

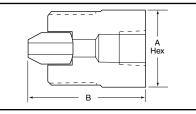
Male End	Female	Catalog	Dimension i	nches (mm)
Fits this Connection	End	Number	A Hex	В
F1000C43	W125			
F1000C43	SW250			
F1000C43	SW375			
F1000C43	SW500			
F1000C43	SF250CX			
F1000C43	SF375CX			
F1000C43	SF562CX			
F1000C43	SF750CX			
F1000C43	SF1000CX			
F1000C43	F1000C43			
F1000C43	F250C	43M164B3	1.38 (35.1)	2.31 (58.7)
F1000C43	F312C150			
F1000C43	F375C	43M166B3	1.38 (35.1)	2.31 (58.7)
F1000C43	F562C	43M169B3	1.50 (38.1)	2.56 (65.1)
F1000C43	F562C40	43M169B40	1.50 (38.1)	2.56 (65.1)
F1000C43	1/8 NPT			
F1000C43	1/4 NPT			
F1000C43	3/8 NPT			
F1000C43	1/2 NPT			
F1000C43	3/4 NPT			
F1000C43	1 NPT			

Male End	Female	Catalog	Dimension in	nches (mm)
Fits this Connection	End	Number	A Hex	В
F250C	W125	15M42B1	0.63 (15.9)	1.25 (31.7)
F250C	SW250	6M44B2	0.63 (15.9)	1.44 (36.5)
F250C	SW375	6M46B2	0.75 (19.1)	1.56 (39.7)
F250C	SW500	4M48B2	1.00 (25.4)	1.69 (42.8)
F250C	SF250CX	20M44B6	0.63 (15.9)	1.31 (33.3)
F250C	SF375CX	20M46B6	0.75 (19.1)	1.69 (42.8)
F250C	SF562CX	20M49B6	1.00 (25.4)	1.81 (46.0)
F250C	SF750CX	20M412B6	1.38 (35.1)	2.18 (55.5)
F250C	SF1000CX			
F250C	F1000C43	43M416B3	1.75 (44.5)	3.00 (76.2)
F250C	F250C	60M44B3	0.81 (20.6)	1.38 (35.1)
F250C	F312C150	60M45B3	1.00 (25.4)	2.06 (52.4)
F250C	F375C	60M46B3	1.00 (25.4)	1.56 (39.7)
F250C	F562C	60M49B3	1.38 (35.1)	1.81 (46.0)
F250C	F562C40			
F250C	1/8 NPT	15M42B8	0.63 (15.9)	1.38 (34.9)
F250C	1/4 NPT	15M44B8	0.75 (19.1)	1.69 (42.8)
F250C	3/8 NPT	15M46B8	1.00 (25.4)	1.69 (42.8)
F250C	1/2 NPT	15M48B8	1.18 (30.1)	2.00 (50.8)
F250C	3/4 NPT	10M412B8	1.38 (35.1)	2.18 (55.5)
F250C	1 NPT	10M416B8	1.75 (44.5)	2.38 (60.3)

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see selection chart.

All Dimensions for reference only and subject to change.



For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.

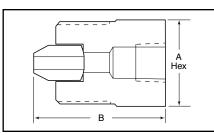
Note: Adapter configurations may vary from outline shown

			Dia i i					Dim ' '	a chara (n
Male End Fits this	Female	Catalog	Dimension ii	ncnes (mm)	Male End	Female	Catalog	Dimension i	ncnes (mm)
Connection	End	Number	A Hex	В	Fits this Connection	End	Number	A Hex	В
F312C150	W125				F562C	W125	15M92B1	1.18 (30.1)	1.50 (38.1)
F312C150	SW250	6M54B2	0.75 (19.1)	2.13 (54.0)	F562C	SW250	6M94B2	1.18 (30.1)	1.69 (42.8)
F312C150	SW375	6M56B2	0.75 (19.1)	2.25 (57.2)	F562C	SW375	6M96B2	1.18 (30.1)	1.69 (42.8)
F312C150	SW500	4M58B2	1.00 (25.4)		F562C	SW500	4M98B2	1.18 (30.1)	1.75 (44.5)
F312C150	SF250CX	20M54B6	0.75 (19.1)	2.00 (50.8)	F562C	SF250CX	20M94B6	1.18 (30.1)	1.69 (42.8)
F312C150	SF375CX	20M56B6	0.75 (19.1)	2.25 (57.2)	F562C	SF375CX	20M96B6	1.18 (30.1)	1.81 (46.0)
F312C150	SF562CX	20M59B6	1.00 (25.4)	2.38 (60.4)	F562C	SF562CX	20M99B6	1.18 (30.1)	1.94 (49.2)
F312C150	SF750CX	20M512B6	1.38 (35.1)	3.00 (76.2)	F562C	SF750CX	20M912B6	1.38 (35.1)	2.31 (58.7)
F312C150	SF1000CX				F562C	SF1000CX	20M916B6	1.75 (44.5)	3.31 (84.1)
F312C150	F1000C43				F562C	F1000C43	43M916B3	1.75 (44.5)	3.31 (84.1)
F312C150	F250C	60M54B3	1.00 (25.4)	2.06 (52.4)	F562C	F250C	60M94B3	1.18 (30.1)	1.69 (42.8)
F312C150	F312C150				F562C	F312C150	60M95B3	1.18 (30.1)	2.31 (58.7)
F312C150	F375C	60M56B3	1.00 (25.4)	2.25 (57.2)	F562C	F375C	60M96B3	1.18 (30.1)	1.88 (47.6)
F312C150	F562C	60M59B3	1.38 (35.1)	2.56 (65.1)	F562C	F562C	60M99B3	1.38 (35.1)	2.31 (58.7)
F312C150	F562C40				F562C	F562C40			
F312C150	1/8 NPT				F562C	1/8 NPT	15M92B8	0.94 (23.8)	1.81 (46.0)
F312C150	1/4 NPT				F562C	1/4 NPT	15M94B8	0.94 (23.8)	1.81 (46.0)
F312C150	3/8 NPT				F562C	3/8 NPT	15M96B8	0.94 (23.8)	1.81 (46.0)
F312C150	1/2 NPT	15M58B8	1.18 (30.1)	2.69 (68.3)	F562C	1/2 NPT	15M98B8	1.18 (30.1)	2.13 (54.0)
F312C150	3/4 NPT	10M512B8	1.38 (35.1)	2.88 (73.0)	F562C	3/4 NPT	10M912B8	1.50 (38.1)	2.31 (58.7)
F312C150	1 NPT				F562C	1 NPT	10M916B8	1.75 (44.5)	1.69 (42.8)
F375C	W125	15M62B1	0.81 (20.6)	1.44 (36.5)	F562C40	W125			
F375C	SW250	6M64B2	0.81 (20.6)	1.69 (42.8)	F562C40	SW250			
F375C	SW375	6M66B2	0.81 (20.6)	1.69 (42.8)	F562C40	SW375			
F375C	SW500	4M68B2	1.00 (25.4)	1.75 (44.5)	F562C40	SW500			
F375C	SF250CX	20M64B6	0.81 (20.6)	1.75 (44.5)	F562C40	SF250CX			
F375C	SF375CX	20M66B6	0.81 (20.6)	1.88 (47.6)	F562C40	SF375CX			
F375C	SF562CX	20M69B6	1.00 (25.4)	2.00 (50.8)	F562C40	SF562CX	001404000	1 00 (05 1)	0.50 (00.5)
F375C	SF750CX	20M612B6	1.38 (35.1)	2.25 (57.2)	F562C40	SF750CX	20M912G6	1.38 (35.1)	2.50 (63.5)
F375C	SF1000CX	20M616B6	1.75 (44.5)	3.25 (82.6)	F562C40	SF1000CX F1000C43			
F375C	F1000C43	43M616B6	1.75 (44.5)	3.25 (82.6)	F562C40				
F375C	F250C	60M64B3	0.81 (20.6)	1.63 (41.3)	F562C40	F250C			
F375C	F312C150	60M65B3	1.00 (25.4)	2.25 (57.2)	F562C40	F312C150			
F375C	F375C	60M66B3	1.00 (25.4)	1.88 (47.63)	F562C40 F562C40	F375C F562C			
F375C F375C	F562C F562C40	60M69B3	1.38 (35.1)	1.63 (41.3)	F562C40	F562C40			
F375C	1/8 NPT	15M62B8	0.81 (20.6)	1.50 (38.1)	F562C40	1/8 NPT			
F375C	1/8 NPT 1/4 NPT	15M64B8	0.81 (20.6)	1.50 (38.1)	F562C40	1/6 NPT 1/4 NPT			
F375C	3/8 NPT	15M66B8	1.00 (25.4)	2.00 (50.8)	F562C40	3/8 NPT			
F375C	1/2 NPT	15M68B8	1.18 (30.1)	2.00 (50.8)	F562C40	1/2 NPT	15M98G8	1.18 (30.1)	2.13 (54.0)
F375C	3/4 NPT	10M612B8	1.38 (35.1)	2.23 (37.2)	F562C40	3/4 NPT	101010000	1.10 (00.1)	2.10 (04.0)
F375C	1 NPT	10M616B8	1.75 (44.5)	2.75 (69.9)	F562C40	1 NPT			
10/00	TIMET		1.75 (44.5)	2.15 (09.9)	1002040				

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see selection chart.

All Dimensions for reference only and subject to change.



Adapter configurations may vary from outline shown

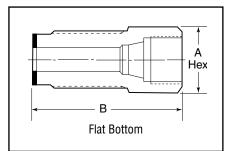
Flat Bottom

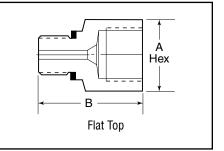
Male End	Female	Catalog	Dimension in	nches (mm)	Male End	Female	Catalog	Dimension i	nches (mm)
Fits this Connection	End	Number	A Hex	В	Fits this Connection	End	Number	A Hex	В
F437FB	W125	15M72E1	0.50 (12.7)	1.41 (35.8)	F750FB	W125	15M122E1	0.75 (19.1)	1.69 (42.8)
F437FB	SW250	6M74E2	0.63 (15.9)	1.53 (38.9)	F750FB	SW250	6M124E2	0.81 (20.6)	2.06 (52.4)
F437FB	SW375	6M76E2	0.75 (19.1)	1.91 (48.4)	F750FB	SW375	6M126E2	0.75 (19.1)	1.94 (49.2)
F437FB	SW500	4M78E2	1.00 (25.4)	2.16 (54.8)	F750FB	SW500	4M128E2	1.00 (25.4)	2.18 (55.5)
F437FB	SF250CX	15M74E6	0.63 (15.9)	1.53 (38.9)	F750FB	SF250CX	15M124E6	0.81 (20.6)	1.94 (49.2)
F437FB	SF375CX	15M76E6	0.75 (19.1)	1.78 (45.2)	F750FB	SF375CX	15M126E6	0.81 (20.6)	2.06 (52.4)
F437FB	SF562CX	15M79E6	1.00 (25.4)	1.91 (48.4)	F750FB	SF562CX	15M129E6	1.00 (25.4)	1.31 (33.3)
F437FB	SF750CX				F750FB	SF750CX	15M1212E6	1.38 (35.1)	1.69 (42.8)
F437FB	SF1000CX				F750FB	SF1000CX	15M1216E6	1.75 (44.5)	3.31 (84.1)
F437FB	F1000C43				F750FB	F1000C43			
F437FB	F250C	15M74E3	0.75 (19.1)	1.53 (38.9)	F750FB	F250C	15M124E3	1.00 (25.4)	1.94 (49.2)
F437FB	F312C150				F750FB	F312C150			
F437FB	F375C	15M76E3	1.00 (25.4)	1.78 (45.2)	F750FB	F375C	15M126E3	1.00 (25.4)	2.18 (55.5)
F437FB	F562C	15M79E3	1.38 (35.1)	2.03 (51.6)	F750FB	F562C	15M129E3	1.38 (35.1)	2.31 (58.7)
F437FB	F562C40				F750FB	F562C40			
F437FB	1/8 NPT	10M72E8	0.63 (15.9)	1.59 (40.4)	F750FB	1/8 NPT	10M122E8	0.94 (23.8)	1.81 (46.0)
F437FB	1/4 NPT	10M74E8	0.75 (19.1)	1.78 (45.2)	F750FB	1/4 NPT	10M124E8	1.00 (25.4)	2.31 (58.7)
F437FB	3/8 NPT	10M76E8	1.00 (25.4)	1.91 (48.4)	F750FB	3/8 NPT	10M126E8	1.00 (25.4)	2.18 (55.5)
F437FB	1/2 NPT	10M78E8	1.18 (30.1)	2.16 (54.8)	F750FB	1/2 NPT	10M128E8	1.18 (30.1)	2.69 (68.3)
F437FB	3/4 NPT				F750FB	3/4 NPT	10M1212E8	1.38 (35.1)	2.69 (68.3)
F437FB	1 NPT				F750FB	1 NPT	10M1216E8	1.88 (47.6)	3.18 (81.0)
							Flat Top		-
F562FB	W125	15M92E1	0.63 (15.9)	1.44 (36.5)	F562FT	W125	15M92R1	0.75 (19.1)	0.94 (23.9)
F562FB	SW250	6M94E2	0.75 (19.1)	2.06 (52.4)	F562FT	SW250	6M94R2	0.75 (19.1)	1.50 (38.1)
F562FB	SW375	6M96E2	0.75 (19.1)	2.25 (57.2)	F562FT	SW375	6M96R2	0.75 (19.1)	1.50 (38.1)
F562FB	SW500	4M98E2	1.00 (25.4)	2.18 (55.5)	F562FT	SW500	4M98R2	1.00 (25.4)	1.63 (41.3)
F562FB	SF250CX	15M94E6	0.63 (15.9)	1.81 (46.0)	F562FT	SF250CX	15M94R6	0.75 (19.1)	1.25 (31.8)
F562FB	SF375CX	15M96E6	0.75 (19.1)	2.06 (52.4)	F562FT	SF375CX	15M96R6	0.75 (19.1)	1.50 (38.1)
F562FB	SF562CX	15M99E6	1.00 (25.4)	1.18 (30.1)	F562FT	SF562CX	15M99R6	1.00 (25.4)	1.63 (41.3)
F562FB	SF750CX	15M912E6	1.38 (35.1)	2.81 (71.4)	F562FT	SF750CX			
F562FB	SF1000CX				F562FT	SF1000CX			
F562FB	F1000C43				F562FT	F1000C43			
F562FB	F250C	15M94E3	0.81 (20.6)	1.94 (49.2)	F562FT	F250C	15M94R3	0.75 (19.1)	1.25 (31.8)
F562FB	F312C150				F562FT	F312C150			
F562FB	F375C	15M96E3	1.00 (25.4)	2.44 (61.9)	F562FT	F375C	15M96R3	1.00 (25.4)	1.50 (38.1)
F562FB	F562C				F562FT	F562C	15M99R3	1.38 (35.1)	1.75 (44.5)
F562FB	F562C40				F562FT	F562C40			
F562FB	1/8 NPT	10M92E8	0.63 (15.9)	1.94 (49.2)	F562FT	1/8 NPT	10M92R8	0.75 (19.1)	1.25 (31.8)
F562FB	1/4 NPT	10M94E8	0.75 (19.1)	2.18 (55.5)	F562FT	1/4 NPT	10M94R8	0.75 (19.1)	1.44 (36.5)
F562FB	3/8 NPT	10M96E8	1.00 (25.4)	2.31 (58.7)	F562FT	3/8 NPT	10M96R8	0.94 (23.8)	1.56 (39.7)
F562FB	1/2 NPT	10M98E8	1.18 (30.1)	1.63 (41.3)	F562FT	1/2 NPT	10M98R8	1.18 (30.1)	2.00 (50.8)
F562FB	3/4 NPT	10M912E8	1.38 (35.1)	2.06 (52.4)	F562FT	3/4 NPT			
F562FB	1 NPT	10M916E8	1.88 (47.6)	2.25 (57.2)	F562FT	1 NPT			

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see selection chart.

All Dimensions for reference only and subject to change.





