

# Fittings, Tubing & Nipples

## P Series Pipe Fittings

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

Since 1945 Autoclave Engineers has designed and built premium quality valves, fittings and tubing. This commitment to engineering and manufacturing excellence has earned Autoclave a reputation for reliable, efficient product performance. 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 0°F (-17.8°C) to 400°F (204°C).

**Autoclave  
Engineers** 

Fluid Components  
Division of Snap-tite, Inc.  
[www.autoclave.com](http://www.autoclave.com)

# Pipe Fittings

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

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

### Pipe Elbow

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

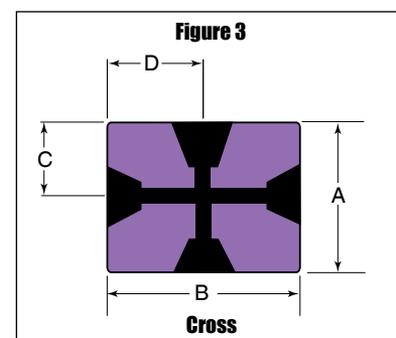
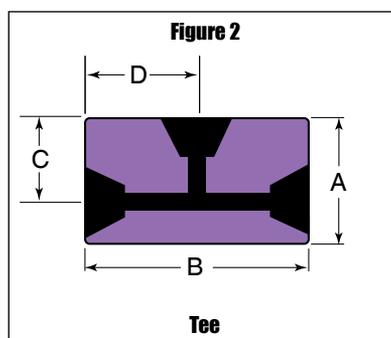
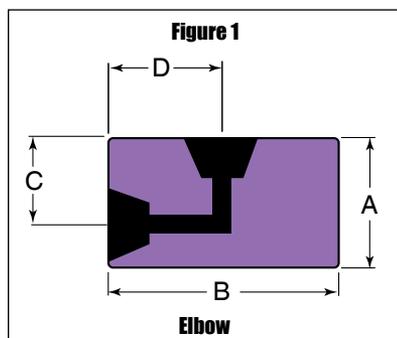
PT4440	1/4" NPT	15,000 (1034.20)	0.42 (10.67)	1.13 (28.58)	1.50 (38.10)	0.75 (19.05)	0.75 (19.05)	0.75 (19.05)	See Figure 2
PT6660	3/8" NPT	15,000 (1034.20)	0.56 (14.22)	1.50 (38.10)	2.00 (50.80)	1.00 (25.40)	1.00 (25.40)	1.00 (25.40)	
PT8880	1/2" NPT	15,000 (1034.20)	0.69 (17.53)	1.88 (47.75)	3.00 (76.20)	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, Autoclave stocks select products. Consult your local representative. For mounting hole option add suffix PM to catalog number. Consult factory for mounting hole dimensions.



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

### Pipe Coupling

15F4488	1/4" NPT	15,000 (1034.20)	0.42 (10.67)	.075 (19.05)	1.50 (38.10)	<b>See Figure 4</b>
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)				E Max	Fitting Pattern
				A	B	C	D		

### 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 (9.65)	<b>See Figure 5</b>
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 (9.65)	
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 (9.65)	
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 (9.65)	
10BF161688	1" NPT	10,000 (689.46)	1.13 (28.58)	1.94 (49.28)	3.50 (88.90)	1.87 <sup>+</sup> (47.50)	1.50 (38.10)	0.38 (9.65)	

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

### Pipe Plugs

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

#### 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.

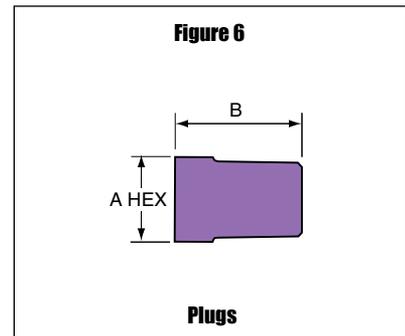
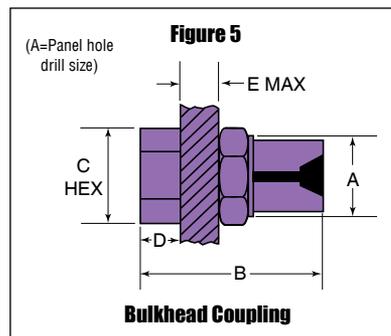
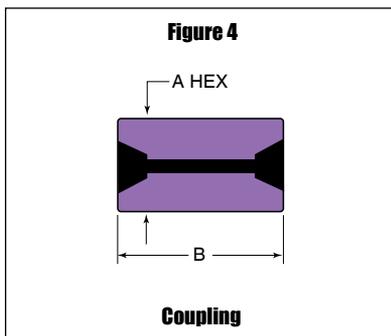
\*Maximum pressure rating is based on the lowest rating of any component.

+ distance across flats

All dimensions for reference only and subject to change.

For prompt service, Autoclave stocks select products.

Consult your local representative.



