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.

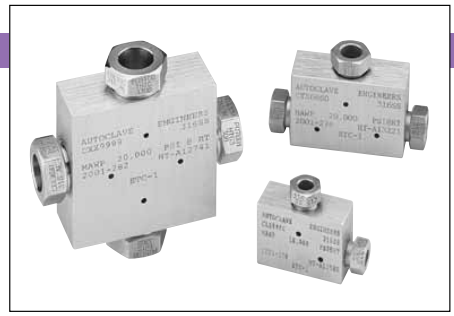
Parker

Autoclave Engineers

www.autoclave.com

Medium Pressure Fittings

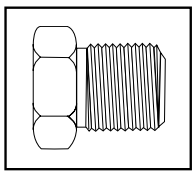
Pressures to 20,000 psi (1379 bar)



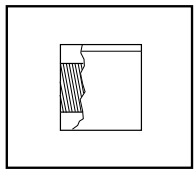
Parker Autoclave Engineers medium pressure fittings, Series SF, are designed for use with Series 20SM medium pressure valves and Parker Autoclave Engineers' medium pressure tubing. They incorporate medium pressure coned-and-threaded connections with orifices sized to match the high-flow Series 20SC valves.

Connection Components

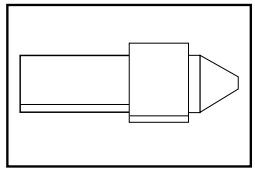
All Parker Autoclave valves and fittings are supplied complete with appropriate glands and collars. To order these components separately, use order numbers listed. When using plug, collar is not required.



Gland
CGLX ( )



Collar
CCLX ( )



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.

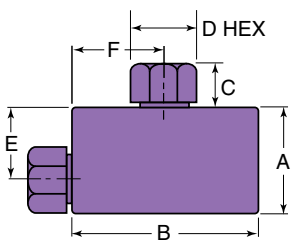
Note: Special material glands may be supplied with four flats in place of standard hex.

Catalog Number	Connection Type	Outside Diameter Tube	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm)							Block Thickness	Fitting Pattern
					A	B	C	D Typical	E	F	G Thickness		
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 Figure 1**
CLX12	SF750CX	3/4	20,000	0.516	2.25	3.00	0.62	1.19	1.50	1.50		1.38	
		(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.

Figure 1



Elbow

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

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

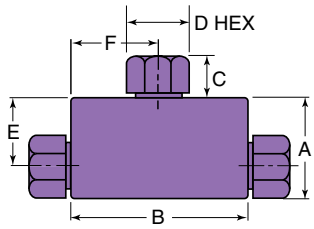
Catalog Number	Connection Type	Outside Diameter Tube	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm)							Block Thickness	Fitting Pattern
					A	B	C	D Typical	E	F	G Thickness		
Tee													
CTX4440	SF250CX	1/4 **(6.35)**	20,000 **(1378.93)**	0.125 **(3.18)**	1.12 **(28.45)**	1.50 **(38.10)**	0.38 **(9.53)**	0.50 **(12.70)**	0.75 **(19.05)**	0.75 **(19.05)**		0.62 **(15.75)**	**See Figure 2**
CTX6660	SF375CX	3/8 **(9.53)**	20,000 **(1378.93)**	0.219 **(5.56)**	1.38 **(35.05)**	2.00 **(50.80)**	0.44 **(11.10)**	0.62 **(15.75)**	1.00 **(25.40)**	1.00 **(25.40)**		0.75 **(19.05)**	
CTX9990	SF562CX	9/16 **(14.29)**	20,000 **(1378.93)**	0.359 **(9.12)**	1.75 **(44.45)**	2.50 **(63.50)**	0.53 **(13.46)**	0.94 **(23.88)**	1.25 **(31.75)**	1.25 **(31.75)**		1.00 **(25.40)**	
CTX12	SF750CX	3/4 **(19.05)**	20,000 **(1378.93)**	0.516 **(13.11)**	2.25 **(57.15)**	3.00 **(76.20)**	0.62 **(15.75)**	1.19 **(30.23)**	1.50 **(38.10)**	1.50 **(38.10)**		1.38 **(34.93)**	
CTX16	SF1000CX	1 **(25.40)**	20,000 **(1378.93)**	0.688 **(17.48)**	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)**	
CTX24	SF1500CX	1-1/2 **(38.10)**	15,000 **(1034.20)**	0.94 **(23.80)**	4.00 **(101.60)**	5.75 **(146.05)**	1.12 **(28.45)**	1.88 **(47.63)**	2.88 **(73.03)**	2.88 **(73.03)**		2.25 **(57.15)**	
Cross													
CXX4444	SF250CX	1/4 **(6.35)**	20,000 **(1378.93)**	0.125 **(3.18)**	1.50 **(38.10)**	1.50 **(38.10)**	0.38 **(9.53)**	0.50 **(12.70)**	0.75 **(19.05)**	0.75 **(19.05)**		0.62 **(15.75)**	**See Figure 3**
CXX6666	SF375CX	3/8 **(9.53)**	20,000 **(1378.93)**	0.219 **(5.56)**	2.00 **(50.80)**	2.00 **(50.80)**	0.44 **(11.10)**	0.62 **(15.75)**	1.00 **(25.40)**	1.00 **(25.40)**		0.75 **(19.05)**	
CXX9999	SF562CX	9/16 **(14.29)**	20,000 **(1378.93)**	0.359 **(9.12)**	2.50 **(63.50)**	2.50 **(63.50)**	0.53 **(13.46)**	0.94 **(23.88)**	1.25 **(31.75)**	1.25 **(31.75)**		1.00 **(25.40)**	
CXX12	SF750CX	3/4 **(19.05)**	20,000 **(1378.93)**	0.516 **(13.11)**	3.00 **(76.20)**	3.00 **(76.20)**	0.62 **(15.75)**	1.19 **(30.23)**	1.50 **(38.10)**	1.50 **(38.10)**		1.38 **(34.93)**	
CXX16	SF1000CX	1 **(25.40)**	20,000 **(1378.93)**	0.688 **(17.48)**	4.12 **(104.65)**	4.12 **(104.65)**	0.72 **(18.29)**	1.38 **(35.05)**	2.06 **(52.32)**	2.06 **(52.32)**		1.75 **(44.45)**	
CXX24	SF1500CX	1-1/2 **(38.10)**	15,000 **(1034.20)**	0.94 **(23.80)**	5.75 **(146.05)**	5.75 **(146.05)**	1.12 **(28.45)**	1.88 **(47.63)**	2.88 **(73.03)**	2.88 **(73.03)**		2.25 **(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.