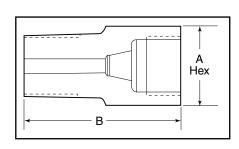
National Pipe Thread (NPT)

Male End	Female	Catalog	Dimension i	nches (mm)	Male End	Female	Catalog	Dimension i	nches (mm)
Fits this Connection	End	Number	A Hex	В	Fits this Connection	End	Number	A Hex	В
1/8 NPT	W125	15M22N1	0.50 (12.7)	1.00 (25.4)	3/8 NPT	W125	15M62N1	0.75 (19.1)	1.13 (28.6)
1/8 NPT	SW250	15M24N2	0.63 (15.9)	1.25 (31.8)	3/8 NPT	SW250	15M64N2	0.75 (19.1)	1.38 (35.1)
1/8 NPT	SW375	15M26N2	0.75 (19.1)	1.44 (36.5)	3/8 NPT	SW375	15M66N2	0.75 (19.1)	1.50 (38.1)
1/8 NPT	SW500	10M28N2	1.00 (25.4)	1.50 (38.1)	3/8 NPT	SW500	10M68N2	1.00 (25.4)	1.75 (44.5)
1/8 NPT	SF250CX	15M24N6	0.63 (15.9)	1.81 (46.0)	3/8 NPT	SF250CX	15M64N6	0.75 (19.1)	1.38 (35.1)
1/8 NPT	SF375CX	15M26N6	0.75 (19.1)	1.38 (35.1)	3/8 NPT	SF375CX	15M66N6	0.75 (19.1)	1.50 (38.1)
1/8 NPT	SF562CX	15M29N6	1.00 (25.4)	1.75 (44.5)	3/8 NPT	SF562CX	15M69N6	1.00 (25.4)	1.75 (44.5)
1/8 NPT	SF750CX				3/8 NPT	SF750CX	15M612N6	1.38 (35.1)	2.00 (50.8)
1/8 NPT	SF1000CX				3/8 NPT	SF1000CX	15M616N6	1.75 (44.5)	2.88 (73.0)
1/8 NPT	F1000C43				3/8 NPT	F1000C43			
1/8 NPT	F250C	15M24N3	0.75 (19.1)	1.25 (31.8)	3/8 NPT	F250C	15M64N3	0.75 (19.1)	1.38 (35.1)
1/8 NPT	F312C150				3/8 NPT	F312C150			
1/8 NPT	F375C	15M26N3	1.00 (25.4)	1.50 (38.1)	3/8 NPT	F375C	15M66N3	1.00 (25.4)	1.63 (41.3)
1/8 NPT	F562C	15M29N3	1.38 (35.1)	1.63 (41.3)	3/8 NPT	F562C	15M69N3	1.38 (35.1)	1.75 (44.5)
1/8 NPT	F562C40				3/8 NPT	F562C40	15M69N40	1.38 (35.1)	1.75 (44.5)
1/8 NPT	1/8 NPT				3/8 NPT	1/8 NPT			
1/8 NPT	1/4 NPT	15M24N8	0.75 (19.1)	1.38 (35.1)	3/8 NPT	1/4 NPT	15M64N8	0.75 (19.1)	1.63 (41.3)
1/8 NPT	3/8 NPT				3/8 NPT	3/8 NPT			
1/8 NPT	1/2 NPT				3/8 NPT	1/2 NPT	15M68N8	1.18 (30.1)	2.25 (57.2)
1/8 NPT	3/4 NPT				3/8 NPT	3/4 NPT			
1/8 NPT	1 NPT				3/8 NPT	1 NPT			
1/4 NPT	W125	15M42N1	0.63 (15.9)	1.13 (28.6)	1/2 NPT	W125	15M82N1	1.00 (25.4)	2.50 (63.5)
1/4 NPT	SW250	15M44N2	0.63 (15.9)	1.38 (35.1)	1/2 NPT	SW250	15M84N2	1.00 (25.4)	1.63 (41.3)
1/4 NPT	SW375	15M46N2	0.75 (19.1)	1.50 (38.1)	1/2 NPT	SW375	15M86N2	1.00 (25.4)	1.63 (41.3)
1/4 NPT	SW500	10M48N2	1.00 (25.4)	1.75 (44.5)	1/2 NPT	SW500	10M88N2	1.00 (25.4)	1.88 (47.6)
1/4 NPT	SF250CX	15M44N6	0.63 (15.9)	1.38 (35.1)	1/2 NPT	SF250CX	15M84N6	1.00 (25.4)	1.38 (35.1)
1/4 NPT	SF375CX	15M46N6	0.75 (19.1)	1.56 (39.7)	1/2 NPT	SF375CX	15M86N6	1.00 (25.4)	1.63 (41.3)
1/4 NPT	SF562CX	15M49N6	1.00 (25.4)	1.75 (44.5)	1/2 NPT	SF562CX	15M89N6	1.00 (25.4)	1.94 (49.2)
1/4 NPT	SF750CX	15M412N6	1.38 (35.1)	2.25 (57.2)	1/2 NPT	SF750CX	15M812N6	1.38 (35.1)	2.18 (55.5)
1/4 NPT	SF1000CX	15M416N6	1.75 (44.5)	2.88 (73.0)	1/2 NPT	SF1000CX	15M816N6	1.75 (44.5)	2.81 (71.4)
1/4 NPT	SF1500CX	15M424N6	2.25 (57.15)	3.48 (88.39)	1/2 NPT	F1000C43			. ,
1/4 NPT	F1000C43				1/2 NPT	F250C	15M84N3	1.00 (25.4)	1.50 (38.1)
1/4 NPT	F250C	15M44N3	0.75 (19.1)	1.38 (35.1)	1/2 NPT	F312C150			
1/4 NPT	F312C150	15M45N3	1.00 (25.4)	2.50 (63.5)	1/2 NPT	F375C	15M86N3	1.00 (25.4)	1.75 (44.5)
1/4 NPT	F375C	15M46N3	1.00 (25.4)	1.63 (41.3)	1/2 NPT	F562C	15M89N3	1.38 (35.1)	1.88 (47.6)
1/4 NPT	F562C	15M49N3	1.38 (35.1)	1.75 (44.5)	1/2 NPT	F562C40	15M89N40	1.38 (35.1)	1.75 (44.5)
1/4 NPT	F562C40				1/2 NPT	1/8 NPT			
1/4 NPT	1/8 NPT	15M42N8	0.63 (15.9)	1.38 (35.1)	1/2 NPT	1/4 NPT	15M84N8	1.00 (25.4)	1.75 (44.5)
1/4 NPT	1/4 NPT				1/2 NPT	3/8 NPT	15M86N8	1.00 (25.4)	1.81 (71.4)
1/4 NPT	3/8 NPT	15M46N8	1.00 (25.4)	1.75 (44.5)	1/2 NPT	1/2 NPT			, ,
1/4 NPT	1/2 NPT	15M48N8	1.18 (30.1)	2.25 (57.2)	1/2 NPT	3/4 NPT	10M812N8	1.38 (35.1)	2.25 (57.2)
1/4 NPT	3/4 NPT		, ,		1/2 NPT	1 NPT			. /
1/4 NPT	1 NPT								

*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see selection chart.

All Dimensions for reference only and subject to change.



National Pipe Thread (NPT)

Male End	Female	Catalog	Dimension i	nches (mm)
Fits this Connection	End	Number	A Hex	В
3/4 NPT	W125			
3/4 NPT	SW250	10M124N2	1.18 (30.1)	1.75 (44.5)
3/4 NPT	SW375	10M126N2	1.18 (30.1)	1.75 (44.5)
3/4 NPT	SW500	10M128N2	1.18 (30.1)	1.75 (44.5)
3/4 NPT	SF250CX	10M124N6	1.18 (30.1)	1.75 (44.5)
3/4 NPT	SF375CX	10M126N6	1.18 (30.1)	1.75 (44.5)
3/4 NPT	SF562CX	10M129N6	1.38 (35.1)	2.00 (50.8)
3/4 NPT	SF750CX	10M1212N6	1.38 (35.1)	2.25 (57.2)
3/4 NPT	SF1000CX	10M1216N6	1.75 (44.5)	2.88 (73.0)
3/4 NPT	F1000C43			
3/4 NPT	F250C	10M124N3	1.18 (30.1)	1.75 (44.5)
3/4 NPT	F312C150			
3/4 NPT	F375C	10M126N3	1.18 (30.1)	2.00 (50.8)
3/4 NPT	F562C	10M129N3	1.38 (35.1)	2.13 (54.0)
3/4 NPT	F562C40			
3/4 NPT	1/8 NPT	10M122N8	1.18 (30.1)	1.63 (41.3)
3/4 NPT	1/4 NPT	10M124N8	1.18 (30.1)	1.63 (41.3)
3/4 NPT	3/8 NPT			
3/4 NPT	1/2 NPT			
3/4 NPT	3/4 NPT			
3/4 NPT	1 NPT			

Male End	Female	Catalog	Dimension i	nches (mm)
Fits this Connection	End	Number	A Hex	В
1 NPT	W125			
1 NPT	SW250			
1 NPT	SW375	10M166N2	1.38 (35.1)	1.75 (44.5)
1 NPT	SW500	10M168N2	1.38 (35.1)	1.75 (44.5)
1 NPT	SF250CX			
1 NPT	SF375CX	10M166N6	1.38 (35.1)	2.00 (50.8)
1 NPT	SF562CX	10M169N6	1.38 (35.1)	2.25 (57.2)
1 NPT	SF750CX	10M1612N6	1.38 (35.1)	2.63 (66.7)
1 NPT	SF1000CX	10M1616N6	1.75 (44.5)	3.06 (77.8)
1 NPT	F1000C43			
1 NPT	F250C			
1 NPT	F312C150			
1 NPT	F375C	10M166N3	1.38 (35.1)	2.00 (50.8)
1 NPT	F562C	10M169N3	1.38 (35.1)	2.25 (57.2)
1 NPT	F562C40			
1 NPT	1/8 NPT			
1 NPT	1/4 NPT			
1 NPT	3/8 NPT			
1 NPT	1/2 NPT	10M168N8	1.38 (35.1)	2.25 (57.2)
1 NPT	3/4 NPT			
1 NPT	1 NPT			

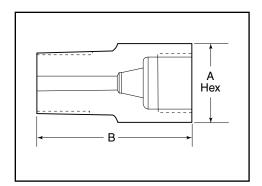
Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see selection chart.

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NOTE: NPT (Pipe) connections

- NPT threads must be sealed using a high quality PTFE tape and/or PTFE paste product. Refer to thread sealant manufacturer's instructions on how to apply thread sealant.
- Sealing performance may vary based on many factors such as pressure, temperature, media, thread quality, thread material, proper thread engagement and proper use of thread sealant.
- Customer should limit the number of times an NPT fitting is assembled and disassembled because thread deformation during assembly will result in deteriorating seal quality over time. When using only PTFE tape, consider using thread lubrication to prevent galling of mating parts.



Adapters/Couplings - **Couplings**

The couplings shown here permit the joining of any combination of standard size tubing or tubing and standard pipe with female-to-female couplings. Other couplings available on special order.

Pressure Rating - The pressure rating of Parker Autoclave Engineers couplings is based on the lower rated connection used.

How to use the Ordering Chart below:

- 1. Locate "A" connection in the vertical column.
- 2. Locate the desired "B" connection across the top of the chart.

3. The catalog number of the required coupling is located at the intersection of the two columns.

		"A" nection								"B"	Connecti	on						
	Con	nection			Spee	edBite		Medium Pressure						High Pre	essure			
	Tube Outside in (mm)	Connector Type	Pressure psi (bar)*	1/8 W 125	1/4 SW 250	3/8 SW 375	1/2** SW 500	1/4 SF 250 CX	3/8 SF 375 CX	9/16 SF 562 CX	3/4 SF 750 CX	1 SF 1000 CX	1 F 1000 C43	1/4 F 250 C	3/8 F 375 C	9/16 F 562 C	9/16 F 562 C40	5/16 F 312 C150
	1/8 (3.18)	W125	15,000 (1034)	15F 2211	6F 2412	6F 2612	4F 2812	15F 2416	15F 2616	15F 2916		15F 21616		15F 2413	15F 2613	15F 2913		
dBite	1/4 (6.35)	SW250	15,000 (1034)		6F 4422	6F 4622	4F 4822	6F 4426	6F 4626	6F 4926				6F 4423	6F 4623	6F 4923		
SpeedBite	3/8 (9.52)	SW375	15,000 (1034)			6F 6622	4F 6822	6F 6426	6F 6626	6F 6926	6F 61226	6F 61626		6F 6423	6F 6623	6F 6923		
	1/2 (12.70)	SW500	10,000 (690)				4F 8822	4F 8426	4F 8626	4F 8926	4F 81226	4F 81626		4F 8423	4F 8623	4F 8923		
	1/4 (6.35)	SF250 CX	20,000 (1379)					20FX 4466	20F 4666	20F 4966	20F 41266	20F 41666	20F 41663	20F 4463	20F 4663	20F 4963		20F 4563
ssure	3/8 (9.52)	SF375 CX	20,000 (1379)						20FX 6666	20F 6966	20F 61266	20F 61666	20F 61663	20F 6463	20F 6663	20F 6963		20F 6563
Medium Pressure	9/16 (14.27)	SF562 CX	20,000 (1379)							20FX 9966	20F 91266	20F 91666		20F 9463	20F 9663	20F 9963		20F 9563
Mediu	3/4 (19.05)	SF750 CX	20,000 (1379)								20FX 12	20F 121666		20F 12463	20F 12663	20F 12963		20F 12563
	1 (25.40)	SF1000 CX	20,000 (1379)									20FX 16		20F 16463	20F 16663	20F 16963		20F 16563
	1 (25.40)	F1000 C43	43,000 (2965)										43F 16					
e	1/4 (6.35)	F250 C	60,000 (4137)										43F 41633	60F 4433	60F 4633	60F 4933		60F 4533
High Pressure	3/8 (9.52)	F375 C	60,000 (4137)										43F 61633		60F 6633	60F 6933		60F 6533
High P	9/16 (14.27)	F562 C	60,000 (4137)										43F 91633			60F 9933		60F 9533
	9/16 (14.27)	F562 C40	40,000 (2760)														40F 9933	
	5/16 (7.92)	F312 C150	15,000 (1034)															150F 5533
L L	1/8 (3.18)	NPT	15,000 (1034)	15F 2281	15F 2482	15F 2682	10F 2882	15F 2486	15F 2686	15F 2986	15F 21286			15F 2483	15F 2683	15F 2983		15F 2583
d (NP	1/4 (6.35)	NPT	15,000 (1034)	15F 4281	15F 4482	15F 4682	10F 4882	15F 4486	15F 4686	15F 4986	15F 41286	15F 41686		15F 4483	15F 4683	15F 4983		15F 4583
Threa	3/8 (9.52)	NPT	15,000 (1034)	15F 6281	15F 6482	15F 6682	10F 6882	15F 6486	15F 6686	15F 6986	15F 61286	15F 61686		15F 6483	15F 6683	15F 6983		15F 6583
National Pipe Thread (NPT)	1/2 (12.70)	NPT	15,000 (1034)	15F 8281	15F 8482	15F 8682	10F 8882	15F 8486	15F 8686	15F 8986	15F 81286	15F 81686		15F 8483	15F 8683	15F 8983		15F 8583
Vation	3/4 (19.05)	NPT	10,000 (1034)				10F 12882		10F 12686	10F 12986	10F 121286	10F 121686				10F 12983		
2	1 (25.40)	NPT	10,000 (1034)							10F 16986		10F 161686		10F 16483		10F 16983		

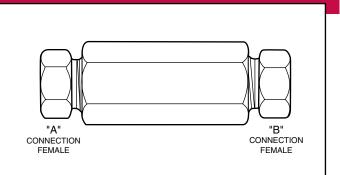
*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

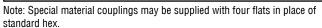
**1/2 low pressure rated to 10,000 psi.

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Coupling Dimensions - Speedbite

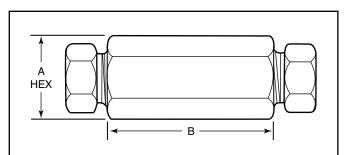
Commention	Opprestign	Ostala a	Dimension i	nches (mm)
Connection "A"	Connection "B"	Catalog Number		, <i>,</i> ,
^	D	Number	A Hex	В
W125	W125	15F2211	0.50 (12.7)	1.25 (31.7)
W125	SW250	6F2412	0.63 (15.9)	1.44 (36.6)
W125	SW375	6F2612	0.75 (19.1)	1.50 (38.1)
W125	SW500	4F2812	1.00 (25.4)	1.63 (41.4)
W125	SF250CX	15F2416	0.63 (15.9)	1.38 (35.1)
W125	SF375CX	15F2616	0.75 (19.1)	1.50 (38.1)
W125	SF562CX	15F2916	1.00 (25.4)	1.75 (44.5)
W125	SF1000CX	15F21616	1.75 (44.5)	2.75 (69.9)
W125	F250C	15F2413	0.75 (19.1)	1.25 (31.7)
W125	F375C	15F2613	1.00 (25.4)	1.50 (38.1)
W125	F562C	15F2913	1.38 (35.1)	1.75 (44.5)
SW250	SW250	6F4422	0.63 (15.9)	1.63 (41.4)
SW250	SW375	6F4622	0.75 (19.1)	1.69 (42.9)
SW250	SW500	4F4822	1.00 (25.4)	1.88 (47.8)
SW250	SF250CX	6F4426	0.63 (15.9)	1.63 (41.4)
SW250	SF375CX	6F4626	0.75 (19.1)	1.75 (44.5)
SW250	SF562CX	6F4926	1.00 (25.4)	2.00 (50.8)
SW250	F250C	6F4423	0.75 (19.1)	1.50 (38.1)
SW250	F375C	6F4623	1.00 (25.4)	1.69 (42.9)
SW250	F562C	6F4923	1.38 (35.1)	2.06 (52.3)

Connection	Connection	Catalog	Dimension i	ension inches (mm)	
"A"	"B"	Number	A Hex	В	
SW375	SW375	6F6622	0.75 (19.1)	1.75 (44.5)	
SW375	SW500	4F6822	1.00 (25.4)	1.88 (47.8)	
SW375	SF250CX	6F6426	0.75 (19.1)	0.88 (22.2)	
SW375	SF375CX	6F6626	0.75 (19.1)	1.75 (44.5)	
SW375	SF562CX	6F6926	1.00 (25.4)	2.00 (50.8)	
SW375	SF750CX	6F61226	1.38 (35.1)	2.25 (57.2)	
SW375	SF1000CX	6F61626	1.75 (44.5)	3.00 (76.2)	
SW375	F250C	6F6423	0.75 (19.1)	1.63 (41.4)	
SW375	F375C	6F6623	1.00 (25.4)	1.81 (46.0)	
SW375	F562C	6F6923	1.38 (35.1)	2.00 (50.8)	
SW500	SW500	4F8822	1.00 (25.4)	2.00 (50.8)	
SW500	SF250CX	4F8426	1.00 (25.4)	1.63 (41.4)	
SW500	SF375CX	4F8626	1.00 (25.4)	1.88 (47.8)	
SW500	SF562CX	4F8926	1.00 (25.4)	2.00 (50.8)	
SW500	SF750CX	4F81226	1.38 (35.1)	2.25 (57.2)	
SW500	SF1000CX	4F81626	1.75 (44.5)	3.00 (76.2)	
SW500	F250C	4F8423	1.00 (25.4)	1.69 (42.9)	
SW500	F375C	4F8623	1.00 (25.4)	1.88 (47.8)	
SW500	F562C	4F8923	1.38 (35.1)	2.06 (52.3)	

Coupling Dimensions - Medium Pressure

Connection	Connection	Catalog	Dimension i	nches (mm)
"A"	"В"	Number	A Hex	В
SF250CX	SF250CX	20FX4466	0.63 (15.9)	1.63 (41.4)
SF250CX	SF375CX	20F4666	0.75 (19.1)	1.75 (44.5)
SF250CX	SF562CX	20F4966	1.00 (25.4)	2.00 (50.8)
SF250CX	SF750CX	20F41266	1.38 (35.1)	2.25 (57.2)
SF250CX	SF1000CX	20F41666	1.75 (44.5)	2.75 (69.9)
SF250CX	F250C	20F4463	0.75 (19.1)	1.38 (35.1)
SF250CX	F375C	20F4663	1.00 (25.4)	1.63 (41.4)
SF250CX	F562C	20F4963	1.38 (35.1)	1.88 (47.8)
SF250CX	F312C150	20F4563	1.00 (25.4)	2.13 (54.1)
SF250CX	F1000C43	43F41663	1.75 (44.5)	2.75 (69.9)
SF375CX	SF375CX	20FX6666	0.75 (19.1)	1.75 (44.5)
SF375CX	SF562CX	20F6966	1.00 (25.4)	2.00 (50.8)
SF375CX	SF750CX	20F61266	1.38 (35.1)	2.25 (57.2)
SF375CX	SF1000CX	20F61666	1.75 (44.5)	2.88 (73.0)
SF375CX	F250C	20F6463	0.75 (19.1)	1.63 (41.4)
SF375CX	F375C	20F6663	1.00 (25.4)	2.00 (50.8)
SF375CX	F562C	20F6963	1.38 (35.1)	2.00 (50.8)
SF375CX	F312C150C	20F6563	1.00 (25.4)	2.25 (57.2)
SF375CX	F1000C43	43F61663	1.75 (44.5)	2.88 (73.0)
SF562CX	SF562CX	20FX9966	1.00 (25.4)	2.13 (54.1)
SF562CX	SF750CX	20F91266	1.38 (35.1)	2.50 (63.5)
SF562CX	SF1000CX	20F91666	1.75 (44.5)	3.00 (76.2)
SF562CX	F250C	20F9463	1.00 (25.4)	2.00 (50.8)
SF562CX	F375C	20F9663	1.00 (25.4)	2.00 (50.8)
SF562CX	F562C	20F9963	1.38 (35.1)	2.25 (57.2)
SF562CX	F312C150C	20F9563	1.00 (25.4)	2.50 (63.5)