# 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

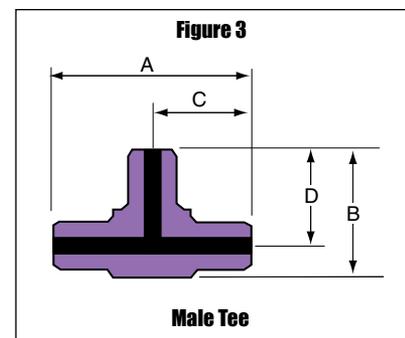
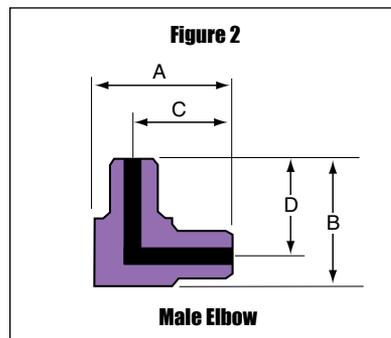
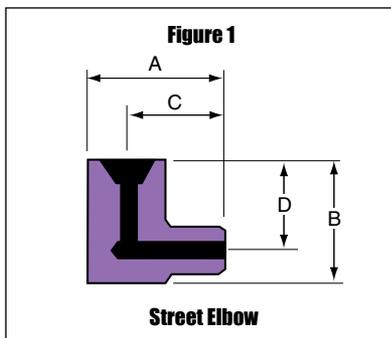
SPL4400	1/4" NPT	15,000 (1034.20)	0.219 (5.54)	1.50 (38.10)	1.50 (38.10)	1.13 (28.70)	1.00 (25.40)	0.75 (19.05)	See Figure 1
SPL6600	3/8" NPT	15,000 (1034.20)	0.297 (7.54)	1.75 (44.75)	1.50 (38.10)	1.25 (31.75)	1.00 (25.40)	1.00 (25.40)	
SPL8800	1/2" NPT	15,000 (1034.20)	0.359 (9.12)						
SPL12	3/4" NPT	10,000 (689.46)	0.609 (15.47)						
SPL16	1" NPT	10,000 (689.46)	0.765 (19.43)						

## Male Pipe Elbow

MPL4400	1/4" NPT	15,000 (1034.20)	0.219 (5.54)	1.50 (38.10)	1.50 (38.10)	1.25 (31.75)	1.25 (31.75)	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 (15.47)	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 (15.47)	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)	



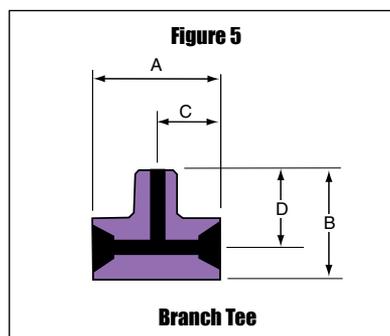
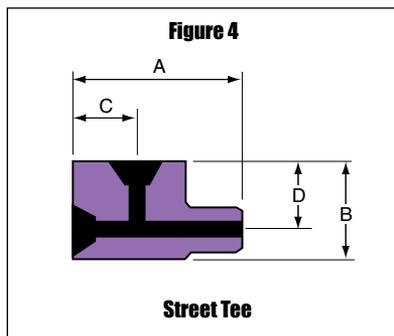
Catalog Number	Connection Type	Pressure Rating psi (bar)*	Minimum Opening	Dimensions - inches (mm)				Block Thickness	Fitting Pattern
				A	B	C	D		

### 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)	1.75 (44.45)	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)	



#### 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, Autoclave Engineers supplies pipe nipples in various sizes and lengths for pipe valves and fittings.

### Special lengths

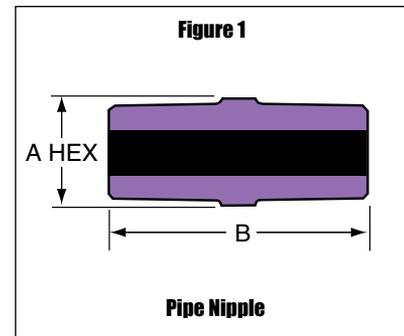
In addition to the standard lengths listed in the table below, nipples are available in custom lengths. Consult factory.



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

### Pipe Hex Close Nipples

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



### Pipe Hex Nipples

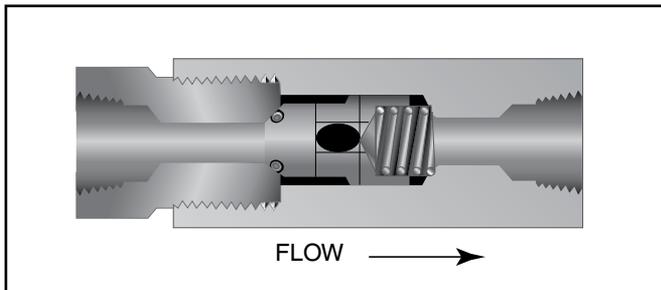
15MAP4P4-4	1/4" NPT	15,000 (1034.20)	0.219 (5.54)	0.63 (16.00)	4.00 (101.60)	See Figure 1
15MAP4P4-6	1/4" NPT	15,000 (1034.20)	0.219 (5.54)	0.63 (16.00)	6.00 (152.40)	
15MAP4P4-8	1/4" NPT	15,000 (1034.20)	0.219 (5.54)	0.63 (16.00)	8.00 (203.20)	
15MAP6P6-4	3/8" NPT	15,000 (1034.20)	0.297 (7.54)	0.75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

