Fittings, 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).

Parker

Autoclave Engineers®

www.autoclave.com

Fittings, Tubing & Nipples - P Series

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)



Pipe Elbow

Catalog Number	Connection Type	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm) A	B	C	D	Block Thickness	Fitting Pattern
PL4400	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)	See Figure 1
PL6600	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)	
PL8800	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)	
PL12	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)	
PL16	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 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)	See Figure 2
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)	
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)	

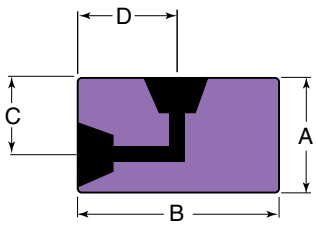
Pipe Cross

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

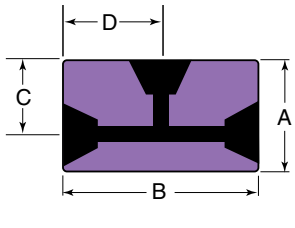
For prompt service, Parker Autoclave Engineers stocks select products. Consult your local representative. For mounting hole option add suffix PM to catalog number. Consult factory for mounting hole dimensions.

Figure 1



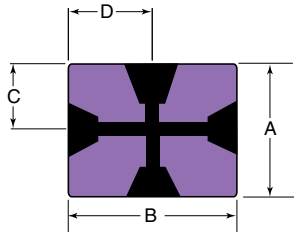
Elbow

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.

Catalog Number	Connection Type	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - in.(mm) A	Dimensions - in.(mm) B	Fitting Pattern

Pipe Coupling

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

Catalog Number	Connection Type	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm) A	B	C	D	E Max	Fitting Pattern

Pipe Bulkhead Coupling

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

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

Pipe Plugs

PP40	1/4" NPT	15,000 **(1034.20)**	0.63 **(16.00)**	1.12 **(28.45)**	**See Figure 6**
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)**	
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)**	

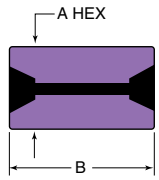
*Maximum pressure rating is based on the lowest rating of any component.
+ distance across flats

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 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.

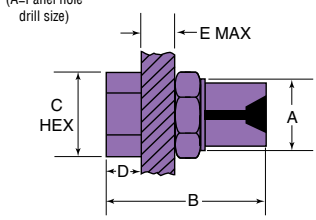
NOTE: Special material components may be supplied with four flats in place of standard hex.

Figure 4



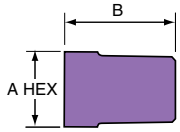
Coupling

Figure 5



Bulkhead Coupling

Figure 6



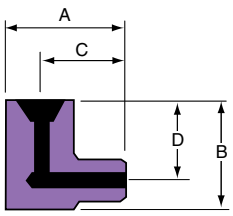
Plugs

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Pressures to 15,000 (1034 bar)