Connection	Connection	Connection Catalog Dimensi "B" Number A Hex	Dimension i	on inches (mm)	
"A"	"В"		A Hex	В	
SF750CX	SF750CX	20FX12	1.38 (35.1)	2.50 (63.5)	
SF750CX	SF1000CX	20F121666	1.75 (44.5)	3.00 (76.2)	
SF750CX	F250C	20F12463	1.38 (35.1)	2.50 (63.5)	
SF750CX	F375C	20F12663	1.38 (35.1)	2.38 (60.33)	
SF750CX	F562C	20F12963	1.38 (35.1)	2.75 (69.9)	
SF750CX	F312C150	20F12563	1.38 (35.1)	2.75 (69.9)	
SF1000CX	SF1000CX	20FX16	1.75 (44.5)	3.50 (88.9)	
SF1000CX	F250C	20F16463	1.75 (44.5)	2.75 (69.9)	
SF1000CX	F375C	20F16663	1.75 (44.5)	2.88 (73.0)	
SF1000CX	F562C	20F16963	1.75 (44.5)	3.25 (82.6)	
SF1000CX	F312C150	20F16563	1.75 (44.5)	3.25 (82.6)	



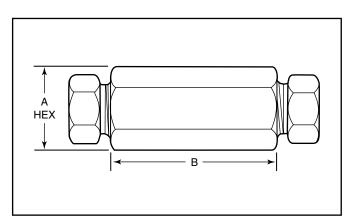
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Connection	Connection	Catalog	Dimension i	nches (mm)
"A"	"В"	Number	A Hex	В
F250C	F250C	60F4433	0.75 (19.1)	1.38 (35.1)
F250C	F375C	60F4633	1.00 (25.4)	1.63 (41.4)
F250C	F562C	60F4933	1.38 (35.1)	1.75 (44.5)
F250C	F312C150	60F4533	1.00 (25.4)	2.00 (50.8)
F250C	F1000C43	43F41633	1.75 (44.5)	2.75 (69.9)
F375C	F375C	60F6633	1.00 (25.4)	1.75 (44.5)
F375C	F562C	60F6933	1.38 (35.1)	2.00 (50.8)
F375C	F312C150	60F6533	1.00 (25.4)	2.25 (57.2)
F375C	F1000C43	43F61633	1.75 (44.5)	2.88 (73.0)
F562C	F562C	60F9933	1.38 (35.1)	2.19 (55.6)
F562C40	F562C40	40F9933	1.38 (35.1)	2.19 (55.6)
F562C	F312C150	60F9533	1.19 (30.1)	2.63 (66.7)
F562C	SF1000C43	43F91633	1.75 (44.5)	3.75 (82.6)
F312C150	F312C150	150F5533	1.38 (35.1)	2.50 (63.5)
F1000C43	F1000C43	43F16	1.75 (44.5)	3.50 (88.9)

Coupling Dimensions - High Pressure |



Coupling Dimensions - National Pipe Thread (NPT)

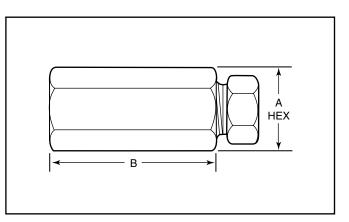
Connection	Connection	Catalog	Dimension i	nches (mm)
"A"	"В"	Number	A Hex	В
1/8 NPT	W125	15F2281	0.63 (15.9)	1.38 (35.1)
1/8 NPT	SW250	15F2482	0.63 (15.9)	1.50 (38.1)
1/8 NPT	SW375	15F2682	0.75 (19.1)	1.63 (41.4)
1/8 NPT	SW500	10F2882	1.00 (25.4)	1.50 (38.1)
1/8 NPT	SF250CX	15F2486	0.63 (15.9)	1.38 (35.1)
1/8 NPT	SF375CX	15F2686	0.75 (19.1)	1.50 (38.1)
1/8 NPT	SF562CX	15F2986	1.00 (25.4)	1.63 (41.4)
1/8 NPT	SF750CX	15F21286	1.38 (35.1)	1.75 (44.5)
1/8 NPT	F250C	15F2483	0.75 (19.1)	1.38 (35.1)
1/8 NPT	F375C	15F2683	1.00 (25.4)	1.63 (41.4)
1/8 NPT	F562C	15F2983	1.38 (35.1)	1.82 (46.2)
1/8 NPT	F312C150	15F2583	1.00 (25.4)	2.13 (54.1)

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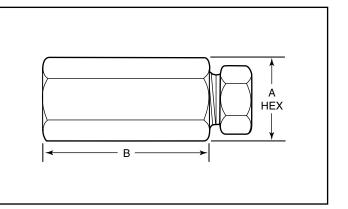
Connection	Connection	Catalog	Dimension i	nches (mm)
"A"	"В"	Number	A Hex	В
1/4 NPT	W125	15F4281	0.75 (19.1)	1.50 (38.1)
1/4 NPT	SW250	15F4482	0.75 (19.1)	1.63 (41.4)
1/4 NPT	SW375	15F4682	0.75 (19.1)	1.75 (44.5)
1/4 NPT	SW500	10F4882	1.00 (25.4)	2.00 (50.8)
1/4 NPT	SF250CX	15F4486	0.75 (19.1)	1.63 (41.4)
1/4 NPT	SF375CX	15F4686	0.75 (19.1)	1.75 (44.5)
1/4 NPT	SF562CX	15F4986	1.00 (25.4)	2.00 (50.8)
1/4 NPT	SF750CX	15F41286	1.38 (35.1)	1.75 (44.5)
1/4 NPT	SF1000CX	15F41686	1.38 (35.1)	2.38 (60.33)
1/4 NPT	F250C	15F4483	0.75 (19.1)	1.63 (41.4)
1/4 NPT	F375C	15F4683	1.00 (25.4)	1.88 (47.8)
1/4 NPT	F562C	15F4983	1.38 (35.1)	2.00 (50.8)
1/4 NPT	F312C150	15F4583	1.00 (25.4)	2.50 (63.5)



Coupling Dimensions - National Pipe Thread (NPT) - con't

Connection	Connection	Catalog	Dimension i	nches (mm)
"A"	"B"	Number	A Hex	В
3/8 NPT	W125	15F6281	1.00 (25.4)	1.63 (41.1)
3/8 NPT	SW250	15F6482	1.00 (25.4)	1.75 (44.5)
3/8 NPT	SW375	15F6682	1.00 (25.4)	1.88 (47.8)
3/8 NPT	SW500	10F6882	1.00 (25.4)	2.00 (50.8)
3/8 NPT	SF250CX	15F6486	0.94 (23.9)	1.63 (41.4)
3/8 NPT	SF375CX	15F6686	0.94 (23.9)	1.82 (46.2)
3/8 NPT	SF562CX	15F6986	1.00 (25.4)	2.00 (50.8)
3/8 NPT	SF750CX	15F61286	1.38 (35.1)	2.38 (60.33)
3/8 NPT	SF1000CX	15F61686	1.75 (44.5)	2.50 (63.5)
3/8 NPT	F250C	15F6483	1.00 (25.4)	1.63 (41.4)
3/8 NPT	F375C	15F6683	1.00 (25.4)	1.88 (47.8)
3/8 NPT	F562C	15F6983	1.38 (35.1)	2.00 (50.8)
3/8 NPT	F312C150	15F6583	1.00 (25.4)	2.25 (57.2
1/2 NPT	W125	15F8281	1.88 (47.8)	2.00 (50.8)
1/2 NPT	SW250	15F8482	1.88 (47.8)	2.13 (54.1)
1/2 NPT	SW375	15F8682	1.88 (47.8)	2.13 (54.1)
1/2 NPT	SW500	10F8882	1.19 (30.1)	2.25 (57.2)
1/2 NPT	SF250CX	15F8486	1.19 (30.1)	2.00 (50.8)
1/2 NPT	SF375CX	15F8686	1.19 (30.1)	2.13 (54.1)
1/2 NPT	SF562CX	15F8986	1.19 (30.1)	2.25 (57.2)
1/2 NPT	SF750CX	15F81286	1.38 (35.1)	2.63 (66.7)
1/2 NPT	SF1000CX	15F81686	1.75 (44.5)	3.00 (76.2)
1/2 NPT	F250C	15F8483	1.19 (30.1)	2.00 (50.8)
1/2 NPT	F375C	15F8683	1.19 (30.1)	2.13 (54.1)
1/2 NPT	F562C	15F8983	1.38 (35.1)	2.50 (63.5)
1/2 NPT	F312C150	15F8583	1.19 (30.1)	2.50 (63.5)

Connection	Connection	Connection Catalog "B" Number	Dimension inches (mm)	
"A"	"B"		A Hex	В
3/4 NPT	SW500	10F12882	1.38 (35.1)	2.50 (63.5)
3/4 NPT	SF375CX	10F12686	1.38 (35.1)	2.25 (57.2)
3/4 NPT	SF562CX	10F12986	1.38 (35.1)	2.25 (57.2)
3/4 NPT	SF750CX	10F121286	1.50 (38.1)	2.63 (66.7)
3/4 NPT	SF1000CX	10F121686	1.75 (44.5)	3.00 (76.2)
3/4 NPT	F562C	10F12983	1.38 (35.1)	2.38 (60.33)
1 NPT	SF562CX	10F16986	1.75 (44.5)	2.63 (66.7)
1 NPT	SF1000CX	10F161686	1.75 (44.5)	2.88 (73.0)
1 NPT	F250C	10F16483	1.88 (47.8)	2.38 (60.33)
1 NPT	F562C	10F16983	1.75 (44.5)	2.50 (63.5)



Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see selection chart.

All dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative.

NOTE: NPT (Pipe) connections

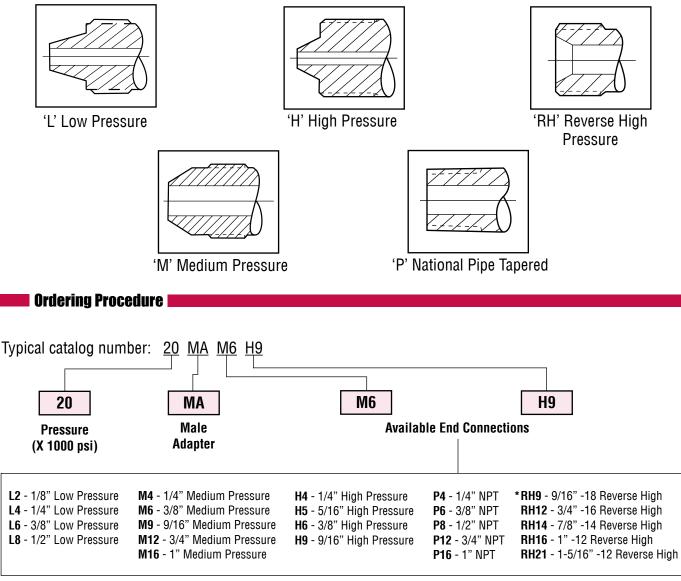
- NPT threads must be sealed using a high quality PTFE tape and/or PTFE paste product. Refer to thread sealant manufacturer's instructions on how to apply thread sealant.
- Sealing performance may vary based on many factors such as pressure, temperature, media, thread quality, thread material, proper thread engagement and proper use of thread sealant.
- Customer should limit the number of times an NPT fitting is assembled and disassembled because thread deformation during assembly will result in deteriorating seal quality over time. When using only PTFE tape, consider using thread lubrication to prevent galling of mating parts.

Adapters/Couplings - Male/Male Adapters

Parker Autoclave Engineer's standard male-to-male one piece adapters are available in low, medium, and high pressure configurations. Standard male-to-male adapters are machined from cold worked stainless steel. Other materials are available upon request. Contact your local Sales Representative for optional information. The following tables list our standard adapters with dimensions.



Adapter End Configuration



Note: Special material one piece adapters may be supplied with four flats in place of standard hex.

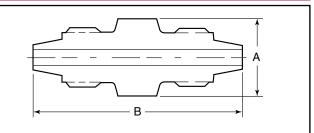
*RH9 & RH14 - 40,000 psi (2758 bar), RH12 - 30,000 psi (2068 bar), RH16 - 26,000 psi (1793 bar), RH21 - 20,000 psi (1379 bar).

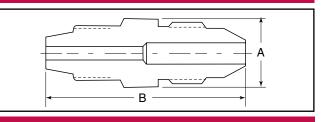
Low-Pressure to Low-Pressure Adapters

Catalog	Connection	Connection	Dimension inches (mm)		
Number	L/P	L/P	A Hex	В	
15MAL2L2	W125	W125	0.50 (12.7)	1.38 (34.9)	
15MAL2L4	W125	SW250	0.63 (15.9)	1.63 (41.3)	
15MAL4L4	SW250	SW250	0.63 (15.9)	1.88 (47.6)	
10MAL6L8	SW375	SW500	1.00 (25.4)	2.25 (57.1)	
10MAL8L8	SW500	SW500	1.00 (25.4)	2.13 (54.0)	

Low-Pressure to Medium-Pressure Adapters

Catalog	Connection	Connection	ction Connection Dimension inches		nches (mm)
Number	L/P	M/P	A Hex	В	
15MAL4M4	SW250	SF250CX	0.63 (15.9)	1.86 (47.3)	
10MAL8M9	SW500	SF562CX	1.00 (25.4)	2.44 (62.0)	





Low-Pressure to High-Pressure Adapters

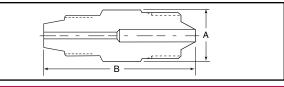
Catalog	Connection	Connection	Dimension inches (mm)	
Number	L/P	H/P	A Hex	В
15MAL2H4	W125	F250C	0.63 (15.9)	1.63 (41.3)
15MAL2H6	W125	F375C	0.90 (25.4)	2.00 (50.8)

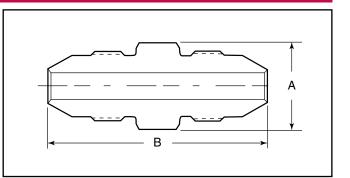
Medium-Pressure to Medium-Pressure Adapters

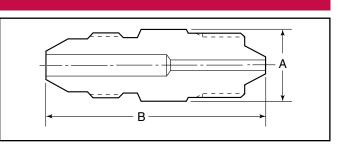
Catalog	Connection	Connection	Dimension i	nches (mm)	
Number	M/P	M/P	A Hex	В	
20MAM4M4	SF250CX	SF250CX	0.50 (12.7)	1.69 (42.9)	
20MAM4M6	SF250CX	SF375CX	0.63 (15.9)	1.88 (47.6)	
20MAM4M9	SF250CX	SF562CX	0.94 (23.8)	2.38 (60.3)	
20MAM4M12	SF250CX	SF750CX	1.19 (30.1)	2.69 (68.2)	
20MAM4M16	SF250CX	SF1000CX	1.38 (34.9)	3.38 (85.7)	
20MAM6M6	SF375CX	SF375CX	0.63 (15.9)	2.25 (57.1)	
20MAM6M9	SF375CX	SF562CX	0.94 (23.8)	2.38 (60.3)	
20MAM6M12	SF375CX	SF750CX	1.19 (30.1)	2.81 (71.4)	
20MAM6M16	SF375CX	SF1000CX	1.38 (34.9)	3.38 (85.7)	
20MAM9M9	SF562CX	SF562CX	0.94 (23.8)	2.50 (63.5)	
20MAM9M12	SF562CX	SF750CX	1.19 (30.1)	3.00 (76.2)	
20MAM9M16	SF562CX	SF1000CX	1.38 (34.9)	3.69 (93.72)	
20MAM12M12	SF750CX	SF750CX	1.19 (30.1)	3.13 (79.3)	
20MAM12M16	SF750CX	SF1000CX	1.38 (34.9)	3.81 (96.8)	
20MAM16M4	SF1000CX	SF250CX	1.38 (34.9)	3.25 (82.6)	
20MAM16M16	SF1000CX	SF1000CX	1.38 (34.9)	4.38 (111.1)	

Medium-Pressure to High-Pressure Adapters

Catalog Number	Connection M/P	Connection H/P	Dimension inches (mm) A Hex B			
	101/1	11/1	ATTEA	, D		
20MAM4H4	SF250CX	F250C	0.63 (15.9)	1.75 (44.5)		
20MAM4H6	SF250CX	F375C	0.81 (20.6)	2.13 (54.0)		
20MAM4H9	SF250CX	F562C	1.19 (30.1)	2.63 (66.7)		
20MAM6H4	SF375CX	F250C	0.63 (15.9)	1.94 (49.2)		
20MAM6H6	SF375CX	F375C	0.81 (20.6)	2.38 (60.3)		
20MAM6H9	SF375CX	F562C	1.19 (30.1)	2.69 (68.2)		
20MAM9H4	SF562CX	F250C	0.81 (20.6)	2.25 (57.1)		
20MAM9H6	SF562CX	F375C	0.81 (20.6)	2.56 (65.0)		
20MAM9H9	SF562CX	F562C	1.19 (30.1)	2.94 (74.6)		
20MAM12H4	SF750CX	F250C	1.19 (30.1)	2.63 (66.7)		
20MAM12H6	SF750CX	F375C	1.19 (30.1)	2.88 (73.0)		
20MAM12H9	SF750CX	F562C	1.19 (30.1)	3.00 (76.2)		
20MAM16H4	SF1000CX	F250C	1.38 (34.9)	3.25 (82.6)		
20MAM16H6	SF1000CX	F375C	1.38 (34.9)	3.50 (89.0)		
20MAM16H9	SF1000CX	F562C	1.38 (34.9)	3.69 (93.6)		







Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

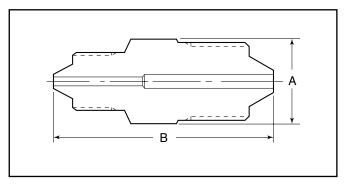
Note: For pressure rating see ordering procedure. All Dimensions for reference only and subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.

