

ONE PIECE CHECK VALVE

1/4" & 1/2" NPT

0 - 3000 Psig

Description

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Features

- Compact One Piece Body Construction
- Working Pressures to 3000 Psig (206 bar)
- Full Back Pressure Rating
- Fully Retained O'Ring Seal
- Cracking Pressures from .3 to 25 Psig (0.02 - 1.7 bar)
- 100% Factory tested for crack and reseal performance

Technical Data

- Nominal Crack Pressures: .3, 1, 10, & 25 Psig (0.02, 0.07, 0.7 & 1.7 bar)
- Maximum Pressure: 3000 Psig @ 70° F (206 bar @ 21°C)
- Temperature Rating:
 Viton™: -10° F to 375° F (-23° C to 190° C)
 Buna-N: -40° F to 250° F (-40° C to 121° C)

Materials of Construction

Component	Valve Body Material	
	Brass	Stainless Steel
Body, Poppet, Seat Insert, Locking Screw ¹	Brass, ASTM B16	316 SS, ASTM A479 ²
Spring	302 SS, ASTM A313	
O'Ring Seal ³	Buna-N	Viton™

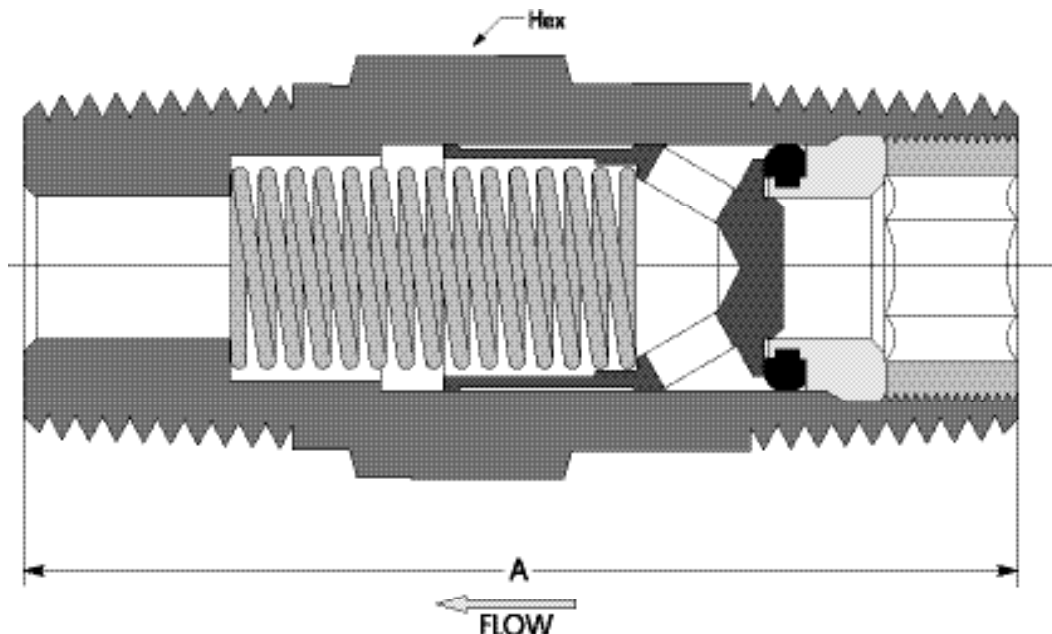
¹ 1/4" Brass valves have 316SS locking screw

² PTFE dry lubricant applied to threads

³ Lubricated with Krytox™ GPL-202



SERIES OPC ONE PIECE CHECK VALVE



Dimensional/Flow Data

Model Code	Port Configuration		A(inches)	Hex	Cv
	Inlet	Outlet			
OPC-4P	1/4" Male NPT	1/4" Male NPT	1.62	9/16"	0.35
OPC-4MF	1/4" Male NPT	1/4" Female NPT	1.75	3/4"	
OPC-4FF	1/4" Female NPT	1/4" Female NPT	2.29	7/8"	
OPC-8P	1/2" Male NPT	1/2" Male NPT	2.28	1 - 1/16"	1.20
OPC-8MF	1/2" Male NPT	1/2" Female NPT	3.71		
OPC-8FF	1/2" Female NPT	1/2" Female NPT	2.83		

Flow tested in accordance with ISA S75.21 with air. Restrictions in the inlet or outlet piping may reduce flow.

Ordering Information

OPC - 4P SS - V - 1

SERIES _____
OPC - One Piece Check Valve

PORT CONFIGURATION _____
4P - 1/4" Male x 1/4" Male
4MF - 1/4" Male x 1/4" Female
4FF - 1/4" Female x 1/4" Female
8P - 1/2" Male x 1/2" Male
8MF - 1/4" Male x 1/4" Female
8FF - 1/4" Female x 1/4" Female
NPT threads per ANSI/ASME B1.20.1

MATERIAL CODE _____
B - Brass
SS - 316SS

Viton, Krytox - TMDuPont

CRACK PRESSURES
.3 - (.1 - .4 Psig) (0.02 bar)
1 - (.5 - 1Psig) (0.07 bar)
10 - (8 - 12 Psig) (0.7 bar)
25 - (22 - 27 Psig) (1.7 bar)

SEAL MATERIAL
V - VitonTM, -10°F to 375°F (-23°C to 190°C)
B - Buna-N, -40°F to 250°F (-40°C to 121°C)
N - Neoprene, -40°F to 300°F (-40°C to 148°C)
EP - Ethylene Propylene, -65°F to 300°F (-54°C to 148°C)
FS - Fluorosilicone, -80°F to 350°F (-62°C to 176°C)
S - Silicone, -70°F to 450°F (-56°C to 232°C)
T - TFE, -50°F to 350°F (-46°C to 177°C)
TFE Seal may require back pressure to seal leak-tite

OPTIONS
Oxygen cleaning, alternative seals and other thread configurations, consult factory

PROPER COMPONENT SELECTION - When specifying a component, the total system design must be considered to ensure safe and trouble-free performance. Intended component function, materials compatibility, pressure ratings, installation, environment and maintenance are the responsibility of the system designer.



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