\*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



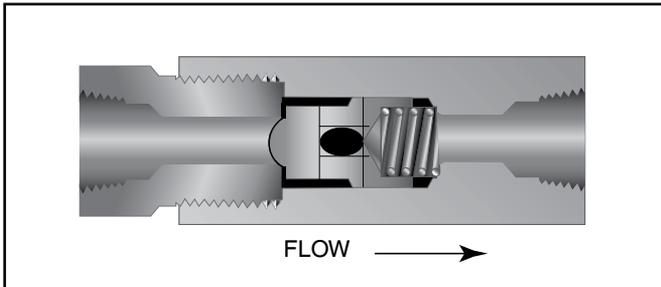
Minimum operating temperature for standard o-ring check valves 0°F (17.8°C).

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 Teflon 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° (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.

# Pipe Check Valves

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

## Pipe O-Ring Check Valves

CP04400	1/4" NPT	15,000 <b>(1034.20)</b>	0.12 <b>(3.05)</b>	.28	3.37 <b>(85.60)</b>	2.38 <b>(60.33)</b>	0.81 <b>(20.57)</b>	0.81 <b>(20.57)</b>	<b>See Figure 1</b>
CP06600	3/8" NPT	15,000 <b>(1034.20)</b>	0.22 <b>(5.59)</b>	.84	3.95 <b>(100.33)</b>	2.88 <b>(73.15)</b>	1.00 <b>(25.40)</b>	1.00 <b>(25.40)</b>	
CP08800	1/2" NPT	15,000 <b>(1034.20)</b>	0.36 <b>(9.14)</b>	2.30	5.36 <b>(136.14)</b>	3.88 <b>(98.55)</b>	1.38 <b>(35.05)</b>	1.19 <b>(30.23)</b>	
CP012	3/4" NPT	10,000 <b>(689.46)</b>	0.52 <b>(13.21)</b>	4.70	6.29 <b>(159.77)</b>	4.75 <b>(120.65)</b>	1.75 <b>(44.45)</b>	1.38 <b>(35.05)</b>	
CP016	1" NPT	10,000 <b>(689.46)</b>	0.69 <b>(17.53)</b>	7.40	7.33 <b>(186.18)</b>	5.75 <b>(146.05)</b>	1.88* <b>(47.75)</b>	1.88 <b>(47.75)</b>	

## Pipe Ball Check Valves

CPB4400	1/4" NPT	15,000 <b>(1034.20)</b>	0.12 <b>(3.05)</b>	.28	3.37 <b>(85.60)</b>	2.38 <b>(60.33)</b>	0.81 <b>(20.57)</b>	0.81 <b>(20.57)</b>	<b>See Figure 1</b>
CPB6600	3/8" NPT	15,000 <b>(1034.20)</b>	0.22 <b>(5.59)</b>	.84	3.95 <b>(100.33)</b>	2.88 <b>(73.15)</b>	1.00 <b>(25.40)</b>	1.00 <b>(25.40)</b>	
CPB8800	1/2" NPT	15,000 <b>(1034.20)</b>	0.36 <b>(9.12)</b>	2.30	5.36 <b>(136.14)</b>	3.88 <b>(98.55)</b>	1.38 <b>(35.05)</b>	1.19 <b>(30.23)</b>	
CPB12	3/4" NPT	10,000 <b>(689.46)</b>	0.52 <b>(13.21)</b>	4.70	6.29 <b>(159.77)</b>	4.75 <b>(120.65)</b>	1.75 <b>(44.45)</b>	1.38 <b>(35.05)</b>	
CPB16	1" NPT	10,000 <b>(689.46)</b>	0.69 <b>(17.53)</b>	7.40	7.33 <b>(186.18)</b>	5.75 <b>(146.05)</b>	1.88* <b>(47.75)</b>	1.88 <b>(47.75)</b>	

Check Flow - water, GPM

For flow rates using alternate fluids, consult Autoclave Engineers.

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

+ distance across flats

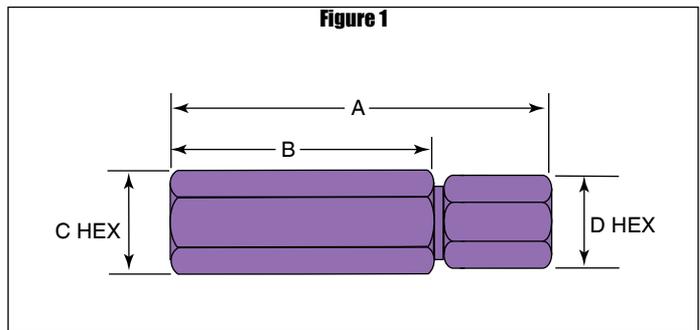
All dimensions for reference only and subject to change.

For prompt service, 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



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### ! WARNING !

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