

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/adaptor 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.



www.autoclave.com

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).

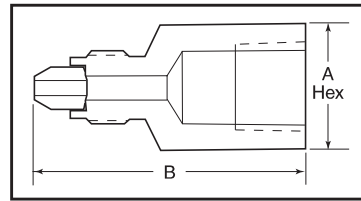
Connection Size and Type		SpeedBite				Medium Pressure						
		1/8" W125	1/4" SW250	3/8" SW375	1/2" SW500	1/4" SF250CX	3/8" SF375CX	9/16" SF562CX	3/4" SF750CX	1" SF1000CX	1-1/2" SF1500CX	
MALE END	SpeedBite	Fits this Female Connection	15,000 (1034.20)	15,000 (1034.20)	15,000 (1034.20)	10,000 (689.45)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	20,000 (1378.93)	15,000 (1034.20)
		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		6M24C2	6M26C2	4M28C2	6M24C6	6M26C6	6M29C6			15M224C6
		1/4" SW250	6M42D1		6M46D2	4M48D2	6M44D6	6M46D6	6M49D6	6M412D6		
	3/8" SW375	6M62D1	6M64D2		4M68D2	6M64D6	6M66D6	6M69D6	6M612D6	6M616D6	15M624D6	
	1/2" SW500	4M82D1	4M84D2	4M86D2		4M84D6	4M86D6	4M89D6	4M812D6	4M816D6		
	Medium Pressure	1/4" SF250CX	15MX42K1	6MX44K2	6MX46K2	4MX48K2	20M44K6	20M46K6	20M49K6	20M412K6	20M416K6	15M424K6
		3/8" SF375CX	15MX62K1	6MX64K2	6MX66K2	4MX68K2	20M64K6	20M66K6	20M69K6	20M612K6	20M616K6	
		9/16" SF562CX	15MX92K1	6MX94K2	6MX96K2	4MX98K2	20M94K6	20M96K6	20M99K6	20M912K6	20M916K6	15M924K6
		3/4" SF750CX	15MX122K1	6MX124K2	6MX126K2	4MX128K2	20M124K6	20M126K6	20M129K6	20M1212K6	20M1216K6	15M1224K6
		1" SF1000CX	15MX162K1	6MX164K2	6MX166K2	4MX168K2	20M164K6	20M166K6	20M169K6	20M1612K6	20M1616K6	15M1624K6
	1-1/2" SF1500CX		15M244K2	15M246K2		15M244K6	15M246K6	15M249K6	15M2412K6	15M2416K6	15M2424K6	
High Pressure	1" F1000C43										15M1624B6	
	1/4" F250C	15M42B1	6M44B2	6M46B2	4M48B2	20M44B6	20M46B6	20M49B6	20M412B6		15M4248B6	
	5/16" F312C150		6M54B2	6M56B2	4M58B2	20M54B6	20M56B6	20M59B6	20M512B6			
	3/8" F375C	15M62B1	6M64B2	6M66B2	4M68B2	20M64B6	20M66B6	20M69B6	20M612B6	20M616B6		
	9/16" F562C	15M92B1	6M94B2	6M96B2	4M98B2	20M94B6	20M96B6	20M99B6	20M912B6	20M916B6		
	9/16" F562C40		6M94G2						20M912G6			
Flat Top Flat Bottom	7/16" F437FB	15M72E1	6M74E2	6M76E2	4M78E2	15M74E6	15M76E6	15M79E6				
	9/16" F562FB	15M92E1	6M94E2	6M96E2	4M98E2	15M94E6	15M96E6	15M99E6	15M912E6	15M916E6		
	9/16" F562FT	15M92R1	6M94R2	6M96R2	4M98R2	15M94R6	15M96R6	15M99R6	15M912R6	15M916R6		
	3/4" F750FB	15M122E1	6M124E2	6M126E2	4M128E2	15M124E6	15M126E6	15M129E6	15M1212E6	15M1216E6		
National Pipe Thread (NPT)	1/8" NPT	15M22N1	15M24N2	15M26N2	10M28N2	15M24N6	15M26N6	15M29N6				
	1/4" NPT	15M42N1	15M44N2	15M46N2	10M48N2	15M44N6	15M46N6	15M49N6	15M412N6	15M416N6	15M424N6	
	3/8" NPT	15M62N1	15M64N2	15M66N2	10M68N2	15M64N6	15M66N6	15M69N6	15M612N6	15M616N6		
	1/2" NPT	15M82N1	15M84N2	15M86N2	10M88N2	15M84N6	15M86N6	15M89N6	15M812N6	15M816N6	15M824N6	
	3/4" NPT		10M124N2	10M126N2	10M128N2	10M124N6	10M126N6	10M129N6	10M1212N6	10M1216N6		
	1" NPT			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.

Male End Fits this Connection	Female End	Catalog Number	Dimension inches (mm)	
			A Hex	B
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	SF1500CX	15M1624K6	2.25 (57.2)	4.13 (105.)
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 Fits this Connection	Female End	Catalog Number	Dimension inches (mm)	
			A Hex	B
SF1500CX	SW250	15M244K2	1.88 (47.75)	2.25 (57.17)
SF1500CX	SW375	15M246K2	1.88 (47.75)	2.25 (57.17)
SF1500CX	SF250CX	15M244K6	1.88 (47.75)	3.31 (84.12)
SF1500CX	SF375CX	15M246K6	1.88 (47.75)	2.50 (63.50)
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	SF1500CX	15M2424K6	2.50 (63.5)	4.44 (112.8)
SF1500CX	F1000C43	15M2416K3	2.25 (57.15)	4.38 (111.25)
SF1500CX	F250C	15M244K3	1.80 (47.75)	2.50 (63.50)
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)
SF1500CX*	3/4 NPT	10M2412K8	1.75 (44.5)	4.06 (103.1)
SF1500CX*	1" NPT	10M2416K8	1.75 (44.5)	4.06 (103.1)

* Note: O.D. is 2.13 (54.10) supplied with flats.

High Pressure

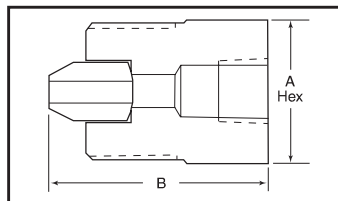
Male End Fits this Connection	Female End	Catalog Number	Dimension inches (mm)	
			A Hex	B
F1000C43	W125			
F1000C43	SW250			
F1000C43	SW375			
F1000C43	SW500			
F1000C43	SF250CX			
F1000C43	SF375CX			
F1000C43	SF562CX			
F1000C43	SF750CX			
F1000C43	SF1000CX			
F1000C43	SF1500CX	15M1624B6	2.25 (57.2)	4.44 (112.7)
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 Fits this Connection	Female End	Catalog Number	Dimension inches (mm)	
			A Hex	B
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	SF1500CX	15M424B6	2.25 (57.2)	3.56 (90.42)
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.



Note: Adapter configurations may vary from outline shown

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