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

<table>
<thead>
<tr>
<th>Component</th>
<th>Valve Body Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass, Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>Brass, ASTM B16</td>
<td>316 SS, ASTM A479</td>
</tr>
<tr>
<td>Spring</td>
<td>302 SS, ASTM A313</td>
</tr>
<tr>
<td>O-Ring Seal™</td>
<td>Buna-N</td>
</tr>
<tr>
<td></td>
<td>Viton™</td>
</tr>
</tbody>
</table>

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

SA.SL.OPC002.B.2082
SERIES OPC
ONE PIECE CHECK VALVE

Dimensional/Flow Data

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Port Configuration</th>
<th>A (inches)</th>
<th>Hex</th>
<th>Cv</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPC-4P</td>
<td>1/4&quot; Male NPT</td>
<td>1.62</td>
<td>9/16&quot;</td>
<td>0.35</td>
</tr>
<tr>
<td>OPC-4MF</td>
<td>1/4&quot; Male NPT</td>
<td>1.75</td>
<td>3/4&quot;</td>
<td>0.35</td>
</tr>
<tr>
<td>OPC-4FF</td>
<td>1/4&quot; Female NPT</td>
<td>2.41</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPC-8P</td>
<td>1/2&quot; Male NPT</td>
<td>2.28</td>
<td>7/8&quot;</td>
<td>1.20</td>
</tr>
<tr>
<td>OPC-8MF</td>
<td>1/2&quot; Female NPT</td>
<td>2.83</td>
<td>1 – 1/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

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

Ordering Information

**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

**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)

**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.

www.generant.com
1865 Route 23 South PO Box 768 Butler, New Jersey 07405 973.838.6500 Fax 973.838.4888

SA.SL.OPC002.B.2082