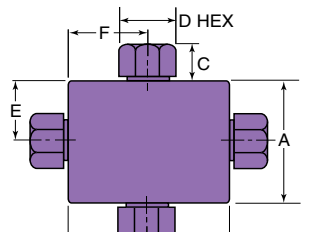
For mounting hole option add suffix PM to catalog number. Consult factory for mounting hole dimensions.

Figure 2



Tee

Figure 3



Cross

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

Tel: +45 63 12 83 00 | Email: ps@hymatik.com | www.hymatik.com | Hvidkaervej 27a, DK-5250 Odense SV, Denmark

Catalog Number	Connection Type	Outside Diameter Tube	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm)							Block Thickness	Fitting Pattern
					A	B	C	D Typical	E	F	G Thickness		

Straight Coupling / Union Coupling

20FX4466	SF250CX	1/4	20,000	0.125	0.62	1.62	0.38	0.50	Straight	See Figure 4
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	
20FX12	SF750CX	3/4	20,000	0.516	1.38	2.50	0.62	1.19	Straight	
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

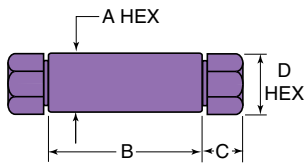
20BFX4466	SF250CX	1/4	20,000	0.125	0.81	1.88	0.38	0.50	0.53	1.00	0.38		See Figure 5
		(6.35)	**(1378.93)**	**(3.18)**	**(20.57)**	**(47.75)**	**(9.53)**	**(12.70)**	**(13.46)**	**(25.40)**	**(9.53)**		
20BFX6666	SF375CX	3/8	20,000	0.219	0.94	2.00	0.44	0.62	0.62	1.00	0.38		
		(9.53)	**(1378.93)**	**(5.56)**	**(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)**		
20BFX12	SF750CX	3/4	20,000	0.516	1.69	2.62	0.62	1.19	0.91	1.88	0.38		
		(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)**		

*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.

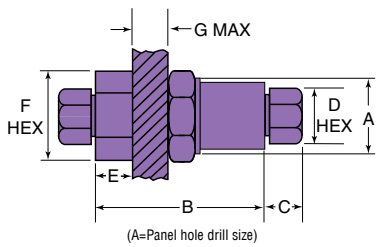
Union Couplings are designed with a removable seat insert allowing disassembly and tubing removal without the necessity of loosening other items in a line.

Figure 4



Straight Coupling / Union Coupling

Figure 5



Bulkhead Coupling

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