16

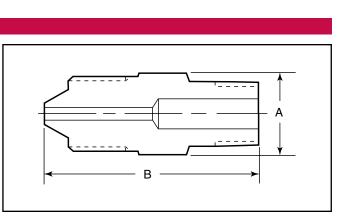
All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

Catalog	Connection	Connection	Dimension inches (mm)			
Number	•		A Hex	В		
40MAH9H9	40MAH9H9 F562C40		1.19 (30.1)	2.94 (74.6)		
60MAH4H4	F250C	F250C	0.63 (15.9)	1.69 (42.8)		
60MAH4H5	F250C	F312C150	0.75 (19.1)	2.63 (66.7)		
60MAH4H6	F250C	F375C	0.81 (20.6)	2.13 (54.0)		
60MAH4H9	F250C	F562C	1.19 (30.1)	2.56 (65.0)		
60MAH5H6	F312C150	F375C	0.81 (20.6)	2.81 (71.4)		
60MAH6H6	F375C	F375C	0.81 (20.6)	2.25 (57.1)		
60MAH6H9	F375C	F562C	1.19 (30.1)	2.88 (73.0)		
60MAH9H9	F562C	F562C	1.19 (30.1)	3.00 (76.2)		
150MAH5H5	F312C150	F312C150	0.75 (19.1)	3.38 (85.7)		



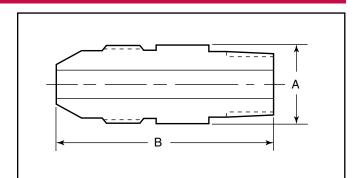
Low-Pressure to NPT Adapters

Catalog	Connection	Connection	Dimension inches (mm)		
Number	L/P	NPT	A Hex	В	
15MAL2P2	W125	1/8"	0.50 (12.7)	1.38 (34.9)	
15MAL2P4	W125	1/4"	0.63 (15.9)	1.63 (41.2)	
15MAL2P8	W125	1/2"	1.00 (25.4)	2.13 (54.0)	
15MAL4P8	SW250	1/2"	1.00 (25.4)	2.25 (57.1)	
15MAL4P2	SW250	1/8"	0.63 (15.9)	1.63 (41.2)	
15MAL4P4	SW250	1/4"	0.63 (15.9)	1.75 (44.5)	
15MAL6P4	SW375	1/4"	0.75 (19.1)	1.88 (47.6)	
15MAL6P8	SW375	1/2"	1.00 (25.4)	2.25 (57.1)	
10MAL8P6	SW500	3/8"	1.00 (25.4)	2.00 (50.0)	
10MAL8P8	SW500	1/2"	1.00 (25.4)	2.31 (58.7)	
10MAL8P12	SW500	3/4"	1.19 (30.1)	2.38 (60.3)	



Medium-Pressure to NPT Adapters

Catalog	Connection	Connection	Dimension inches (mm)		
Number	M/P	NPT	A Hex	В	
15MAM4P4	SF250CX	1/4"	0.63 (15.9)	1.75 (44.5)	
15MAM4P6	SF250CX	3/8"	0.75 (19.1)	1.81 (46.2)	
15MAM4P8	SF250CX	1/2"	0.94 (23.8)	2.19 (55.5)	
15MAM6P4	SF375CX	1/4"	0.63 (15.9)	1.94 (49.1)	
15MAM6P6	SF375CX	3/8"	0.75 (19.1)	2.00 (50.8)	
15MAM6P8	SF375CX	1/2"	0.94 (23.8)	2.38 (60.3)	
15MAM9P4	SF562CX	1/4"	0.81 (20.6)	2.25 (57.1)	
15MAM9P6	SF562CX	3/8"	0.81 (20.6)	2.13 (54.0)	
15MAM9P8	SF562CX	1/2"	0.94 (23.8)	2.56 (65.0)	
10MAM9P12	SF562CX	3/4"	1.19 (30.1)	2.75 (69.9)	
10MAM9P16	SF562CX	1"	1.38 (34.9)	3.00 (76.2)	
15MAM12P4	SF750CX	1/4"	. ,	2.63 (66.7)	
15MAM12P6	SF750CX	3/8"		2.63 (66.7)	
15MAM12P8	SF750CX	1/2"	1.19 (30.1)	2.81 (71.4)	
10MAM12P12	SF750CX	3/4"	1.19 (30.1)	2.81 (71.4)	
10MAM12P16	SF750CX	1"	1.19 (30.1)	2.81 (71.4)	
15MAM16P4	SF1000CX	1/4"	1.38 (34.9)	3.38 (85.7)	
15MAM16P6	SF1000CX	3/8"	1.38 (34.9)	3.31 (84.1)	
15MAM16P8	SF1000CX	1/2"	1.38 (34.9)	3.44 (87.3)	
10MAM16P12	SF1000CX	3/4"	1.50 (38.1)	3.75 (95.3)	
10MAM16P16	SF1000CX	1"	1.50 (38.1)	4.00 (101.6)	



NOTE: NPT (Pipe) connections

- NPT threads must be sealed using a high quality PTFE tape and/or PTFE paste product. Refer to thread sealant manufacturer's instructions on how to apply thread sealant.
- Sealing performance may vary based on many factors such as pressure, temperature, media, thread quality, thread material, proper thread engagement and proper use of thread sealant.
- Customer should limit the number of times an NPT fitting is assembled and disassembled because thread deformation during assembly will result in deteriorating seal quality over time. When using only PTFE tape, consider using thread lubrication to prevent galling of mating parts.

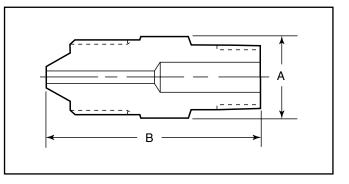
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High-Pressure to NPT Adapters

Catalog	Connection	Connection	Dimension inches (mm)			
Number	a		A Hex	В		
15MAH4P4	F250C	1/4"	0.63 (15.9)	1.81 (46.2)		
15MAH4P6	F250C	3/8"	0.75 (19.1)	1.88 (47.6)		
15MAH4P8	F250C	1/2"	0.94 (23.8)	2.25 (57.1)		
15MAH6P4	F375C	1/4"	0.81 (20.6)	2.13 (54.0)		
15MAH6P6	F375C	3/8"	0.81 (20.6)	2.13 (54.0)		
15MAH6P8	F375C	1/2"	0.94 (23.8)	2.50 (63.5)		
15MAH9P4	F562C	1/4"	1.19 (30.1)	2.63 (66.7)		
15MAH9P6	F562C	3/8"	1.19 (30.1)	2.56 (65.0)		
15MAH9P8	F562C	1/2"	1.19 (30.1)	2.75 (69.9)		



NPT to NPT Adapters

Catalog	Connection	Connection	Dimension inches (mm)			
Number	NPT	NPT	A Hex	В		
15MAP4P4	1/4	1/4"	0.63 (15.9)	1.81 (46.2)		
15MAP4P6	1/4	3/8"	0.75 (19.1)	1.88 (47.6)		
15MAP4P8	1/4	1/2"	0.94 (23.8)	2.31 (58.7)		
15MAP6P6	3/8	3/8"	0.75 (19.1)	1.88 (47.6)		
15MAP6P8	3/8	1/2"	0.94 (23.8)	2.31 (58.7)		
15MAP8P8	1/2	1/2"	0.94 (23.8)	2.50 (63.5)		

Medium-Pressure to Reverse High-Pressure Adapters

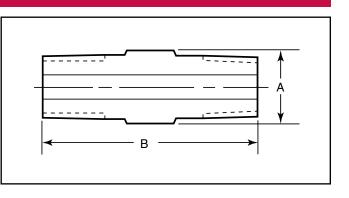
Catalog	Connection	Connection	Dimension inches (mm)		
Number	M/P	RH	A Hex	В	
20MAM4RH9	SF250CX	9/16"	0.63 (15.9)	1.56 (39.7)	
20MAM4RH12	SF250CX	3/4"	0.81 (20.6)	1.88 (47.6)	
20MAM4RH16	SF250CX	1"	1.00 (25.4)	2.13 (54.0)	
20MAM6RH9	SF375CX	9/16"	0.63 (15.9)	1.69 (42.8)	
20MAM6RH12	SF375CX	3/4"	0.81 (20.6)	1.81 (46.2)	
20MAM6RH16	SF375CX	1"	1.00 (25.4)	2.25 (57.1)	
20MAM9RH9	SF562CX	9/16"	0.94 (23.8)	2.00 (50.8)	
20MAM9RH12	SF562CX	3/4"	0.94 (23.8)	2.13 (54.0)	
20MAM9RH14	SF562CX	7/8"	0.94 (23.8)	2.44 (61.9)	
20MAM9RH16	SF562CX	1"	1.00 (25.4)	2.25 (57.1)	
20MAM9RH21	SF562CX	1-5/16"	1.38 (34.9)	2.38 (60.3)	
20MAM12RH9	SF750CX	9/16"	1.19 (30.1)	2.38 (60.3)	
20MAM12RH12	SF750CX	3/4"	1.19 (30.1)	2.44 (61.9)	
20MAM12RH16	SF750CX	1"	1.19 (30.1)	2.50 (63.5)	
20MAM12RH21	SF750CX	1-5/16"	1.50 (38.1)	2.75 (69.9)	
20MAM16RH9	SF1000CX	9/16"	1.38 (34.9)	3.13 (79.3)	
20MAM16RH12	SF1000CX	3/4"	1.38 (34.9)	3.19 (80.9)	
20MAM16RH14	SF1000CX	7/8"	1.38 (34.9)	3.34 (84.9)	
20MAM16RH16	SF1000CX	1"	1.38 (34.9)	3.38 (85.7)	
20MAM16RH21	SF1000CX	1-5/16"	1.50 (38.1)	3.25 (82.6)	

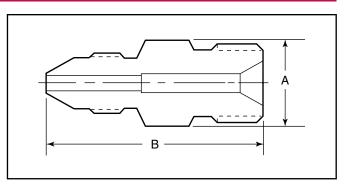
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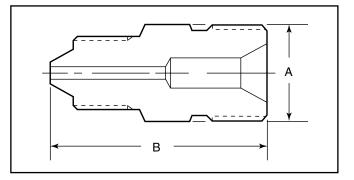


NOTE: NPT (Pipe) connections

- NPT threads must be sealed using a high quality PTFE tape and/or PTFE paste product. Refer to thread sealant manufacturer's instructions on how to apply thread sealant.
- Sealing performance may vary based on many factors such as pressure, temperature, media, thread quality, thread material, proper thread engagement and proper use of thread sealant.
- Customer should limit the number of times an NPT fitting is assembled and disassembled because thread deformation during assembly will result in deteriorating seal quality over time. When using only PTFE tape, consider using thread lubrication to prevent galling of mating parts.

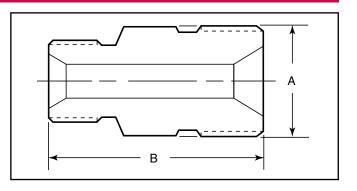
High-Pressure to Reverse High-Pressure Adapters

Catalog	Connection	Connection	Dimension inches (mm)			
Number	H/P	RH	A Hex	В		
26MAH4RH16	F250C	1"	1.00 (25.4)	2.13 (54.0)		
26MAH6RH16	F375C	1"	1.00 (25.4)	2.25 (57.1)		
26MAH9RH16	F562C	1"	1.19 (30.1)	2.69 (68.2)		
30MAH4RH12	F250C	3/4"	0.81 (20.6)	1.88 (47.6)		
30MAH6RH12	F375C	3/4"	0.81 (20.6)	2.06 (54.0)		
30MAH9RH12	F562C	3/4"	1.19 (30.1)	2.50 (63.5)		
40MAH4RH9	F250C	9/16"	0.63 (15.9)	1.56 (39.7)		
40MAH6RH9	F375C	9/16"	0.81 (20.6)	1.94 (49.1)		
40MAH9RH9	F562C	9/16"	1.19 (30.1)	2.38 (60.3)		



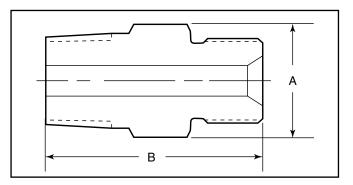
Reverse High-Pressure to Reverse High-Pressure Adapters

Catalog	Connection	Connection	Dimension inches (mm)			
Number	RH	RH	A Hex	В		
20MARH21RH21	1-5/16	1-5/16"	1.38 (34.9)	2.13 (54.1)		
26MARH9RH16	9/16	1"	1.00 (25.4)	1.88 (47.6)		
26MARH12RH16	3/4	1"	1.00 (25.4)	2.00 (50.8)		
26MARH16RH16	1	1"	1.00 (25.4)	2.00 (50.8)		
30MARH9RH12	9/16	3/4"	0.81 (20.6)	1.63 (41.2)		
30MARH12RH12	3/4	3/4"	0.81 (20.6)	1.75 (44.5)		
40MARH9RH9	9/16	9/16"	0.63 (15.9)	1.50 (38.1)		



NPT to Reverse High-Pressure Adapters

Catalog	Connection	Connection	Dimension inches (mm)		
Number	NPT	RH	A Hex	В	
15MAP4RH9	1/4	9/16"	0.63 (15.9)	1.63 (41.2)	
15MAP4RH12	1/4	3/4"	0.81 (20.6)	1.88 (47.6)	
15MAP4RH16	1/4	1"	1.00 (25.4)	2.25 (57.1)	
15MAP6RH9	3/8	9/16"	0.75 (19.1)	1.81 (46.2)	
15MAP6RH12	3/8	3/4"	0.81 (20.6)	1.94 (49.1)	
15MAP6RH16	3/8	1"	1.00 (25.4)	2.13 (54.0)	
15MAP8RH9	1/2	9/16"	0.94 (23.8)	2.00 (50.8)	
15MAP8RH12	1/2	3/4"	0.94 (23.8)	2.13 (54.0)	
15MAP8RH14	1/2	7/8"	1.00 (25.4)	2.25 (57.1)	
15MAP8RH16	1/2	1"	1.00 (25.4)	2.31 (58.7)	
10MAP12RH12	3/4	3/4"	1.19 (30.1)	2.31 (58.7)	
10MAP12RH16	3/4	1"	1.38 (34.9)	2.63 (66.7)	
10MAP12RH21	3/4	1-5/16"	1.38 (34.9)	2.63 (66.7)	
10MAP16RH9	1	9/16"	1.38 (34.9)	2.25 (57.2)	
10MAP16RH16	1	1"	1.38 (34.9)	2.81 (71.4)	
10MAP16RH21	1	1-5/16"	1.38 (34.9)	2.68 (68.0)	



Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see ordering procedure.

All Dimensions for reference only and are subject to change.

Male/Female Adapters - **QSS Male/Female Adapters**

Male /female adapters are designed to adapt a female connection to another size and/or type of connection without the need for additional couplings. In selecting an adapter involving two different sized connections, the larger connection should be on the male end where it is possible to maximize the mechanical strength of the adapter.

Materials

All Parker Autoclave Engineers adapters are precision machined from cold-worked Type 316 stainless steel.

To use this chart:

- 1. Locate MALE end in vertical column.
- 2. Locate desired FEMALE end of adapter across top of chart.
- 3. Catalog number of required adapter is located at
- intersection of columns.
- 4. For one piece adapter add-OP to suffix of part number.

							FE	MALE END)				
			Connectio	n			k Set				Medium Pressu	-	
			Size and Ty		1/4" QS250	3/8" QS375	9/16" QS562	3/4" QS750	1/4" SF250CX	3/8" SF375CX	9/16" SF562CX	3/4" SF750CX	1" SF1000CX
			Fits this Female Connection	Pressure Rating PSI (bar)*	15,000 (1034.20)	15,000 (1034.20)	15,000 (1034.20)	15,000 (1034.20)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)
		1/4"	Q\$250	15,000 (1034.20)		15M46QQ	15M49QQ	15M412QQ	15M44Q6	15M46Q6	15M49Q6	15M412Q6	15M416Q6
	Quick Set	3/8"	Q\$375	15,000 (1034.20)	15M64QQ		15M69QQ	15M612QQ	15M64Q6	15M66Q6	15M69Q6	15M612Q6	15M616Q6
	Quic	9/16"	Q\$562	15,000 (1034.20)	15M94QQ	15M94QQ		15M912QQ	15M94Q6	15M96Q6	15M99Q6	15M912Q6	15M916Q6
		3/4"	Q\$750	15,000 (1034.20)	15M124QQ	15M126QQ	15M129QQ		15M124Q6	15M126Q6	15M129Q6	15M1212Q6	15M1216Q6
	e	1/4"	SF250CX	20,000 (1378.93)	15M44KQ	15M46KQ	15M49KQ	15M412KQ					
END	Medium Pressure	3/8"	SF375CX	20,000 (1378.93)	15M64KQ	15M66KQ	15M69KQ	15M612KQ					
MALE	ım Pr	9/16"	SF562CX	20,000 (1378.93)	15M94KQ	15M96KQ	15M99KQ	15M912KQ					
MA	Mediu	3/4"	SF750CX	20,000 (1378.93)	15M124KQ	15M126KQ	15M129KQ	15M1212KQ					
		1"	SF1000CX	20,000 (1378.93)	15M164KQ	15M166KQ	15M169KQ	15M1612KQ					
	Pressure	1/4"	F250C	60,000 (4136.85)	15M44BQ	15M46BQ	15M49BQ	15M412BQ					
	Pres	3/8"	F375C	60,000 (4136.85)	15M64BQ	15M66BQ	15M69BQ	15M612BQ					
	High	9/16"	F562C	60,000 (4136.85)	15M94BQ	15M96BQ	15M99BQ	15M912BQ					
	IPT)	1/4"	NPT	15,000 (1034.20)	15M44NQ	15M46NQ	15M49NQ	15M412NQ					
	read (N	3/8"	NPT	15,000 (1034.20)	15M64NQ	15M66NQ	15M69NQ	15M612NQ					
	ipe Thı	1/2"	NPT	15,000 (689.45)	15M84NQ	15M86NQ	15M89NQ	15M812NQ					
	National Pipe Thread (NPT)	3/4"	NPT	10,000 (689.45)	10M124NQ	10M126NQ	10M129NQ	10M1212NQ					
	Nat	1"	NPT	10,000 (689.45)	10M164NQ	10M166NQ	10M169NQ	10M1612NQ					

Note:

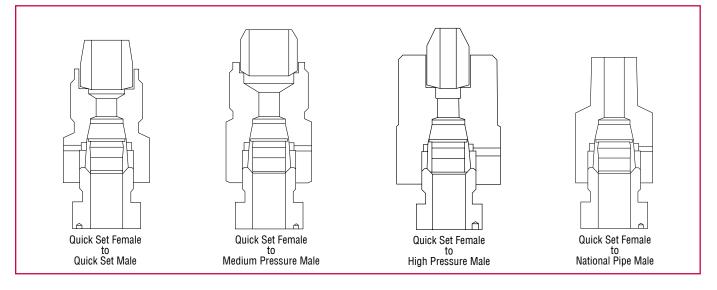
All Parker Autoclave Engineers adapters are supplied complete with appropriate gland nuts and sleeves unless specified without. * The maximum pressure rating for an adapter is determined by the connection component with the

* The maximum pressure rating for an adapter is determined by the connection component with the LOWEST pressure rating; that is, the two end connections and the tubing or pipe used, whichever is LOWER.