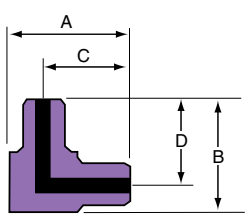
Catalog Number	Connection Type	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm)				Block Thickness	Fitting Pattern
				A	B	C	D		
Street Pipe Elbow									
SPL4400	1/4" NPT	15,000 (1034.20)	0.219 (5.54)	1.50 (38.10)	1.50 (38.10)	1.13 (28.70)	1.00 (25.40)	0.75 (19.05)	See Figure 1
SPL6600	3/8" NPT	15,000 (1034.20)	0.297 (7.54)	1.75 (44.75)	1.50 (38.10)	1.25 (31.75)	1.00 (25.40)	1.00 (25.40)	
SPL8800	1/2" NPT	15,000 (1034.20)	0.359 (9.12)	2.25 (57.15)	2.00 (50.80)	1.63 (41.40)	1.25 (31.75)	1.25 (31.75)	
SPL12	3/4" NPT	10,000 (689.46)	0.609 (14.47)	2.50 (63.50)	2.62 (66.55)	1.75 (44.45)	1.31 (33;27)	1.50 (38.10)	
SPL16	1" NPT	10,000 (689.46)	0.765 (19.43)	4.12 (104.65)	2.50 (63.50)	2.69 (68.33)	1.75 (44.45)	1.75 (44.45)	
Male Pipe Elbow									
MPL4400	1/4" NPT	15,000 (1034.20)	0.219 (5.54)	1.50 (38.10)	1.50 (38.10)	1.13 (28.70)	1.13 (28.70)	0.75 (19.05)	See Figure 2
MPL6600	3/8" NPT	15,000 (1034.20)	0.297 (7.54)	1.75 (44.45)	1.75 (44.45)	1.25 (31.75)	1.25 (31.75)	1.00 (25.40)	
MPL8800	1/2" NPT	15,000 (1034.20)	0.359 (9.12)	2.00 (50.80)	2.00 (50.80)	1.50 (38.10)	1.50 (38.10)	1.00 (25.40)	
MPL12	3/4" NPT	10,000 (689.46)	0.609 (14.47)	2.62 (66.55)	2.62 (66.55)	1.75 (44.45)	1.75 (44.45)	1.50 (38.10)	
MPL16	1" NPT	10,000 (689.46)	0.765 (19.43)	3.00 (76.20)	3.00 (76.20)	2.13 (54.10)	2.13 (54.10)	1.38 (35.05)	
Male Pipe Tee									
MPT4440	1/4" NPT	15,000 (1034.20)	0.219 (5.54)	2.25 (57.15)	1.50 (38.10)	1.13 (28.70)	1.13 (28.70)	0.75 (19.05)	See Figure 3
MPT6660	3/8" NPT	15,000 (1034.20)	0.297 (7.54)	2.50 (63.50)	1.75 (44.45)	1.75 (44.45)	1.25 (31.75)	1.00 (25.40)	
MPT8880	1/2" NPT	15,000 (1034.20)	0.359 (9.12)	3.00 (76.20)	2.00 (50.80)	1.50 (38.10)	1.50 (38.10)	1.00 (25.40)	
MPT12	3/4" NPT	10,000 (689.46)	0.609 (14.47)	3.50 (88.90)	2.62 (66.55)	1.75 (44.45)	1.75 (44.45)	1.50 (38.10)	
MPT16	1" NPT	10,000 (689.46)	0.765 (19.43)	4.12 (104.65)	3.00 (76.20)	2.13 (54.10)	2.13 (54.10)	1.75 (44.45)	

Figure 1



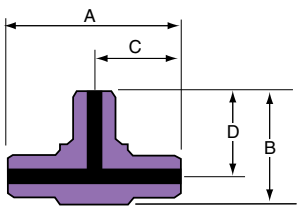
Street Elbow

Figure 2



Male Elbow

Figure 3



Male Tee

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Catalog Number	Connection Type	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm)				Block Thickness	Fitting Pattern
				A	B	C	D		

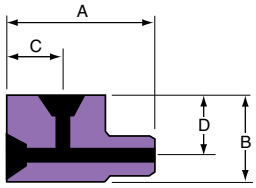
Street Pipe Tee

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

Male Branch Tee

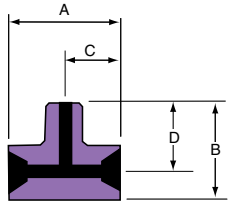
BPT4440	1/4" NPT	15,000 **(1034.20)**	0.219 **(5.54)**	2.00 **(50.80)**	1.50 **(38.10)**	1.00 **(25.40)**	1.13 **(28.70)**	0.75 **(19.05)**	**See Figure 5**
BPT6660	3/8" NPT	15,000 **(1034.20)**	0.297 **(7.54)**	2.00 **(50.80)**	1.75 **(44.45)**	1.00 **(25.40)**	1.25 **(31.75)**	1.00 **(25.40)**	
BPT8880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

Figure 4



Street Tee

Figure 5



Branch Tee

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.

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