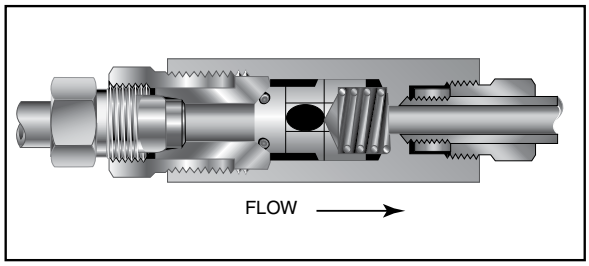
Medium Pressure Check Valves

Pressures to 20,000 (1379 bar)

O-Ring Check Valves



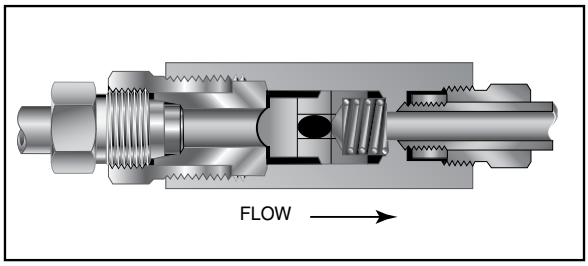
Minimum operating temperature for standard o-ring check valves 0°F (-17.8°C).
For low temperature option to -423°F (-252°C) add suffix LTTO (Low temperature spring & PTFE o-ring).

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.

Ball Check Valves



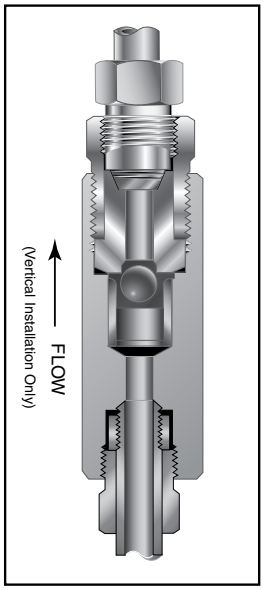
Minimum operating temperature for standard ball check valves -110°F (-79°C).
For low temperature option to -423°F (-252°C) add suffix LT (Low temperature spring).

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 1200°F (649°C). See Technical Information section for connection temperature limitations. (Not for use as a relief valve.)

The 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.

Ball Type Excess Flow Valves



Protects pressure gauges and pressure instrumentation from surges in flow or sudden venting in the event of line failure.

Materials: 316 Stainless Steel: body, cover, sleeve, cover gland. 300 Series Stainless Steel: ball.

Vertical Installation: Since this type of check valve employs a non-spring loaded ball, valve MUST be installed in VERTICAL position with arrow on valve body pointing UP. (cover gland up).

Resetting Valve: Equalize the pressure across the ball. The ball will drop and reset automatically.

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.*

CAUTION: *See Tubing section for proper selection of tubing.*
NOTE: *For optional material see Needle Valve Options section.*

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

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

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Medium Pressure Check Valves

