

POPPOPS SERIES

Description

Compact one piece body, fully retained O-ring seal, poppet type check valve. Available in 1/4" and 1/2" NPT in brass or 316 stainless steel. Suitable for working pressures to 3000 Psig. A wide selection of seal materials and crack pressures make the Series OPC a quality and cost effective solution. All valves are 100% factory tested and available cleaned and packaged for oxygen service.

Features and Benefits

- 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, leakage 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:
-80°F to 450°F (-62°C to 232°C)
(based on seal selection, see ordering information)

Materials of Construction

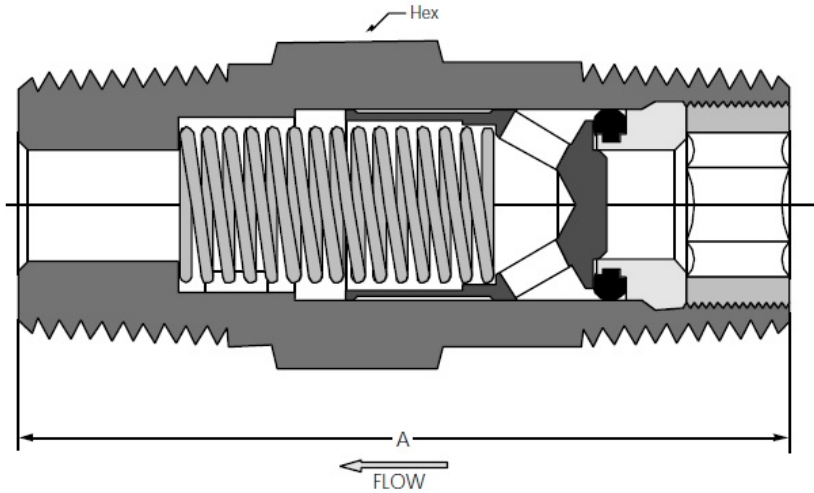
Component	Valve Body Material	
	Brass	Stainless Steel
Body, Poppet, Seat Insert, Locking Screw ¹	Brass, ASTM B16	316 SS, ASTM A479
Spring	302 SS, ASTM A313	
O-Ring Seal ²	Buna-N	Viton™

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

2 Lubricated with Krytox™



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	2.41		1.20
OPC-8P	1/2" Male NPT	1/2" Male NPT	2.28	7/8"	
OPC-8MF	1/2" Male NPT	1/2" Female NPT	2.83	1 - 1/16"	

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 - 1/2" Male x 1/2" Female

NPT Threads per ANSI/ASME B1.20.1

MATERIAL CODE

B - Brass

SS - 316 SS

CRACK PRESSURE

.3 - (.1 - .4 Psig) (0.02 bar)

1 - (.5 - 1 Psig) (0.07 bar)

10 - (8 - 12 Psig) (0.7 bar)

25 - (22 - 27 Psig) (1.7 bar)

SEAL MATERIAL

V - Viton™, -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 - PTFE, -50°F to 350°F (-46°C to 176°C)

PTFE Seal may require back pressure to seal leak tight

OPTIONS

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

Note: Viton™ and Krytox™ are trademarks of DuPont.

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.



Valves & **BI-Lok** Fittings

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