CAUTION: See appropriate pressure section in reference to proper selection of tubing

NOTE: NPT (Pipe) connections

- NPT threads must be sealed using a high quality PTFE tape and/or PTFE paste product. Refer to thread sealant manufacturer's instructions on how to apply thread sealant.
- Sealing performance may vary based on many factors such as pressure, temperature, media, thread quality, thread material, proper thread engagement and proper use of thread sealant.
- Customer should limit the number of times an NPT fitting is assembled and disassembled because thread deformation during assembly will result in deteriorating seal quality over time. When using only PTFE tape, consider using thread lubrication to prevent galling of mating parts.



	FEMALE END						
High Pressure			National Pipe Thread (NPT)				
1/4" F250C	3/8" F375C	9/16" F562C	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT
60,000 (4136.85)	60,000 (4136.85)	150,000 (10342.14)	15,000 (1034.20)	15,000 (1034.20)	15,000 (1034.20)	10,000 (689.45)	10,000 (689.45)
15M44Q3	15M46Q3	15M49Q3	15M44Q8	15M46Q8	15M48Q8	10M412Q8	10M416Q8
15M64Q3	15M66Q3	15M69Q3	15M64Q8	15M66Q8	15M68Q8	10M612Q8	10M616Q8
15M94Q3	15M96Q3	15M99Q3	15M94Q8	15M96Q8	15M98Q8	10M912Q8	10M916Q8
15M124Q3	15M126Q3	15M129Q3	15M124Q8	15M126Q8	15M128Q8	10M1212Q8	10M1216Q8

AE Male/Female Adapters are available in a "one-piece" design. They are identical to the two piece designs in length and can be ordered by adding the suffix - OP to the two piece adapter part numbers listed.

QS Series

Male End	Female	Catalog Number	Dimension inches (mm)			
Fits this Connection	End		A Hex	В		
QS250	QS250					
QS250	QS375	15M46QQ				
QS250	QS562	15M49QQ	1.38 (34.9)	2.25 (57.1)		
QS250	QS750	15M412QQ				
QS250	SF250CX	15M44Q6				
QS250	SF375CX	15M46Q6				
QS250	SF562CX	15M49Q6				
QS250	SF750CX	15M412Q6				
QS250	SF1000CX	15M416Q6				
QS250	F250C	15M44Q3				
QS250	F375C	15M46Q3				
QS250	F562C	10M49Q3				
QS250	1/4 NPT	15M44Q8	0.75 (19.1)	1.69 (42.9)		
QS250	3/8 NPT	15M46Q8				
QS250	1/2 NPT	15M48Q8				
QS250	3/4 NPT	10M412Q8				
QS250	1 NPT	10M416Q8				
QS375	QS250	15M64QQ	0.75 (19.1)	1.53 (38.9)		
QS375	QS375					
QS375	QS562	15M69QQ				
QS375	QS750	15M612QQ	1.50 (38.1)	2.78 (70.6)		
QS375	SF250CX	15M64Q6				
QS375	SF375CX	15M66Q6	0.75 (19.1)	1.66 (42.2)		
QS375	SF562CX	15M69Q6	1.00 (25.4)	1.78 (45.2)		
QS375	SF750CX	15M612Q6				
QS375	SF1000CX	15M616Q6				
QS375	F250C	15M64Q3				
QS375	F375C	15M66Q3				
QS375	F562C	15M69Q3				
QS375	1/4 NPT	15M64Q8	0.75 (19.1)	1.66 (42.2)		
QS375	3/8 NPT	15M66Q8	1.00 (25.4)	1.78 (45.3)		
QS375	1/2 NPT	15M68Q8	1.19 (30.1)	2.16 (54.8)		
QS375	3/4 NPT	10M612Q8				
QS375	1 NPT	10M616Q8				

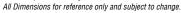
Male End	Female	Catalog	Dimension inches (mm)		
Fits this	End	Number	A Hex	В	
Connection				-	
QS562	QS250	15M94QQ	1.00 (25.4)	1.85 (46.8)	
QS562	QS375	15M96QQ	1.00 (25.4)	1.85 (46.8)	
QS562	QS562				
QS562	QS750	15M912QQ	1.50 (38.1)	3.16 (80.3)	
QS562	SF250CX	15M94Q6			
QS562	SF375CX	15M96Q6			
QS562	SF562CX	15M99Q6			
QS562	SF750CX	15M912Q6			
QS562	SF1000CX	15M916Q6			
QS562	F250C	15M94Q3			
QS562	F375C	15M96Q3			
QS562	F562C	15M99Q3			
QS562	1/4 NPT	15M94Q8	1.19 (30.1)	2.22 (56.4)	
QS562	3/8 NPT	15M96Q8	1.19 (30.1)	2.22 (56.4)	
QS562	1/2 NPT	15M98Q8	1.19 (30.1)	2.41 (61.1)	
QS562	3/4 NPT	10M912Q8			
QS562	1 NPT	10M916Q8			
QS750	QS250	15M124QQ			
QS750	QS375	15M126QQ	1.50 (38.1)	2.53 (64.1)	
QS750	QS562	15M129QQ	1.50 (38.1)	2.53 (64.1)	
QS750	QS750				
QS750	SF250CX	15M124Q6			
QS750	SF375CX	15M126Q6			
QS750	SF562CX	15M129Q6			
QS750	SF750CX	15M1212Q6			
QS750	SF1000CX	15M1216Q6			
QS750	F250C	15M124Q3			
QS750	F375C	15M126Q3			
QS750	F562C	15M129Q3			
QS750	1/4 NPT	15M124Q8			
QS750	3/8 NPT	15M126Q8			
QS750	1/2 NPT	15M128Q8	1.50 (38.1)	2.78 (70.5)	
QS750	3/4 NPT	10M1212Q8			
QS750	1 NPT	10M1216Q8			

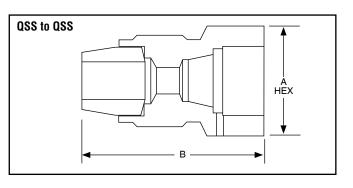
For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.

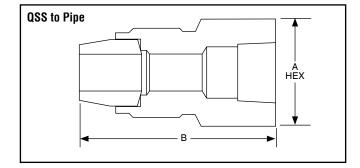
Maximum pressure rating is based on the lowest rating of any component.

Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see selection chart.



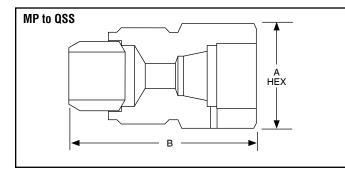




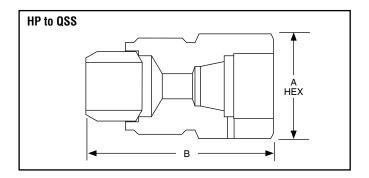
QS Series

Male End	Female End	Catalog Number	Dimension inches (mm)			
Fits this Connection			A Hex	В		
Connection						
SF250CX	QS250	15M44KQ	0.75 (19.1)	1.68 (42.7)		
SF250CX	QS375	15M46KQ	0.81 (20.6)	1.68 (42.7)		
SF250CX	QS562	15M49KQ	1.19 (30.1)	2.22 (56.4)		
SF250CX	QS750	15M412KQ				
SF375CX	QS250	15M64KQ	0.75 (19.1)	1.63 (41.4)		
SF375CX	QS375	15M66KQ	0.81 (20.6)	1.81 (46.1)		
SF375CX	QS562	15M69KQ				
SF375CX	QS750	15M612KQ	1.50 (38.1)	3.00 (76.20)		
SF562CX	QS250	15M94KQ	0.94 (23.8)	1.75 (44.5)		
SF562CX	QS375	15M96KQ	0.94 (23.8)	1.75 (44.5)		
SF562CX	QS562	15M99KQ	1.38 (34.9)	2.50 (63.5)		
SF562CX	QS750	15M912KQ	1.50 (38.1)	3.25 (82.6)		
SF750CX	QS250	15M124KQ				
SF750CX	QS375	15M126KQ				
SF750CX	QS562	15M129KQ				
SF750CX	QS750	15M1212KQ	1.50 (38.1)	3.06 (77.7)		
SF1000CX	QS250	15M164KQ				
SF1000CX	QS375	15M166KQ				
SF1000CX	QS562	15M169KQ	1.50 (38.1)	2.88 (73.0)		
SF1000CX	QS750	15M1612KQ	1.50 (38.1)	3.38 (85.7)		

Male End	Female End	Catalog Number	Dimension inches (mm)		
Fits this Connection			A Hex	В	
F250C	QS250	15M44BQ	0.75 (19.1)	1.31 (33.3)	
F250C	QS375	15M46BQ	0.81 (20.6)	1.56 (39.7)	
F250C	QS562	15M49BQ			
F250C	QS750	15M412BQ			
F375C	QS250	15M64BQ			
F375C	QS375	15M66BQ	0.81 (20.6)	1.69 (42.9)	
F375C	QS562	15M69BQ			
F375C	QS750	15M612BQ			
F562C	QS250	15M94BQ	1.19 (30.1)	1.81(46.1)	
F562C	QS375	15M96BQ	1.19 (30.1)	1.69 (42.9)	
F562C	QS562	15M99BQ	1.38 (34.9)	2.32 (58.8)	
F562C	QS750	15M912BQ	1.50 (38.1)	3.06 (77.7)	

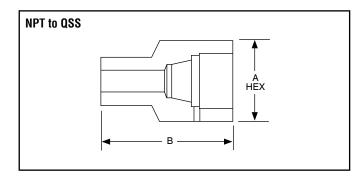


Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower. Note: For pressure rating see selection chart. *All Dimensions for reference only and subject to change. Adapter configurations may vary from outline shown.*



QS Series

Male End	Female	Catalog	Dimension i	nches (mm)
Fits this Connection	End	Number	A Hex	В
1/4 NPT	QS250	15M44NQ	0.75 (19.1)	1.44 (36.5)
1/4 NPT	QS375	15M46NQ	0.81 (20.6)	1.63 (41.3)
1/4 NPT	QS562	15M49NQ		
1/4 NPT	QS750	15M412NQ		
3/8 NPT	QS250	15M64NQ	0.75 (19.1)	1.50 (38.1)
3/8 NPT	QS375	15M66NQ	0.81 (20.6)	1.63 (41.3)
3/8 NPT	QS562	15M69NQ	1.38 (35.1)	2.13 (53.5)
3/8 NPT	QS750 15M612NQ			
1/2 NPT	QS250	15M84NQ	0.94 (23.8)	1.75 (44.5)
1/2 NPT	QS375	15M86NQ	0.94 (23.8)	1.63 (41.3)
1/2 NPT	QS562	15M89NQ	1.38 (35.1)	2.25 (57.2)
1/2 NPT	QS750	15M812NQ	1.50 (38.1)	2.81 (71.4)
3/4 NPT	QS250	10M124NQ		
3/4 NPT	QS375	10M126NQ		
3/4 NPT	QS562	10M129NQ	1.38 (35.1)	2.38 (60.3)
3/4 NPT	QS750	10M1212NQ	1.50 (38.1)	2.81 (71.4)
1 NPT	QS250	10M164NQ		
1 NPT	QS275	10M166NQ		
1 NPT	QS562	10M169NQ	1.50 (38.1)	2.38 (60.3)
1 NPT	QS750	10M1612NQ	1.50 (38.1)	2.38 (60.3)



Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower. Note: For pressure rating see selection chart.

All Dimensions for reference only and subject to change.

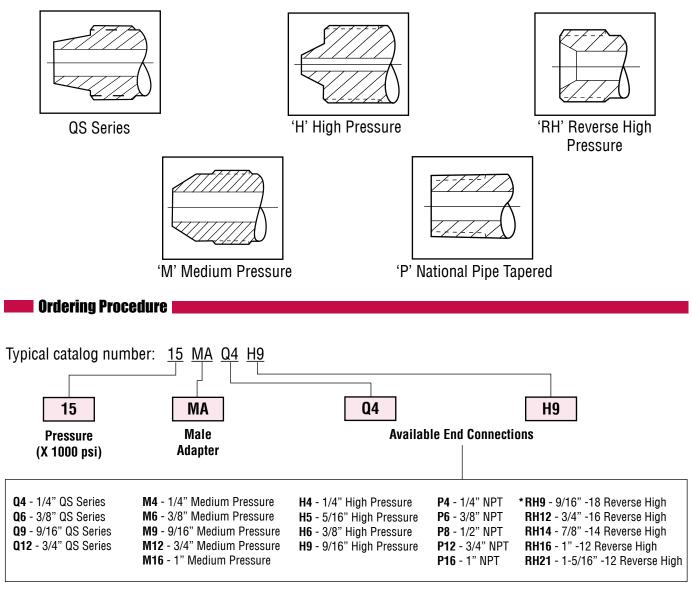
Adapter configurations may vary from outline shown.

Male/Male Adapters - **QSS Male/Male Adapters**

Parker Autoclave Engineer's standard male-to-male one piece adapters are available in multiple configurations. Standard male-to-male adapters are machined from cold worked stainless steel.Contact your local Sales Representative for optional information. The following tables list our standard adapters with dimensions.



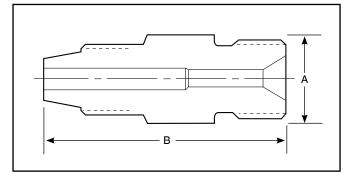
Adapter End Configuration



*RH9 & RH14 - 40,000 psi (2758 bar), RH12 - 30,000 psi (2068 bar), RH16 - 26,000 psi (1793 bar), RH21 - 20,000 psi (1379 bar).

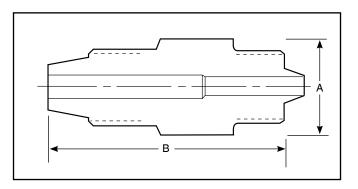
QS Series to Reverse High-Pressure Adapters

Catalog	Connection	Connection	Dimension i	nches (mm)
Number	QS	RH	A Hex	В
15MAQ4RH9	QS250	9/16"	0.63 (15.9)	1.70 (43.2)
15MAQ6RH9	QS375	9/16"	0.75 (19.1)	1.81 (46.2)
15MAQ9RH9	QS562	9/16"	1.19 (30.1)	2.25 (57.1)
15MAQ9RH12	QS562	3/4"	1.19 (30.1)	2.38 (60.3)
15MAQ9RH16	QS562	1"	1.19 (30.1) 2.56 (65	



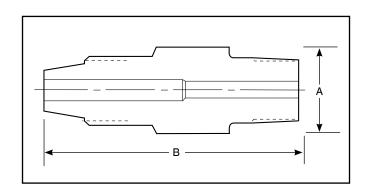
QS Series to High-Pressure Adapter

Catalog	Connection	Connection	Dimension i	nches (mm)
Number	QS	H/P	A Hex	В
15MAQ9H4	QS562	1/4"	0.75 (19.1)	2.00 (50.8)



QS Series to NPT Adapter

Catalog	Connection	Connection	Dimension inches (mm)		
Number	QS	NPT	A Hex	В	
15MAQ6P4	QS375	1/4"	0.75 (19.1) 2.00 (50.		

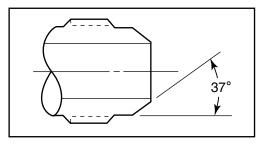


Adapters/Couplings - Male/Male JIC Adapters

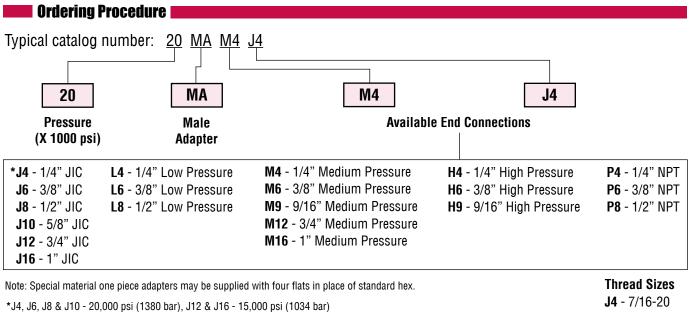
Parker Autoclave Engineer's male-to-male JIC one-piece adapters are available in low, medium, and high pressure configurations. JIC adapters are machined from cold worked stainless steel. Other materials are available upon request. Contact your local Sales Representative for optional information. The following tables list our standard adapters with dimensions.



Adapter End Configuration



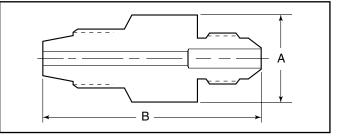
JIC connections consist of a 37° angle.