Catalog Number	Fits Connection Type	Pressure Rating psi (bar)*	Orifice inches (mm)	Rated C_V	Dimensions - inches (mm)				
					A	B	C	D Typical	Hex
O-Ring Check Valves									
CXO4400	SF250CX	20,000 **(1378.93)**	0.125 **(3.18)**	0.28	2.94 **(74.68)**	2.50 **(63.50)**	0.38 **(9.53)**	0.50 **(12.70)**	0.81 **(20.57)**
CXO6600	SF375CX	20,000 **(1378.93)**	0.218 **(5.54)**	0.84	3.12 **(79.25)**	2.62 **(66.55)**	0.47 **(11.94)**	0.62 **(15.75)**	1.00 **(25.40)**
CXO9900	SF562CX	20,000 **(1378.93)**	0.359 **(9.12)**	2.30	4.18 **(106.17)**	3.50 **(88.90)**	0.53 **(13.46)**	0.94 **(23.88)**	1.38 **(35.05)**
CXO12	SF750CX	20,000 **(1378.93)**	0.516 **(13.11)**	4.70	5.50 **(139.70)**	4.75 **(120.65)**	0.62 **(15.75)**	1.19 **(30.23)**	1.75 **(44.45)**
CXO16	SF1000CX	20,000 **(1378.93)**	0.688 **(17.48)**	7.40	6.63 **(168.40)**	5.75 **(146.05)**	0.72 **(18.29)**	1.38 **(35.05)**	1.88† **(47.75)**
CXO24	SF1500CX	15,000 **(1034.20)**	0.94 **(23.80)**	14.00	9.01 **(228.85)**	7.25 **(184.15)**	1.12 **(28.45)**	1.88 **(47.75)**	3.00† **(76.20)**
Ball Check Valves									
CXB4400	SF250CX	20,000 **(1378.93)**	0.125 **(3.18)**	0.28	2.94 **(74.68)**	2.50 **(63.50)**	0.38 **(9.53)**	0.50 **(12.70)**	0.81 **(20.57)**
CXB6600	SF375CX	20,000 **(1378.93)**	0.218 **(5.54)**	0.84	3.12 **(79.25)**	2.62 **(66.55)**	0.47 **(11.94)**	0.62 **(15.75)**	1.00 **(25.40)**
CXB9900	SF562CX	20,000 **(1378.93)**	0.359 **(9.12)**	2.30	4.18 **(106.17)**	3.50 **(88.90)**	0.53 **(13.46)**	0.94 **(23.88)**	1.38 **(35.05)**
CXB12	SF750CX	20,000 **(1378.93)**	0.516 **(13.11)**	4.70	5.50 **(139.70)**	4.75 **(120.65)**	0.62 **(15.75)**	1.19 **(30.23)**	1.75 **(44.45)**
CXB16	SF1000CX	20,000 **(1378.93)**	0.688 **(17.48)**	7.40	6.63 **(168.40)**	5.75 **(146.05)**	0.72 **(18.29)**	1.38 **(35.05)**	1.88† **(47.75)**
CXB24	SF1500CX	15,000 **(1034.20)**	0.94 **(23.80)**	14.00	9.01 **(228.85)**	7.25 **(184.15)**	1.12 **(28.45)**	1.88 **(47.75)**	3.00† **(76.20)**
Ball Type Excess Flow Valves									
CXK4402	SF250CX	20,000 **(1378.93)**	0.125 **(3.18)**	0.037+	2.94 **(74.68)**	2.50 **(63.50)**	0.38 **(9.65)**	0.50 **(12.70)**	0.81 **(20.57)**
CXK6602	SF375CX	20,000 **(1378.93)**	0.218 **(5.54)**	0.066+	3.12 **(79.25)**	2.62 **(66.55)**	0.47 **(11.94)**	0.62 **(15.75)**	1.00 **(25.40)**
CXK9902	SF562CX	20,000 **(1378.93)**	0.359 **(9.12)**	.212+	4.18 **(106.17)**	3.50 **(88.90)**	0.53 **(13.46)**	0.94 **(23.88)**	1.38 **(35.05)**
CXK1202	SF750CX	20,000 **(1378.93)**	0.516 **(13.11)**	.368+	5.12 **(130.05)**	4.38 **(111.25)**	0.62 **(15.75)**	1.19 **(30.23)**	1.75 **(44.45)**
CXK1602	SF1000CX	20,000 **(1378.93)**	0.688 **(17.48)**	.864+	6.50 **(165.10)**	5.62 **(142.75)**	0.72 **(18.29)**	1.38 **(35.05)**	1.88† **(47.75)**

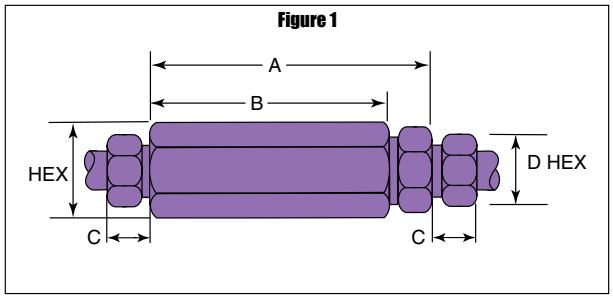
Note:
+ Check Flow - water, GPM
For flow rates using alternate fluids, consult Parker Autoclave Engineers.

*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.

Figure 1



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