

# Fittings and Tubing - Low Pressure Fittings

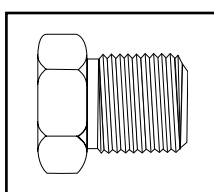
## Pressures to 15,000 psi (1034 bar)

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.

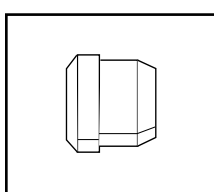


## Connection Components

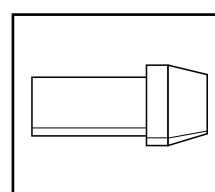
All valves and fittings are supplied complete with appropriate glands and compression sleeves. To order these components separately, use order numbers listed. When using plug, sleeve is not required.



**Gland**  
SMN ( )



**Sleeve**  
SSL ( )



**Plug**  
SP ( )

Add tube size ( )

- 1/8" - 20
- 1/4" - 40
- 3/8" - 60
- 1/2" - 80

† 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.

Example: 1/4" Gland - SMN 40

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

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.

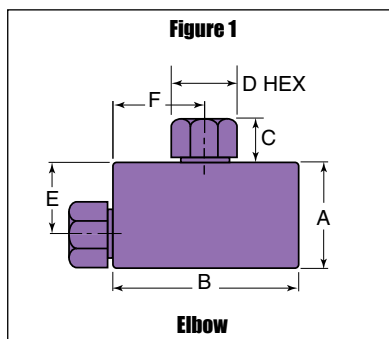
Catalog Number	Connection Type	Outside Diameter Tube	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm)							Block Thickness	Fitting Pattern
					A	B	C	D Typical	E	F	G Thickness		

### Elbow

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

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



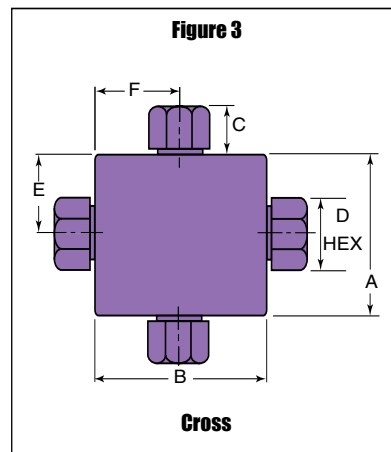
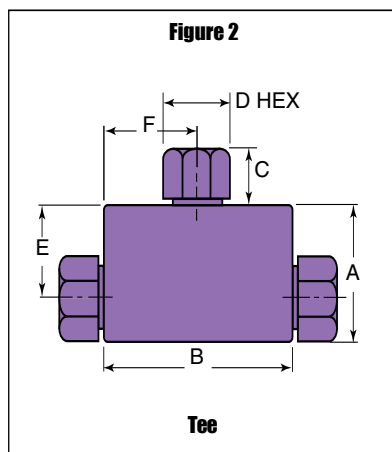
Catalog Number	Connection Type	Outside Diameter Tube	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm)							Block Thickness	Fitting Pattern
					A	B	C	D Typical	E	F	G Thickness		

### Tee

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

### Cross

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



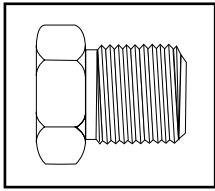
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# Fittings and Tubing - Mini Series Fittings

**Pressure to 15,000 psi (1034 bar)**

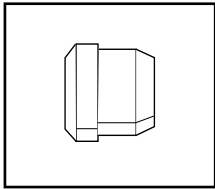
All Parker Autoclave Engineers valves and fittings are supplied complete with appropriate glands and compression sleeves. To order these components separately, use order numbers listed. When using plug, sleeve is not required.



**Gland**  
SMN ( )

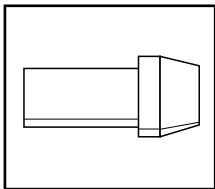
Add gland size ( ) Example: SMN - 10  
 1/16" - 10  
 1/16" - 10-10mm  
 1/8" - 20  
 1/8" - 20-10mm

Note: Gland sizes differ as follows:  
 Standard is 3/8 hex  
 10 mm is 10 millimeter hex



**Sleeve**  
SSL ( )

Add tube size for sleeve and plug ( ) Example: 1/8" Sleeve SSL20  
 1/16" - 10  
 1/8" - 20



**Plug**  
SP ( )

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		

## Elbow

3/8 inch hex glands (D Dimension)

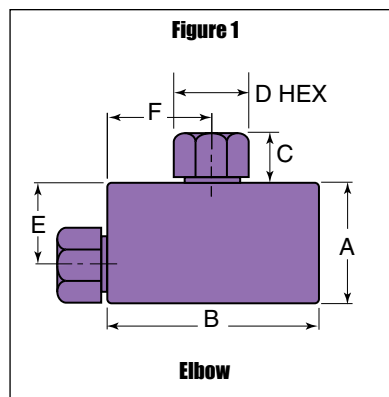
MLE1100	W062	1/16 (1.59)	15,000 (1034.20)	0.055 (1.40)	1.00 (25.40)	1.00 (25.40)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)		0.56 (14.27)	See Figure 1
MLE2200	W125	1/8 (3.18)	15,000 (1034.20)	0.093 (2.36)	1.00 (25.40)	1.00 (25.40)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)		0.56 (14.27)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

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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			

**Tee**

3/8 inch hex glands (D Dimension)

MTE1110	W062	1/16 (1.59)	15,000 (1034.20)	0.055 (1.40)	1.00 (25.40)	1.38 (34.93)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)		0.56 (14.27)	<b>See Figure 2</b>
MTE2220	W125	1/8 (3.18)	15,000 (1034.20)	0.093 (2.36)	1.00 (25.40)	1.38 (34.93)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)		0.56 (14.27)	
<b>10 millimeter hex glands (D Dimension)</b>													
MT1110	W062	1/16 (1.59)	15,000 (1034.20)	0.055 (1.40)	1.00 (25.40)	1.38 (34.93)	0.31 (7.87)	0.39 (10.00)	0.69 (17.45)	0.69 (17.45)		0.56 (14.27)	
MT2220	W125	1/8 (3.18)	15,000 (1034.20)	0.093 (2.36)	1.00 (25.40)	1.38 (34.93)	0.31 (7.87)	0.39 (10.00)	0.69 (17.45)	0.69 (17.45)		0.56 (14.27)	

**Cross**

3/8 inch hex glands (D Dimension)

MXE1111	W062	1/16 (1.59)	15,000 (1034.20)	0.055 (1.40)	1.38 (34.93)	1.38 (34.93)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)		0.56 (14.27)	<b>See Figure 3</b>
MXE2222	W125	1/8 (3.18)	15,000 (1034.20)	0.093 (2.36)	1.38 (34.93)	1.38 (34.93)	0.31 (7.87)	0.38 (9.53)	0.69 (17.45)	0.69 (17.45)		0.56 (14.27)	
<b>10 millimeter hex glands (D Dimension)</b>													
MX1111	W062	1/16 (1.59)	15,000 (1034.20)	0.055 (1.40)	1.38 (34.93)	1.38 (34.93)	0.31 (7.87)	0.39 (10.00)	0.69 (17.45)	0.69 (17.45)		0.56 (14.27)	
MX2222	W125	1/8 (3.18)	15,000 (1034.20)	0.093 (2.36)	1.38 (34.93)	1.38 (34.93)	0.31 (7.87)	0.39 (10.00)	0.69 (17.45)	0.69 (17.45)		0.56 (14.27)	