J6 - 9/16-18 J8 - 3/4-16 J10 - 7/8-14 J12 - 1-1/16-12 J16 - 1-5/16-12

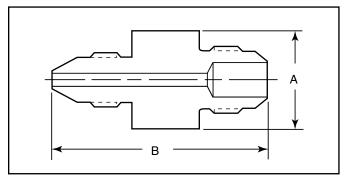
Low-Pressure to JIC Adapters

Catalog	Connection	Connection	Dimension ir	nches (mm)
Number	L/P	JIC	A Hex	В
15MAL4J4	SW250	1/4"	0.75 (19.1) 1.88 (47	
15MAL6J6	SW375	3/8"	0.81 (20.6) 2.00 (50.5	



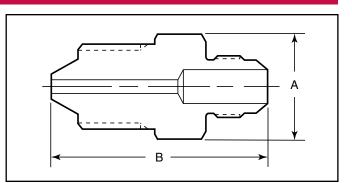
Medium-Pressure to JIC Adapters

Catalog	Connection	Connection	Dimension i	nches (mm)
Number	M/P	JIC	A Hex	В
15MAM4J12	SF250CX	3/4"	1.38 (34.9)	2.25 (57.1)
15MAM4J16	SF250CX	1"	1.50 (38.1)	2.38 (60.3)
15MAM6J12	SF375CX	3/4"	1.38 (34.9)	2.44 (61.3)
15MAM6J16	SF375CX	1"	1.50 (38.1)	2.53 (64.9)
15MAM9J12	SF562CX	3/4"	1.38 (34.9)	2.69 (68.2)
15MAM9J16	SF562CX	1"	1.50 (38.1)	2.78 (70.6)
15MAM12J12	SF750CX	3/4"	1.38 (34.9)	2.88 (73.0)
15MAM12J16	SF750CX	1"	1.50 (38.1)	2.88 (73.0)
15MAM16J12	SF1000CX	3/4"	1.38 (34.9)	3.38 (85.7)
15MAM16J16	SF1000CX	1"	1.50 (38.1)	3.50 (89.0)
20MAM4J4	SF250CX	1/4"	0.75 (19.1)	1.63 (41.3)
20MAM4J6	SF250CX	3/8"	0.81 (20.6)	1.75 (44.5)
20MAM4J8	SF250CX	1/2"	1.00 (25.4)	2.00 (50.8)
20MAM6J4	SF375CX	1/4"	0.75 (19.1)	1.75 (44.5)
20MAM6J6	SF375CX	3/8"	0.81 (20.6)	1.81 (46.0)
20MAM6J8	SF375CX	1/2"	1.00 (25.4)	2.00 (50.8)
20MAM9J4	SF562CX	1/4"	0.94 (23.8)	2.13 (54.0)
20MAM9J6	SF562CX	3/8"	0.94 (23.8)	2.13 (54.0)
20MAM9J8	SF562CX	1/2"	1.00 (25.4)	2.25 (57.1)
20MAM9J10	SF562CX	5/8"	1.19 (30.1)	2.25 (57.1)
20MAM12J4	SF750CX	1/4"	1.19 (30.1)	2.38 (60.3)
20MAM12J6	SF750CX	3/8"	1.19 (30.1)	2.38 (60.3)
20MAM12J8	SF750CX	1/2"	1.19 (30.1)	2.50 (63.5)
20MAM16J4	SF1000CX	1/4"	1.38 (34.9)	3.13 (79.3)
20MAM16J6	SF1000CX	3/8"	1.38 (34.9)	3.13 (79.3)
20MAM16J8	SF1000CX	1/2"	1.38 (34.9)	3.13 (79.3)



High-Pressure to JIC Adapters

Catalog	Connection	Connection	Dimension in	iches (mm)
Number	H/P	JIC	A Hex	В
20MAH4J2	F250C	1/8"	0.63 (15.9)	1.50 (38.1)
20MAH4J4	F250C	1/4"	0.75 (19.1)	1.63 (41.3)
20MAH4J6	F250C	3/8"	0.81 (20.6)	1.63 (41.3)
20MAH4J8	F250C	1/2"	1.00 (25.4)	1.88 (47.6)
20MAH6J4	F375C	1/4"	0.81 (20.6)	1.94 (49.1)
20MAH6J6	F375C	3/8"	0.81 (20.6)	1.94 (49.1)
20MAH6J8	F375C	1/2"	1.00 (25.4)	2.19 (55.5)
20MAH9J4	F562C	1/4"	1.19 (30.1)	2.31 (58.7)
20MAH9J6	F562C	3/8"	1.19 (30.1)	2.31 (58.7)
20MAH9J8	F562C	1/2"	1.19 (30.1)	2.38 (60.3)
20MAH4J10	F250C	5/8"	1.19 (30.1)	2.13 (54.0)

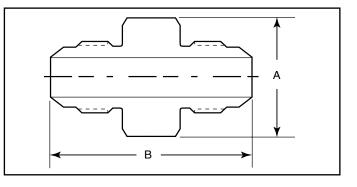


Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see ordering procedure. All Dimensions for reference only and are subject to change. For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.

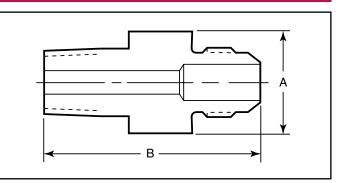
JIC to JIC Adapters

Catalog	Connection	Connection	Dimension i	nches (mm)	
Number	JIC	JIC	A Hex	В	
20MAJ4J4	1/4	1/4"	0.75 (19.1)	1.56 (39.7)	
20MAJ6J6	3/8	3/8"	0.81 (20.6)	1.56 (39.7)	
20MAJ6J8	3/8	1/2"	1.00 (25.4)	1.75 (44.5)	
20MAJ8J8	1/2	1/2"	1.00 (25.4) 1.81 (46.0		



NPT to JIC Adapters

Catalog	Connection	Connection	Dimension i	nches (mm)
Number	NPT	JIC	A Hex	В
15MAP4J4	1/4	1/4"	0.75 (19.1)	1.69 (42.8)
15MAP4J6	1/4	3/8"	0.81 (20.6)	1.75 (44.5)
15MAP4J8	1/4	1/2"	1.00 (25.4)	1.94 (49.1)
15MAP4J12	1/4	3/4"	1.38 (34.9)	2.25 (57.1)
15MAP6J4	3/8	1/4"	0.75 (19.1)	1.69 (42.8)
15MAP6J6	3/8	3/8"	0.81 (20.6)	1.75 (44.5)
15MAP6J8	3/8	1/2"	1.00 (25.4)	1.81 (46.0)
15MAP6J12	3/8	3/4"	1.38 (34.9)	2.25 (57.1)
15MAP8J4	1/2	1/4"	0.94 (23.8)	2.00 (50.8)
15MAP8J8	1/2	1/2"	1.00 (25.4)	2.13 (54.0)
15MAP8J12	1/2	3/4"	1.38 (34.9)	2.44 (61.9)



Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see ordering procedure.

All Dimensions for reference only and are subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.

NOTE: NPT (Pipe) connections

- NPT threads must be sealed using a high quality PTFE tape and/or PTFE paste product. Refer to thread sealant manufacturer's instructions on how to apply thread sealant.
- Sealing performance may vary based on many factors such as pressure, temperature, media, thread quality, thread material, proper thread engagement and proper use of thread sealant.
- Customer should limit the number of times an NPT fitting is assembled and disassembled because thread deformation during assembly will result in deteriorating seal quality over time. When using only PTFE tape, consider using thread lubrication to prevent galling of mating parts.

Adapters/Couplings - Male/Female JIC Adapters

Male /female adapters are designed to adapt a female connection to another size and/or type of connection without the need for additional couplings. In selecting an adapter involving two different sized connections, the larger connection should be on the male end where it is possible to maximize the mechanical strength of the adapter.

To use this chart:

- 1. Locate MALE end in vertical column.
- 2. Locate desired FEMALE end of adapter across top of chart.
- 3. Catalog number of required adapter is located at intersection of columns.
- 4. For one piece adapter add-OP to suffix of part number where applicable.

Other Adapters

Parker Autoclave Engineers supplies many other types of adapters on special order. These include Parker Autoclave UniVersa-Lok swaged-type connections, socketweld to O.D. tube or nominal pipe size, male or female AN connections and others.

Materials

All Parker Autoclave Engineers adapters are precision machined from cold-worked Type 316 stainless steel. Other materials available on special order.

Note: Special material couplings may be supplied with four flats in place of standard hex.

							FE	MALE EN	C					
			Connectio	n		JIC						Medium Pressure		
			Size and Ty		1/4" JIC4	3/8" JIC6	1/2" JIC8	5/8" JIC10	3/4" JIC12	1" JIC16	1/4" SF250CX	3/8" SF375CX	9/16" SF562CX	
			Fits this Female Connection	Pressure Rating PSI (bar)*	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	15,000 (1034.20)	15,000 (1034.20)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	
		1/4"	JIC4	20,000 (1378.93)							20MFAJ4M4	20MFAJ4M6	20MFAJ4M9	
		3/8"	JIC6	20,000 (1378.93)							20MFAJ6M4	20MFAJ6M6	20MFAJ6M9	
	JIC	1/2"	JIC8	20,000 (1378.93)							20MFAJ8M4	20MFAJ8M6	20MFAJ8M9	
	ں	5/8"	JIC10	20,000 (1378.93)										
		3/4"	JIC12	15,000 (1034.20)							15MFAJ12M4	15MFAJ12M6	15MFAJ12M9	
END		1"	JIC16	15,000 (1034.20)							15MFAJ16M4	15MFAJ16M6	15MFAJ16M9	
MALE	e	1/4"	SF250CX	20,000 (1378.93)	20MFAM4J4	20MFAM4J6								
M	essur	3/8"	SF375CX	20,000 (1378.93)										
	m Pre	9/16"	SF562CX	20,000 (1378.93)										
	Medium Pressure	3/4"	SF750CX	20,000 (1378.93)	20MFAM12J4									
	2	1"	SF1000CX	20,000 (1378.93)										
	sure	1/4"	F250C	60,000 (4136.85)	20MFAH4J4									
	High Pressure	3/8"	F375C	60,000 (4136.85)										
	High	9/16"	F562C	60,000 (4136.85)										
	PT)	1/4"	NPT	15,000 (1034.20)										
	ead (N	3/8"	NPT	15,000 (1034.20)		15MFAP6J6								
	National Pipe Thread (NPT)	1/2"	NPT	15,000 (1034.20)										
	ional P	3/4"	NPT	10,000 (689.45)										
	Nati	1"	NPT	10,000 (689.45)										

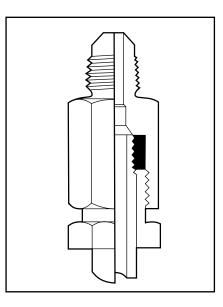
Note:

All adapters with Parker Autoclave connections are supplied with appropriate glands, collars, tube nuts and sleeves unless specified without.

JIC connections are not supplied with connection components.

* The maximum pressure rating for an adapter is determined by the connection component with the LOWEST pressure rating; that is, the two end connections and the tubing or pipe used, whichever is LOWER.

CAUTION: See appropriate pressure section in reference to proper selection of tubing.

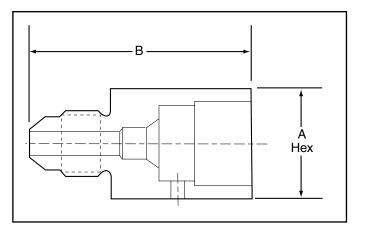


	FEMALE END										
Medium	Pressure	High Pressure			National Pipe Thread (NPT)						
3/4" F750CX	1" F1000CX	1/4" F250C	3/8" F375C	9/16" F562C	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT		
20,000 (1378.93)	20,000 (1378.93)	60,000 (4136.85)	60,000 (4136.85)	60,000 (4136.85)	15,000 (1034.20)	15,000 (1034.20)	15,000 (1034.20)	10,000 (689.45)	10,000 (689.45)		
20MFAJ4M12	20MFAJ4M16	20MFAJ4H4	20MFAJ4H6	20MFAJ4H9	15MFAJ4P4		15MFAJ4P8				
20MFAJ6M12	20MFAJ6M16		20MFAJ6H6								
20MFAJ8M12	20MFAJ8M16										
15MFAJ12M12	15MFAJ12M16										
15MFAJ16M12	15MFAJ16M16										

Parker AE Male/Female Adapters are available in a "one-piece" design. They are identical to the two piece designs in length and can be ordered by adding the suffix - OP to the two piece adapter part numbers listed.

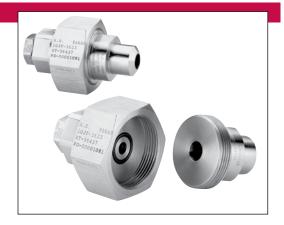
Adapters/Couplings - Male/Female JIC Adapters

Male End	Female	Catalog	Dimension i	nches (mm)	
Fits this Connection	End	Number	A Hex	В	
JIC to Medi	um Pressure				
1/4" JIC	SF250CX	20MFAJ4M4	0.63 (15.9)	1.25 (31.8)	
1/4" JIC	SF375CX	20MFAJ4M6	0.75 (19.1)	1.50 (38.1)	
1/4" JIC	SF562CX	20MFAJ4M9	1.00 (25.4)	1.88 (47.8)	
1/4" JIC	SF750CX	20MFAJ4M12	1.38 (35.1)	2.13 (54.0)	
1/4" JIC	SF1000CX	20MFAJ4M16	1.75 (44.5)	2.75 (69.9)	
3/8" JIC	SF250CX	20MFAJ6M4	0.63 (15.9)	1.25 (31.8)	
3/8" JIC	SF375CX	20MFAJ6M6	0.75 (19.1)	1.44 (36.5)	
3/8" JIC	SF562CX	20MFAJ6M9	1.00 (25.4)	1.88 (47.8)	
3/8" JIC	SF750CX	20MFAJ6M12	1.38 (35.1)	2.13 (54.0)	
3/8" JIC	SF1000CX	20MFAJ6M16	1.75 (44.5)	2.62 (66.5)	
1/2" JIC	SF250CX	20MFAJ8M4	0.81 (20.6)	1.63 (41.3)	
1/2" JIC	SF375CX	20MFAJ8M6	0.81 (20.6)	1.75 (44.5)	
1/2" JIC	SF562CX	20MFAJ8M9	1.00 (25.4)	1.88 (47.8)	
1/2" JIC	SF750CX	20MFAJ8M12	1.38 (35.1)	2.25 (57.2)	
1/2" JIC	SF1000CX	20MFAJ8M16	1.75 (44.5)	2.75 (69.9)	
3/4" JIC	SF250CX	15MFAJ12M4	1.38 (35.1)	2.00 (50.8)	
3/4" JIC	SF375CX	15MFAJ12M6	1.38 (35.1)	2.00 (50.8)	
3/4" JIC	SF562CX	15MFAJ12M9	1.38 (35.1)	2.00 (50.8)	
3/4" JIC	SF750CX	15MFAJ12M12	1.38 (35.1)	2.25 (57.2)	
3/4" JIC	SF1000CX	15MFAJ12M16	1.75 (44.5)	3.25 (82.6)	
1" JIC	SF250CX	15MFAJ16M4	1.50 (38.1)	2.00 (50.8)	
1" JIC	SF375CX	15MFAJ16M6	1.50 (38.1)	2.00 (50.8)	
1" JIC	SF562CX	15MFAJ16M9	1.50 (38.1)	2.25 (57.2)	
1" JIC	SF750CX	15MFAJ16M12	1.38 (35.1)	2.62 (66.5)	
1" JIC	SF1000CX	15MFAJ16M16	1.75 (44.5)	3.25 (82.6)	
JIC to High	Pressure	· · · · · · · · · · · · · · · · · · ·			
1/4" JIC	SF250C	20MFAJ4H4	0.75 (19.1)	1.38 (35.1)	
1/4" JIC	SF375C	20MFAJ4H6	1.00 (25.4)	1.50 (38.1)	
1/4" JIC	SF562C	20MFAJ4H9	1.38 (35.1)	2.00 (50.8)	
3/8" JIC	SF375C	20MFAJ6H6	1.00 (25.4)	1.50 (38.1)	
JIC to NPT		·]			
1/4" JIC	1/4" NPT	15MFAJ4P4	0.94 (23.8)	1.50 (38.1)	
1/4" JIC	1/2" NPT	15MFAJ4P8	1.19 (30.1)	1.88 (47.8)	
Medium Pro	essure to JIC				
SF250CX	1/4" JIC	20MFAM4J4	0.75 (19.1)	1.56 (39.7)	
SF250CX	3/8" JIC	20MFAM4J6	0.81 (20.6)	1.50 (38.1)	
SF750CX	1/4" JIC	20MFAJ12J4	1.19 (30.1)	2.00 (50.8)	
High Pressu	ire to JIC				
F250C	1/4" JIC	20MFAH4J4	0.75 (19.1)	1.50 (38.1)	
NPT to JIC					
3/8" NPT	3/8" JIC	15MFAP6J6	0.81 (20.6)	1.50 (38.1)	

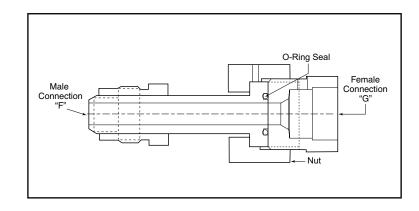


Adapters/Couplings - EZ-Union Adapters

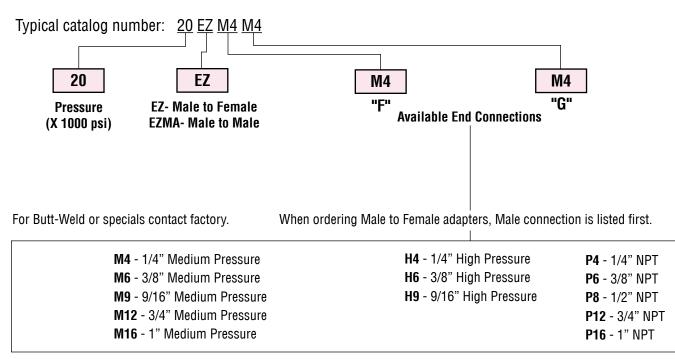
Parker Autoclave Engineers offers an EZ-Union adapter providing a fast and simple way to install or remove components from a pressure system. The face seal o-ring design provides a positive seal with easy and reliable operation. EZ-Union adapters can be provided with any standard or special connection combination. Optional materials available upon request. Contact your local Sales Representative for optional information and sizes not shown. The following tables show the standard adapters with dimensions.



EZ-Union Adapter



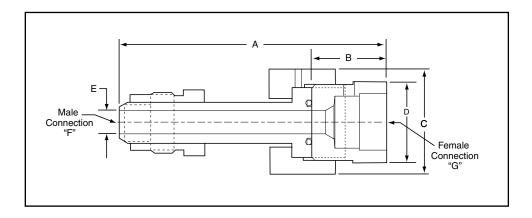
Ordering Procedure



Note: Special material EZ-Unions may be supplied with four flats in place of standard hex.

