

# ONE PIECE CHECK VALVE 1/4" & 1/2" NPT 0 - 3000 Psig



### **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 Leakage



- 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)



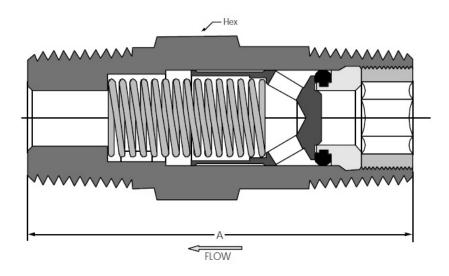
### **Materials of Construction**

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

- 1 1/4" Brass valves have 316 SS locking screw
- 2 Lubricated with Krytox™



## SERIES OPC ONE PIECE CHECK VALVE



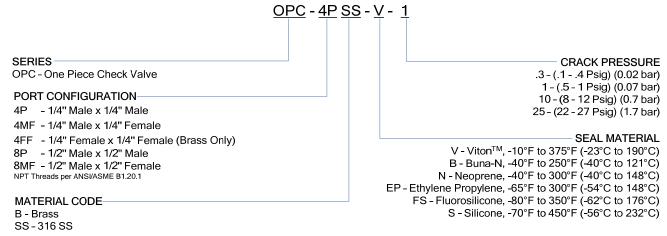
### **Dimensional/Flow Data**

Model Code -	Port Configuration		A (inches)	Hex	Cv
	Inlet	Outlet	A (inches)	пех	CV
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		
OPC-8P	1/2" Male NPT	1/2" Male NPT	2.28	7/8"	1.20
OPC-8MF	1/2" Male NPT	1/2" Female NPT	2.83	1 – 1/16"	

<sup>\*</sup>Only available in Brass

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

### **Ordering Information**



#### **OPTIONS**

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

Note: Viton<sup>™</sup> and Krytox<sup>™</sup> 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.



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