Inline Check Valves
CG Series Gas and Cryogenic Check Valves

Application

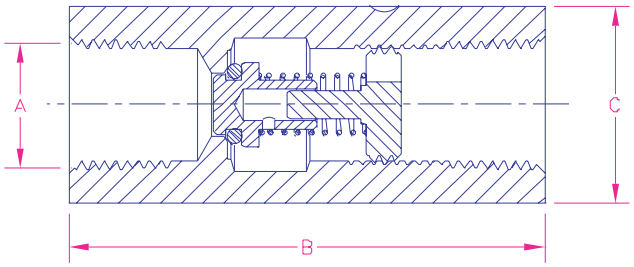
Inline check valves with metal seat option for cryogenic service or with soft seat option for leak free operation in gas service.

Features

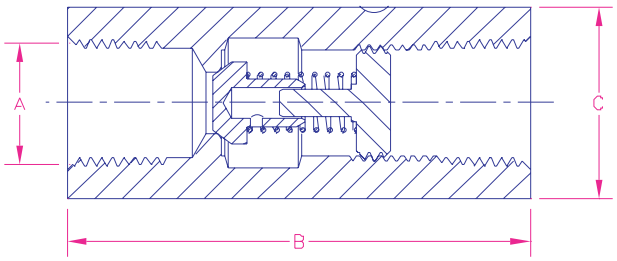
- One directional flow indicated by arrow on body.
- Large Cv for high flow capability and low pressure drop.
- Working temperature range:
  -320° F to +165° F for metal seats.
  -20° F to +165° F for soft seats.
- 1 psig opening pressure.
- Cleaned for use in oxygen service per CGA G-4.1

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

Ordering Information

Part Number	Seating Option	Inlet/Outlet Connections FNPT A	Length B	Wrenching Hex Size C	C_V	Maximum Operating Pressure
Stainless Steel Check Valves						
CG250SS	Metal	1/4"	2 3/8"	13/16"	.87	2000 PSIG
CG375SS	Metal	3/8"	2 1/2"	1"	2.3	2000 PSIG
CG500SS	Metal	1/2"	3"	1 1/8"	3.5	2000 PSIG
CG750SS	Metal	3/4"	3 5/8"	1 1/2"	5.2	2000 PSIG
CG250SSL	Soft	1/4"	2 3/8"	13/16"	.87	250 PSIG
CG375SSL	Soft	3/8"	2 1/2"	1"	2.3	250 PSIG
CG500SSL	Soft	1/2"	3"	1 1/8"	3.5	2000 PSIG
CG750SSL	Soft	3/4"	3 5/8"	1 1/2"	5.2	2000 PSIG
Brass Body Check Valves						
CG250B	Metal	1/4"	2 3/8"	13/16"	.87	2000 PSIG
CG375B	Metal	3/8"	2 1/2"	1"	2.3	2000 PSIG
CG500B	Metal	1/2"	3"	1 1/8"	3.5	2000 PSIG
CG750B	Metal	3/4"	3 5/8"	1 1/2"	5.2	2000 PSIG
CG250BL	Soft	1/4"	2 3/8"	13/16"	.87	250 PSIG
CG375BL	Soft	3/8"	2 1/2"	1"	2.3	250 PSIG
CG500BL	Soft	1/2"	3"	1 1/8"	3.5	2000 PSIG
CG750BL	Soft	3/4"	3 5/8"	1 1/2"	5.2	2000 PSIG