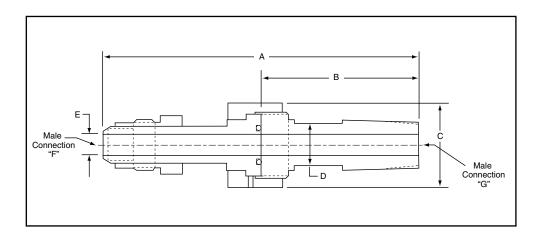
EZ-Union Male to Female Adapters

Catalog	Male	Female	Pressure	Dimension inches (mm)					
Number	"F" Connection "G" Cor	"G" Connection	Rating psi (bar)	А	В	C Hex	D Hex	E Min Opening	
20EZM4M4	SM250CX20	SF250CX20	20,000 (1379)	3.13 (79.50)	1.00 (25.40)	1.00 (25.40)	0.81 (20.57)	0.109 (2.77)	
10EZM9M9	SM562CX20	SF562CX20	10,000 (690)	4.63 (117.60)	1.63 (41.40)	1.75 (44.45)	1.38 (34.93)	0.31 (7.92)	
10EZM12M12	SM750CX20	SF750CX20	10,000 (690)	4.63 (117.60)	1.38 (35.05)	1.75 (44.45)	1.50 (38.10)	0.44 (11.13)	
10EZM16M16	SM1000CX20	SF1000CX20	10,000 (690)	6.44 (163.58)	2.31 (58.67)	1.75 (44.45)	1.75 (44.45)	0.56 (14.27)	
10EZP12M12	3/4" NPT	SF750CX20	10,000 (690)	4.63 (117.60)	1.38 (35.05)	1.75 (44.45)	1.50 (38.10)	0.44 (11.13)	
10EZM16P8	SM1000CX20	1/2" NPT	10,000 (690)	5.38 (136.65)	1.25 (31.75)	1.75 (44.45)	1.38 (35.05)	0.56 (14.27)	



EZ-Union Male to Male Adapters

Catalog	Male	Male	Pressure		Dimension inches (mm)					
Number	"F" Connection	"G" Connection	Rating psi (bar)	А	В	C Hex	D Hex	E Min Opening		
20EZMAH4H6	M250C	M375C	20,000 (1379)	5.94 (150.88)	3.56 (90.42)	1.00 (25.40)	0.81 (20.57)	0.09 (2.29)		
10EZMAP12M12	SM750CX20	3/4" NPT	10,000 (690)	6.50 (165.10)	3.25 (82.55)	1.75 (44.45)	0.87 (22.05)*	0.44 (11.13)		



Note1: EZ-Unions are constructed from 316 SS and are supplied with a Viton o-ring as standard.

*across flats

Note: For pressure rating see ordering procedure. All Dimensions for reference only and subject to change.

Note 2: Gland and collar supplied with medium and high pressure connections.

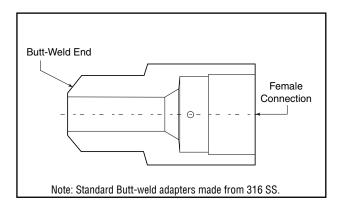
Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Adapters/Gouplings - Butt-Weld Adapters

Parker Autoclave Engineer's Butt-Weld adapters are available in a number of configurations. The following tables show models for all three pressure ranges. Models not shown and special material adapters are available upon request. Contact your local Sales Representative for more information.



Butt-Weld Adapter



Butt-Weld Adapters

Weld Connection	Olar (Olah a dula		AE Low	/ Pressure - Female C	onnection	
Туре	Size/Schedule	SW250	SW375	SW500		
Pipe Butt-Weld	3/4" / XXS			M128W2B-XXS		

Weld Connection			AE Medi	um Pressure - Female	Connection	
Туре	Size/Schedule	SF250CX	SF375CX	SF562CX	SF750CX	SF1000CX
Pipe Butt-Weld	1/8" / 80	M24W6B-XS	M26W6B-XS			
Pipe Butt-Weld	1/4" / 80	M44W6B-XS	M46W6B-XS	M49W6B-XS		
Pipe Butt-Weld	3/8" / 80	M64W6B-XS	M66W6B-XS	M69W6B-XS	M612W6B-XS	
Pipe Butt-Weld	1/2" / 80	M84W6B-XS		M89W6B-XS		
Pipe Butt-Weld	1/2" / XXS			M89W6B-XXS	M812W6B-XXS	M816W6B-XXS
Pipe Butt-Weld	3/4" / 80			M129W6B-XS		
Pipe Butt-Weld	3/4" / 160			M129W6B-160		
Pipe Butt-Weld	3/4" / XXS			M129W6B-XXS	M1212W6B-XXS	M1216W6B-XXS
Pipe Butt-Weld	1" / XXS					M1616W6B-XXS

Weld Connection	Qiere (Qiele e dude	AE High Pressure - Female Connection							
Туре	Size/Schedule	F250C	F375C	F562C	F562C40	SF1000CX43			
Pipe Butt-Weld	1" / XXS			M169W3B-XXS					

All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

Butt-Weld to Low-Pressure

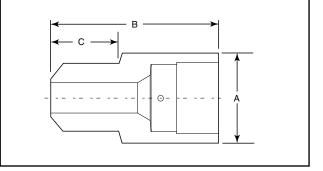
Catalog	Catalog Male	Female	Pressure Rating		Dimension inches (mm)				
Number	BW	LP	psi	bar	A Hex	В	С		
M128W2B-XXS	3/4"	SW500	10,000	689.5	1.19 (30.23)	2.00 (50.80)	0.81 (20.57)		

Butt-Weld to Medium-Pressure

Catalog	Male	Female	Pressure	e Rating		Dimension inches (mm)	
Number	BW	M/P	psi	bar	A Hex	В	C
M24W6B-XS	1/8"	SF250CX	8500	586.0	0.63 (15.88)	1.00 (25.40)	0.38 (9.53)
M26W6B-XS	1/8"	SF375CX	8500	586.0	0.75 (19.05)	1.31 (33.32)	0.38 (9.53)
M44W6B-XS	1/4"	SF250CX	8000	551.6	0.63 (15.88)	1.18 (29.97)	0.56 (14.27)
M46W6B-XS	1/4"	SF375CX	8000	551.6	0.75 (19.05)	1.50 (38.10)	0.56 (14.27)
M49W6B-XS	1/4"	SF562CX	8000	551.6	1.00 (25.40)	1.56 (39.67)	0.56 (14.27)
M64W6B-XS	3/8"	SF250CX	6500	448.2	0.75 (19.05)	1.25 (31.75)	0.63 (15.88)
M66W6B-XS	3/8"	SF375CX	6500	448.2	0.75 (19.05)	1.56 (39.67)	0.63 (15.88)
M69W6B-XS	3/8"	SF562CX	6500	448.2	1.00 (25.40)	1.63 (41.28)	0.63 (15.88)
M612W6B-XS	3/8"	SF750CX	6500	448.2	1.38 (34.93)	1.94 (49.20)	0.63 (15.88)
M84W6B-XS	1/2"	SF250CX	6000	413.7	1.00 (25.40)	1.38 (34.93)	0.81 (20.57)
M86W6B-XXS	1/2"	SF375CX	13000	896.3	1.00 (25.40)	1.75 (44.45)	0.81 (20.57)
M89W6B-XS	1/2"	SF375CX	6000	413.7	1.00 (25.40)	1.81 (45.97)	0.81 (20.57)
M89W6B-XXS	1/2"	SF562CX	10000	689.5	1.00 (25.40)	1.81 (45.97)	0.81 (20.57)
M812W6B-XXS	1/2"	SF750CX	10000	689.5	1.38 (34.93)	2.13 (53.98)	0.81 (20.57)
M816W6B-XXS	1/2"	SF1000CX	10000	689.5	1.75 (44.45)	2.81 (71.37)	0.81 (20.57)
M129W6B-XS	3/4"	SF562CX	5000	344.7	1.19 (30.23)	1.81 (45.97)	0.81 (20.57)
M129W6B-160	3/4"	SF562CX	7500	517.1	1.19 (30.23)	2.00 (50.80)	0.81 (20.57)
M129W6B-XXS	3/4"	SF562CX	10000	689.5	1.19 (30.23)	2.00 (50.80)	0.81 (20.57)
M1212W6B-XXS	3/4"	SF750CX	10000	689.5	1.38 (34.93)	2.06 (52.32)	0.81 (20.57)
M1216W6B-XXS	3/4"	SF1000CX	10000	689.5	1.75 (44.45)	2.69 (68.25)	0.81 (20.57)
M1616W6B-XXS	1"	SF1000CX	10000	689.5	1.75 (44.45)	3.25 (82.55)	1.31 (33.32)

Butt-Weld to High-Pressure

Catalog	Catalog Male	Female	Pressure Rating		Dimension inches (mm)				
Number	BW	LP	psi bar		A Hex	В	C		
M169W3B-XXS	1"	F562C	10000	689.5	1.38 (34.93)	2.44 (61.90)	1.22 (30.99)		



Gland and collar supplied with high pressure connections.

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by piping pressure rating, contact factory. Note: For pressure rating see ordering procedure. All Dimensions for reference only and are subject to change.

For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.

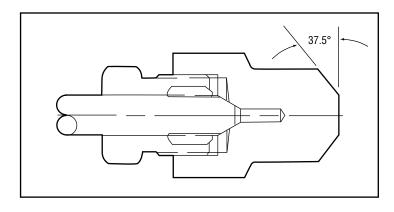
All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

Adapters/Couplings - Header Couplings

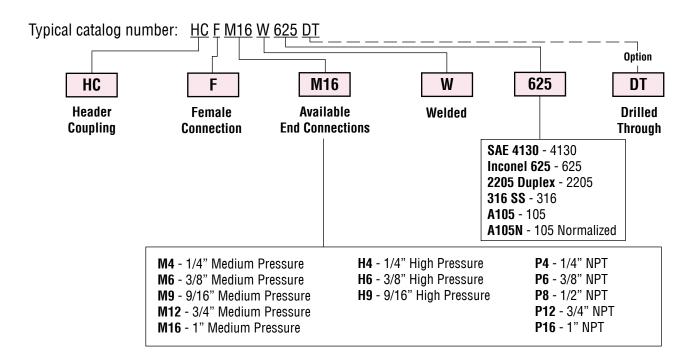
Parker Autoclave Engineer's offers weld style Header Couplings in a number of designs and materials. The standard materials are SAE-4130 and Inconel 625. Other materials are listed in the tables. Header couplings are available drilled through or blind drilled, allowing final drill through after welding. The couplings can be supplied with any style of Parker Autoclave Engineers connection or special connections if required. Header couplings come standard with 316 SS glands and collars for our medium and high-pressure connections. Models not shown are available upon request. Contact your local sales representative.



Header Coupling



Ordering Procedure

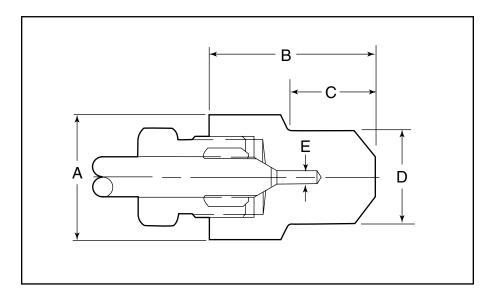


Female Medium-Pressure Header Coupling Blind End

Catalog		Pressure	Female	Dimension inches (mm)					
Number	umber Material psi (b	psi (bar)	M/P	A Flats	В	C	D	E	
HCFM12W316	316 SS	10,000 (690)	SF750CX20	1.75 (44.45)	3.00 (76.2)	1.05 (26.7)	1.32 (33.5)	0.44 (11.2)	
HCFM12W105	SA-105	10,000 (690)	SF750CX20	1.75 (44.45)	3.00 (76.2)	1.05 (26.7)	1.32 (33.5)	0.44 (11.2)	
HCFM12W4130	SAE-4130	20,000 (1379)	SF750CX20	1.75 (44.45)	3.00 (76.2)	1.05 (26.7)	1.32 (33.5)	0.44 (11.2)	
HCFM12W2205	2205 Duplex	15,000 (1034)	SF750CX20	1.75 (44.45)	3.00 (76.2)	1.05 (26.7)	1.32 (33.5)	0.44 (11.2)	
HCFM16W316	316 SS	10,000 (690)	SF1000CX20	1.75 (44.45)	2.62 (66.55)	1.00 (25.40)	1.38 (34.93)	0.56 (14.27)	
HCFM16W2205	2205 Duplex	15,000 (1034)	SF1000CX20	1.75 (44.45)	3.00 (76.2)	1.05 (26.7)	1.31 (33.27)	0.56 (14.27)	

Female High-Pressure Header Coupling Blind End

Catalog	Catalog Number Material Pressure psi (bar)	Pressure	Female		Di	mension inches (mn	n)	
Number		psi (bar)	H/P	A Flats	В	C	D	E
HCFH9W316	316SS	30,000 (2068)	F562C	1.50 (38.10)	2.31 (58.67)	1.19 (30.18)	1.31 (33.27)	0.19 (4.75)
HCFH9W4130	SAE-4130	30,000 (2068)	F562C	1.50 (38.10)	2.31 (58.67)	1.19 (30.18)	1.31 (33.27)	0.19 (4.75)
HCFH9W625	Inconel 625	30,000 (2068)	F562C	1.50 (38.10)	2.31 (58.67)	1.19 (30.18)	1.31 (33.27)	0.19 (4.75)
HCFH16W4130	SAE-4130	20,000 (1379)	F1000C43	1.75 (44.45)	3.00 (76.20)	1.05 (26.59)	1.32 (33.53)	0.44 (11.10)
HCFH16W625	Inconel 625	22,000 (1551)	F1000C43	1.75 (44.45)	3.00 (76.20)	1.05 (26.59)	1.32 (33.53)	0.44 (11.10)



Gland and collar supplied with high pressure connections.

All Dimensions for reference only and are subject to change. For prompt service, Parker Autoclave Engineers stocks select products. Consult factory.

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

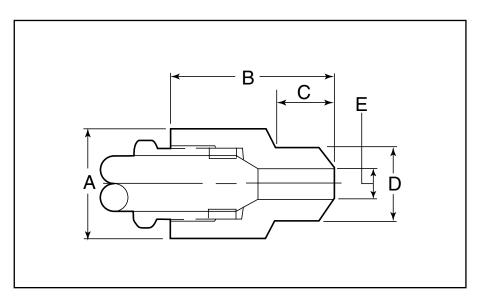
Female Medium-Pressure Header Coupling Drill Through

Catalog		Pressure	Female		Di	mension inches (mr	n)	
Number	Material	psi (bar)	M/P	A Flats	В	C	D	E
HCFM4W316DT	316 SS	10,000 (690)	SF250CX20	0.63 (16.0)*	1.19 (30.2)	0.56 (14.3)	0.54 (13.6)	0.11 (2.8)
HCFM9W316DT	316 SS	10,000 (690)	SF562CX20	1.38 (35.1)*	2.44 (62.0)	1.13 (28.6)	1.32 (33.5)	0.36 (9.1)
HCFM9W4130DT	SAE-4130	25,000 (1724)	SF562CX20	1.38 (35.1)	2.44 (62.0)	1.13 (28.6)	1.32 (33.5)	0.36 (9.1)
HCFM12W4130DT	SAE-4130	20,000 (1379)	SF750CX	1.38 (35.1)	2.63 (66.68)	1.05 (26.7)	1.32 (33.5)	0.44 (11.2)
HCFM12W2205DT	2205 duplex	15,000 (1034)	SF750CX20	1.75 (44.45)	3.00 (76.20)	1.05 (26.7)	1.32 (33.5)	0.44 (11.2)
HCFM16W316DT	316 SS	10,000 (690)	SF1000CX20	1.75 (44.45)	3.00 (76.20)	1.05 (26.7)	1.32 (33.5)	0.56 (14.2)
HCFM16W316LDT	316L SS	10,000 (690)	SF1000CX20	1.75 (44.45)	3.00 (76.20)	1.05 (26.7)	1.32 (33.5)	0.56 (14.2)
HCFM16W4130DT	SAE-4130	20,000 (1379)	SF1000CX20	1.75 (44.45)	3.00 (76.20)	1.05 (26.7)	1.32 (33.5)	0.56 (14.2)
HCFM16W105DT	SA-105	12,000 (827)	SF1000CX20	1.75 (44.45)	3.00 (76.20)	1.05 (26.7)	1.32 (33.5)	0.56 (14.2)
HCFM16W2205DT	2205 duplex	15,000 (1034)	SF1000CX20	1.75 (44.45)	3.00 (76.20)	1.05 (26.7)	1.32 (33.5)	0.56 (14.2)
HCFM16W625DT	Inconel 625	15,000 (1034)	SF1000CX20	1.75 (44.45)	3.00 (76.20)	1.05 (26.7)	1.32 (33.5)	0.56 (14.2)

*across hex

Female High-Pressure Header Coupling Drill Through

Catalog		Pressure	Female		Di	mension inches (mn	n)	
Number		psi (bar)	H/P	A Flats	В	C	D	E
HCFH9W316DT	316SS	30,000 (2068)	F562C	1.50 (38.10)	2.31 (58.67)	1.19 (30.18)	1.31 (33.27)	0.19 (4.75)
HCFH9W4130DT	SAE-4130	30,000 (2068)	F562C	1.50 (38.10)	2.31 (58.67)	1.19 (30.18)	1.31 (33.27)	0.19 (4.75)
HCFH9W625DT	Inconel 625	30,000 (2068)	F562C	1.50 (38.10)	2.31 (58.67)	1.19 (30.18)	1.31 (33.27)	0.19 (4.75)
HCFH16W4130DT	SAE-4130	20,000 (1379)	F1000C43	1.75 (44.45)	3.00 (76.20)	1.05 (26.59)	1.32 (33.53)	0.44 (11.10)
HCFH16W625DT	Inconel 625	22,000 (1551)	F1000C43	1.75 (44.45)	3.00 (76.20)	1.05 (26.59)	1.32 (33.53)	0.44 (11.10)



Gland and collar supplied with high pressure adapters.

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower. Note: For pressure rating see ordering procedure.

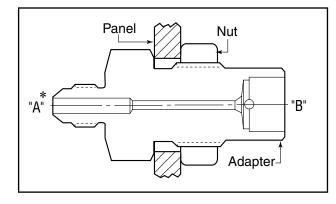
All Dimensions for reference only and are subject to change.

Adapters/Couplings - Buikhead Adapters

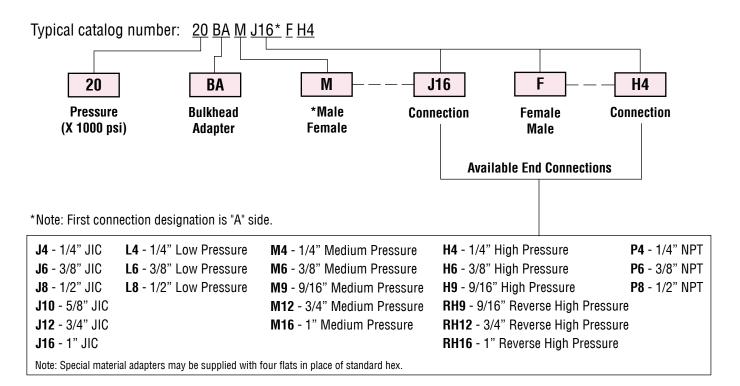
Parker Autoclave Engineers bulkhead adapters are used to connect tubing or piping of different sizes and configurations through the panel. Bulkhead adapters are machined from cold worked stainless steel. Other material and connections are available. Contact your local Sales Repersentative for optional information.



