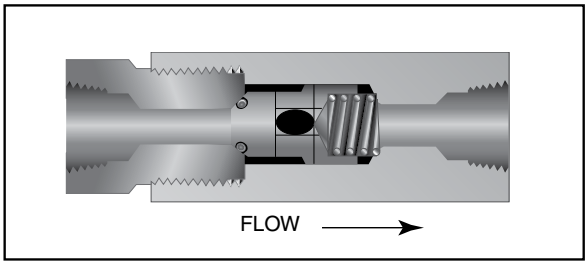
Pipe Check Valves

Pressures to 15,000 (1034 bar)

Pipe O-Ring Check Valves



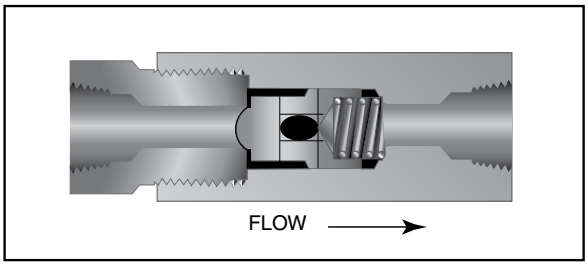
Minimum operating temperature for standard o-ring check valves 0°F (-17.8°C).

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 PTFE 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°F (-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.*

Special material check valves may be supplied with four flats in place of standard hex.

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Pipe Check Valves

Pipe O-Ring Check Valves

Catalog Number	Connection Type	Pressure Rating psi (bar)*	Minimum Opening	Rated Cv	Dimensions - inches (mm) A	B	C Hex	D Hex	Fitting Pattern
CPO4400	1/4" NPT	15,000 **(1034.20)**	0.12 **(3.05)**	.28	3.37 **(85.60)**	2.38 **(60.33)**	0.81 **(20.57)**	0.81 **(20.57)**	**See Figure 1**
CPO6600	3/8" NPT	15,000 **(1034.20)**	0.22 **(5.59)**	.84	3.95 **(100.33)**	2.88 **(73.15)**	1.00 **(25.40)**	1.00 **(25.40)**	
CPO8800	1/2" NPT	15,000 **(1034.20)**	0.36 **(9.14)**	2.30	5.36 **(136.14)**	3.88 **(98.55)**	1.38 **(35.05)**	1.19 **(30.23)**	
CPO12	3/4" NPT	10,000 **(689.46)**	0.52 **(13.21)**	4.70	6.29 **(159.77)**	4.75 **(120.65)**	1.75 **(44.45)**	1.38 **(35.05)**	
CPO16	1" NPT	10,000 **(689.46)**	0.69 **(17.53)**	7.40	7.71 **(195.83)**	5.75 **(146.05)**	1.88+ **(47.75)**	1.88 **(47.75)**	

Pipe Ball Check Valves

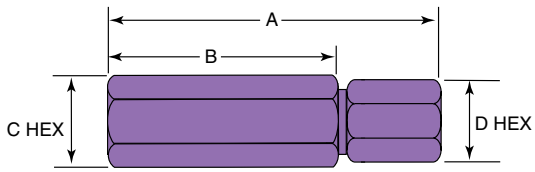
CPB4400	1/4" NPT	15,000 **(1034.20)**	0.12 **(3.05)**	.28	3.37 **(85.60)**	2.38 **(60.33)**	0.81 **(20.57)**	0.81 **(20.57)**	**See Figure 1**
CPB6600	3/8" NPT	15,000 **(1034.20)**	0.22 **(5.59)**	.84	3.95 **(100.33)**	2.88 **(73.15)**	1.00 **(25.40)**	1.00 **(25.40)**	
CPB8800	1/2" NPT	15,000 **(1034.20)**	0.36 **(9.12)**	2.30	5.36 **(136.14)**	3.88 **(98.55)**	1.38 **(35.05)**	1.19 **(30.23)**	
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*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 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



WARNING

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