

Inline Check Valves

CG Series Gas and Cryogenic Check Valves

Application

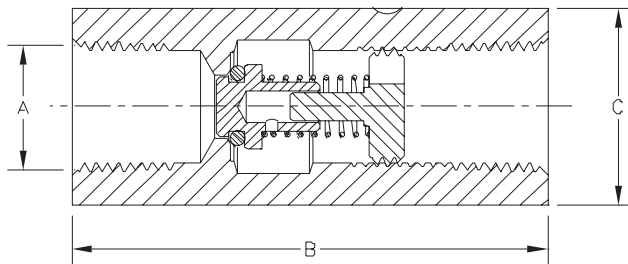
Inline check valves with metal seat option for cryogenic service or with soft seat option for leak free operation in gas service.

Features

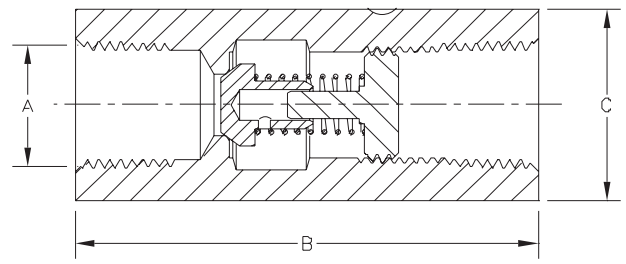
- One directional flow indicated by arrow on body
- Large Cv for high flow capability and low pressure drop
- Working temperature range:
-320° F to +165° F (-195°C to +74°C) for metal seats
-20° F to +165° F (-20°C to +74°C) for soft seats
- 1 psig opening pressure
- Cleaned for use in oxygen service per CGA G-4.1

Materials

Body (B and BL suffix) ASTM B16 Brass
 Body (SS and SSL suffix) 203 Stainless Steel
 Spring Stainless Steel
 Piston Stainless Steel
 O-Ring (soft seat option units only) Viton
 Metal Seat 303 Stainless Steel



Soft Seat Option



Metal Seat Option

Part Number	Seating Option	Inlet/Outlet Connections FNPT A	Length B		Wrenching Hex Size C		Cv (Kv)	Maximum Operating Pressure
			inches	mm	inches	mm		
Stainless Steel Check Valves								
CG250SS	Metal	1/4"	2 3/8"	60.45	13/16"	20.57	.87 (0.75)	5000 psig (345 barg)
CG375SS		3/8"	2 1/2"	63.50	1"	25.4	2.3 (1.98)	
CG500SS		1/2"	3"	76.20	1 1/8"	28.575	3.5 (3.02)	
CG750SS		3/4"	3 5/8"	92.20	1 1/2"	38.1	5.2 (4.49)	
CG250SSL	Soft	1/4"	2 3/8"	60.45	13/16"	20.57	.87 (0.75)	250 psig (17.2 barg)
CG375SSL		3/8"	2 1/2"	63.50	1"	25.4	2.3 (1.98)	
CG500SSL		1/2"	3"	76.20	1 1/8"	28.575	3.5 (3.02)	2000 psig (138 barg)
CG750SSL		3/4"	3 5/8"	92.20	1 1/2"	38.1	5.2 (4.49)	
Brass Body Check Valves								
CG250B	Metal	1/4"	2 3/8"	60.45	13/16"	20.57	.87 (0.75)	3000 psig (207 barg)
CG375B		3/8"	2 1/2"	63.50	1"	25.4	2.3 (1.98)	
CG500B		1/2"	3"	76.20	1 1/8"	28.575	3.5 (3.02)	
CG750B		3/4"	3 5/8"	92.20	1 1/2"	38.1	5.2 (4.49)	
CG250BL	Soft	1/4"	2 3/8"	60.45	13/16"	20.57	.87 (0.75)	250 psig (17.2 barg)
CG375BL		3/8"	2 1/2"	63.50	1"	25.4	2.3 (1.98)	
CG500BL		1/2"	3"	76.20	1 1/8"	28.575	3.5 (3.02)	2000 psig (138 barg)
CG750BL		3/4"	3 5/8"	92.20	1 1/2"	38.1	5.2 (4.49)	