Bulkhead Adapter



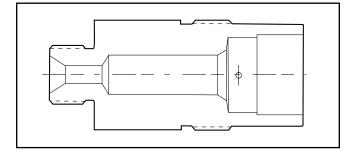
Ordering Procedure



All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.

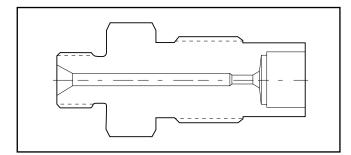
Reverse High to Medium-Pressure

Male Connection		AE Medium Pressure - Female Connection								
R/H	SF250CX	SF375CX	SF562CX	SF750CX	SF1000CX					
0/4.07										
9/16"	20BAMRH9FM4	20BAMRH9FM6	20BAMRH9FM9							
3/4"			20BAMRH12FM9		20BAMRH12FM16					
1"					20BAMRH16FM16					



Reverse High to High Pressure

Male Connection		AE High Pressure - Female Connection						
R/H	F250C	F375C	F562C					
9/16"	40BAMRH9FH4		40BAMRH9FH9					
3/4"			30BAMRH12FH9					
1"								

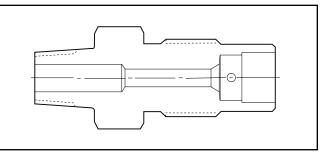


NPT to Medium Pressure

Male Connection	AE Medium Pressure - Female Connection								
NPT	SF250CX	SF375CX	SF562CX	SF750CX	SF1000CX				
1/4"	15BAMP4FM4	15BAMP4FM6							
3/8"		15BAMP6FM6							
1"									

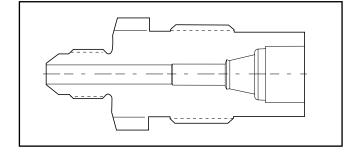
Gland and collar supplied with adapter.

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.



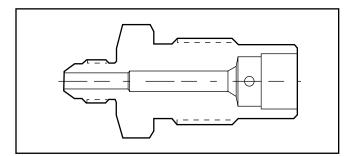
Note: For pressure rating see ordering procedure. All Dimensions for reference only and are subject to change.

Male Connection		AE Low Pressure - Female Connection						
JIC	SW250	SW375	SW500					
1/4"	15BAMJ4FL4							
3/8"								
1/2"								



JIC to Medium Pressure

Male Connection		AE Medium Pressure - Female Connection							
JIC	SF250CX	SF375CX	SF562CX	SF750CX	SF1000CX				
1/4"	20BAMJ4FM4	20BAMJ4FM6		20BAMJ4FM12					
3/8"	20BAMJ6FM4	20BAMJ6FM6	20BAMJ6FM9	20BAMJ6FM12					
1/2"		20BAMJ8FM6	20BAMJ8FM9	20BAMJ8FM12	20BAMJ8FM16				

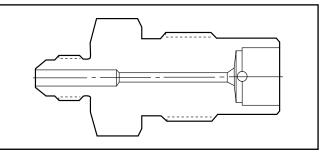


JIC to High Pressure

Male Connection		AE H	igh Pressure - Female Con	nection	
JIC	F250C	F375C	F562C		
1/4"	20BAMJ4FH4				
3/8"	20BAMJ6H4				
1/2"					

Gland and collar supplied with adapter.

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.



Note: For pressure rating see ordering procedure. All Dimensions for reference only and are subject to change.

Reverse High Pressure to Medium Pressure

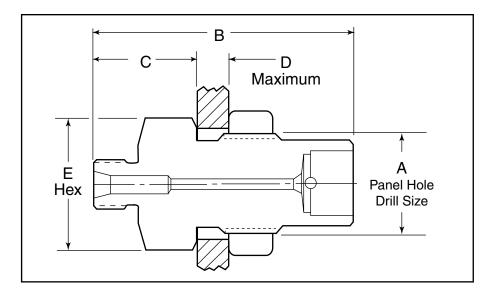
Catalog	Male	Male Female		Dimension inches (mm)					
Number		M/P	A Panel Hole	В	C	D Max	E Hex		
20BAMRH9FM4	9/16"	SF250CX	0.81 (20.62)	2.56 (65.0)	1.22 (31.0)	0.38 (9.65)	1.00 (25.40)		
20BAMRH9FM6	9/16"	SF375CX	0.94 (23.88)	2.63 (66.80)	1.13 (28.70)	0.38 (9.65)	1.00 (25.40)		
20BAMRH9FM9	9/16"	SF562CX	1.13 (28.58)	3.00 (76.20)	1.28 (32.51)	0.38 (9.65)	1.38 (34.93)		
20BAMRH12FM9	3/4"	SF562CX	1.13 (28.58)	3.13 (79.50)	1.41 (35.81)	0.38 (9.65)	1.38 (34.93)		
20BAMRH12FM16	3/4"	SF1000CX	1.94 (49.28)	4.26 (108.20)	2.13 (54.10)	0.38 (9.65)	2.13 (54.10)		
20BAMRH16FM16	1"	SF1000CX	1.94 (49.28)	4.41 (112.01)	2.28 (57.91)	0.38 (9.65)	2.13 (54.10)		

Reverse High Pressure to High Pressure

Catalog Male	Female	Dimension inches (mm)					
Number		H/P	A Panel Hole	В	C	D Max	E Hex
40BAMRH9FH4	9/16"	F250C	0.94 (23.88)	2.50 (63.50)	1.00 (25.40)	0.38 (9.65)	1.00 (25.40)
40BAMRH9FH9	9/16"	F562C	1.69 (42.85)	3.38 (85.85)	1.50 (38.10)	0.38 (9.65)	1.88 (47.75)
30BAMRH12FH9	3/4"	F562C	1.69 (42.85)	3.50 (88.90)	1.62 (41.15)	0.38 (9.65)	1.88 (47.75)

Pipe to Medium Pressure

Catalog Male Number NPT	Male	Female	Dimension inches (mm)				
		A Panel Hole	В	C	D Max	E Hex	
15BAMP4FM4	1/4"	SF250CX	0.81 (20.62)	2.56 (65.02)	1.22 (31.01)	0.38 (9.65)	1.00 (25.40)
15BAMP4FM6	1/4"	SF375CX	0.94 (23.88)	2.69 (68.33)	1.31 (33.35)	0.38 (9.65)	1.00 (25.40)
15BAMP6FM6	3/8"	SF375CX	0.94 (23.88)	2.75 (69.85)	1.25 (31.75)	0.38 (9.65)	1.00 (25.40)



Gland and collar supplied with adapter.

Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see ordering procedure. All Dimensions for reference only and are subject to change.

JIC to Low	JIC to Low Pressure										
Catalog Male F	Female	Dimension inches (mm)									
Number	JIC	LP	A Panel Hole	В	C	D Max	E Hex				
15BAMJ4FL4	1/4"	SW250	0.94 (23.88)	2.29 (58.04)	0.91 (23.11)	0.38 (9.65)	1.00 (25.40)				

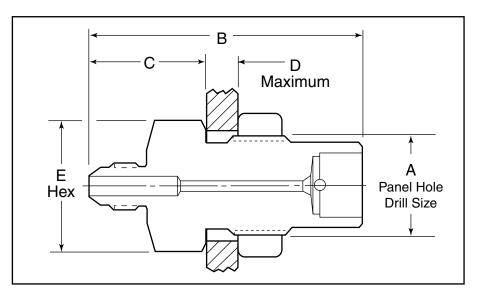
JIC to Medium Pressure

Catalog	Male	Female		Di	mension inches (mn	n)	
Number	Number JIC	MP	A Panel Hole	В	C	D Max	E Hex
20BAMJ4FM4	1/4"	SF250CX	0.81 (20.62)	2.25 (57.15)	0.91 (23.11)	0.38 (9.65)	1.00 (25.40)
20BAMJ4FM6	1/4"	SF375CX	0.81 (20.62)	2.44 (61.93)	0.94 (23.88)	0.38 (9.65)	1.00 (25.40)
20BAMJ4FM12	1/4"	SF750CX	1.69 (42.85)	2.94 (74.68)	1.22 (31.0)	0.38 (9.65)	1.88 (47.75)
20BAMJ6FM4	3/8"	SF250CX	0.81 (20.62)	2.25 (57.15)	0.91 (23.11)	0.38 (9.65)	1.00 (25.40)
20BAMJ6FM6	3/8"	SF375CX	0.94 (23.88)	2.44 (61.98)	0.94 (23.88)	0.38 (9.65)	1.00 (25.40)
20BAMJ6FM9	3/8"	SF562CX	1.13 (28.58)	2.75 (69.85)	1.16 (29.46)	0.38 (9.65)	1.38 (34.93)
20BAMJ6FM12	3/8"	SF750CX	1.69 (42.85)	2.94 (74.68)	1.22 (31.0)	0.38 (9.65)	1.88 (47.75)
20BAMJ8FM6	1/2"	SF375CX	0.81 (20.62)	2.53 (64.26)	1.03 (26.16)	0.38 (9.65)	1.00 (25.40)
20BAMJ8FM9	1/2"	SF562CX	1.13 (28.58)	3.00 (76.20)	1.41 (35.69)	0.38 (9.65)	1.38 (34.93)
20BAMJ8FM12	1/2"	SF750CX	1.69 (42.85)	3.13 (79.38)	1.41 (35.69)	0.38 (9.65)	1.88 (47.75)
20BAMJ8FM16	1/2"	SF1000CX	1.94 (49.20)	4.36 (110.72)	2.23 (56.62)	0.50 (12.70)	1.87 (47.50*)

*Dimension across flats

JIC to High Pressure

Catalog Male	Female		Dimension inches (mm)				
Number	JIC	HP	A Panel Hole	В	C	D Max	E Hex
20BAMJ4FH4	1/4"	F250C	0.94 (23.80)	2.44 (61.90)	1.06 (26.97)	0.38 (9.65)	1.00 (25.40)
20BAMJ6FH4	3/8"	F250C	0.94 (23.80)	2.47 (62.74)	1.09 (27.79)	0.38 (9.65)	1.00 (25.40)



Gland and collar supplied with adapter.

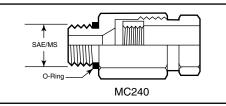
Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.

Note: For pressure rating see ordering procedure. All Dimensions for reference only and are subject to change.

Adapters/Couplings - SAE O-Ring Adapters

Parker Autoclave Engineers also offers a line of components that assist in adapting into and out of specialized connections with Parker Autoclave Engineers products. Along with the adapters shown, Parker Autoclave Engineers can provide other special adapters to fill your requirements. Contact your local Sales representative for information.

AE Low, Medium and High Medium Pressure (Female) SAE/MS Male



Note: O-rings are standard Buna-N. 10,000 psi (690 bar) operating pressure.

MC240 ((SAE/MS	Straight thr	ead Boss)
1002101		ou aigne un	ouu 2000)

Connection SAE/MS Thread Size Type (inches)		AE Low Pressure (Female)				
		W125	SW250	SW 375	SW500	
	5/16-24					
MC240	7/16-20		M44MC2B	M46MC2B		
(SAE/MS)	9/16-18					
	3/4-16					

Connection	_SAE/MS		AE Medium Pressure (Female)					
Туре	Thread Size (inches)	SF250CX	SF375CX	SF562CX	SF750CX	SF1000CX		
	5/16-24	M24MC6B	M26MC6B					
	7/16-20	M44MC6B	M46MC6B	M49MC6B				
MC240	9/16-18	M64MC6B	M66MC6B	M69MC6B				
(SAE/MS)	3/4-16		M86MC6B	M89MC6B	M812MC6B			
	7/8-14				M1012MC6B	M1016MC6B		
	1-1/16-12		M126MC6B		M1212MC6B	M1216MC6B		
	1-5/16-12					M1616MC6B		

Connection	_SAE/MS	AE High Pressure (Female)				
Type Type (inches)		F250C	F375C	F562C		
	5/16-24					
MC240	7/16-20	M44MC3B	M46MC3B			
(SAE/MS)	9/16-18	M64MC3B	M66MC3B			
	3/4-16					

For additional information contact your local sales representative.

Adapters/Couplings - Female Tube Caps / Gauge Connectors

Tube Caps

Parker Autoclave Engineers offers a line of tube caps used to seal the ends of tubing. Caps are used when pressure testing lengths of tubes or capping off sections of systems for isolation or pressure tests.

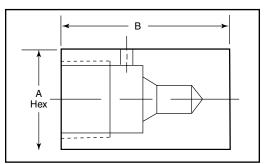


Female Tube Caps - Low Pressure

Catalog	Connection	ction Outside Diameter	Pressure Rating psi (bar)*	Dimension inches (mm)		
Number	Туре	Tube-Inches		A Hex	В	
SWTC2	W125	1/8	15000 (1034.20)	0.50 (12.7)	0.63 (15.9)	
SWTC4	SW250	1/4	15000 (1034.20)	0.63 (15.9)	1.00 (25.4)	
SWTC6	SW375	3/8	15000 (1034.20)	0.75 (19.1)	1.09 (27.8)	
SWTC8	SW500	1/2	10000 (689.5)	1.00 (25.4)	1.25 (31.8)	

Female Tube Caps - Medium Pressure

Catalog	Connection	ON Outside Diameter	Pressure Rating	Dimension inches (mm)		
Number	Туре	Tube-Inches	psi (bar)*	A Hex	В	
20TC4X	SF250CX	1/4	20000 (1378.9)	0.63 (15.9)	0.81 (20.6)	
20TC6X	SF375CX	3/8	20000 (1378.9)	0.75 (19.1)	1.13 (28.6)	
20TC9X	SF562CX	9/16	20000 (1378.9)	1.00 (25.4)	1.38 (34.9)	
20TC12X	SF750CX	3/4	20000 (1378.9)	1.38 (34.9)	1.75 (44.5)	
20TC16X	SF1000CX	1	20000 (1378.9)	1.75 (44.5)	2.25 (57.1)	
15TC24X	SF1500CX	1-1/2	15000 (1034.2)	2.25 (57.6)	3.00 (76.2)	



Tube cap configuration may vary from outline shown.

Female Tube Caps - High Pressure Tube Caps

Catalog	Connection	Outside Diameter	Pressure Rating	Dimension inches (mm)	
Number	Туре	Tube-Inches	° –		В
43TC16	F1000C	1	43000 (2964.7)	1.75 (44.5)	2.25 (57.1)
60TC4C	F250C	1/4	60000 (4136.7)	0.75 (19.1)	0.75 (19.1)
60TC6C	F375C	3/8	60000 (4136.7)	1.00 (25.4)	1.13 (28.6)
60TC9C	F562C	9/16	60000 (4136.7)	2.25 (57.1)	1.38 (34.9)
150TC5C	F312C-150	5/16	150,000 (10342)	1.19 (30.1)	2.63 (66.8)

*Maximum pressure rating is based on the lowest rating of any component. Actual working pressure may be determined by tubing pressure rating, if lower.Note: All tube caps are furnished with connection components unless otherwise specified. All dimensions for reference only and subject to change.

Female Tube Caps - JIC

Catalog	og Connection Outside Diameter F		Pressure Rating	Dimension inches (mm)		
Number	Туре	Tube-Inches	psi (bar)	A Hex	В	
20JC4	JIC	1/4	20000 (1378.9)	0.75 (19.1)	1.00 (25.4)	
20JC6	JIC	3/8	20000 (1378.9)	0.94 (23.8)	1.13 (28.6)	
20JC8	JIC	1/2	20000 (1378.9)	1.19 (30.1)	1.31 (58.6)	

A Hex Hex

Tube cap configuration may vary from outline shown.

* Maximum pressure rating must not exceed rating of tubing used.

Note: All tube caps are furnished with connection components unless otherwise specified.

All dimensions for reference only and subject to change.

Female Tube Caps and Plugs - Reverse High Pressure (M Style)

Catalog Connection		Outside Diameter P	Outside Diameter Pressure Rating	Dimension inches (mm)	
Number	Туре			A Hex	В
26RHC16	RHP Cap	1	26000 (1792.6)	1.38 (34.9)	1.13 (28.6)
26RHP16	RHP Plug	1	26000 (1792.6)		

Both caps and plug required.

Gauge Connectors

Parker Autoclave Engineers offers a line of gauge connectorsused to connect pressure lines to pressure gauges. Gauge connectors can be connected to gauges with tapered and straight pipe threads, or high-pressure connections.



Gauge Connectors

To Fit This Gauge Connection			1/4" NPT	1/2" NPT	1/2" NPS
Seal Type			Tube Cone	Tube Cone	Gasket
With This Fem	With This Female Tubing Connection			60,000 PSI (4136.8 bar)	60,000 PSI (4136.8 bar)
High	1/4"	F250C	CG4400	CG4800	CG8400
Pressure	9/16"	F562C		CG9800	CG8900

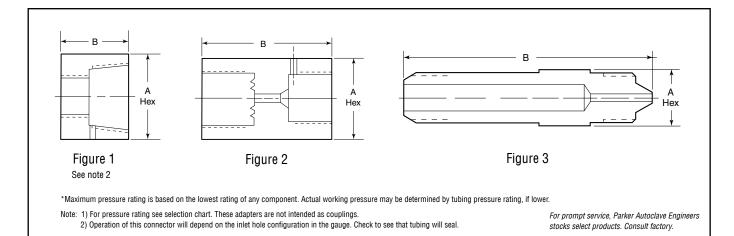
Gauge Connectors

To Fit This Gauge Connection			1/4" High Pressure F250C		
Seal Type			H.P. Cone		
With This Ma	ale Tubinç	connection	20,000 PSI (1378.9 bar)		
Medium Pressure	0/16"		101F-1707		

NPT: National Pipe Thread NPS: National Straight Pipe Thread Note: For gauge connector without collars and glands, add the following suffix: -WO For gauge connector for sour gas applications, add the following suffix: -SOG or -SOGWO

Gauge Connectors

Catalog	Gauge	Outside Diameter	Pressure Rating	Dimension ii	nches (mm)	
Number	Connection Type	Tube-Inches	psi (bar)	A Hex	В	
CG4400	Tube Cone	1/4	60000 (4136.7)	1.00 (25.4)	.813 (20.6)	
CG4800	Tube Cone	1/4	60000 (4136.7)	1.19 (30.1)	.94 (23.8)	See Figure 1
CG9800	Tube Cone	9/16	60000 (4136.7)	1.50 (38.1)	1.25 (31.8)	
CG8400	Gasket	1/4	60000 (4136.7)	1.19 (30.1)	1.19 (30.1)	See Figure 2
CG8900	Gasket	9/16	60000 (4136.7)	1.38 (34.9)	2.25 (57.1)	See Figure 2
101F-1707	1/4" High Pressure	9/16	20000 (1379)	0.63 (15.9)	2.75 (69.9)	See Figure 3



WARNING

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