Description
Compact one piece body, adjustable check/relief valves are available in Brass or 316 Stainless Steel. Available in 1/4" and 1/2" NPT with a wide selection of seal materials. Series ACV valves can be ordered factory "preset and locked" in crack pressures up to 600 Psig. All valves are 100% factory tested and available cleaned & packaged for Oxygen service.

Features
- Compact One Piece Body Construction
- Working Pressures to 3000 Psig (206 bar)
- Adjustable Cracking Pressures from 3 to 600 Psig (0.2 bar to 41.3 bar)
- Fully retained O-Ring Seal
- Full Back Pressure Rating
- Factory Presetting Available
- 100% Factory Tested for Leakage, Crack and Reseal Performance

Technical Data
Cracking Pressure Ranges:
- 3 to 20 Psig (0.2 to 1.4 bar)
- 20 to 65 Psig (1.4 to 4.5 bar)
- 65 to 175 Psig (4.5 to 12.1 bar)
- 175 to 350 Psig (12.1 to 24.1 bar)
- 350 to 600 Psig (24.1 to 41.3 bar)

Maximum Pressure: 3000 Psig @ 100°F (206 bar @ 40°C)

Temperature Rating: -80°F to 450°F (-65°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>Body, Poppet, Seat Locking Screw, Adjustment Screw, Pressure Locking Screw</td>
<td>Brass, ASTM B16</td>
</tr>
<tr>
<td>Spring</td>
<td>302 SS, ASTM A313</td>
</tr>
<tr>
<td>O-Ring Seal</td>
<td>Buna-N</td>
</tr>
</tbody>
</table>

1 Lubricated with Krytox™
**Dimensions**

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Connection</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Inlet &amp; Outlet</td>
<td>A</td>
</tr>
<tr>
<td>ACV-4P</td>
<td>1/4&quot; Male NPT</td>
<td>1.62&quot;</td>
</tr>
<tr>
<td>ACV-4FF</td>
<td>1/4&quot; Female NPT</td>
<td>2.98&quot;</td>
</tr>
<tr>
<td>ACV-8P</td>
<td>1/2&quot; Male NPT</td>
<td>2.56&quot;</td>
</tr>
</tbody>
</table>

Flow tested in accordance with ISA S75.21 with air. Restrictions in the inlet or outlet piping may reduce flow. NPT Threads per ASME B1.20.1.

**Ordering Information**

**SERIES**: ACV - Adjustable Check Valve

**PORT CONFIGURATION**
- 4P - 1/4" Male NPT x 1/4" Male NPT
- 4FF - 1/4" Female NPT x 1/4" Female NPT
- 8P - 1/2" Male NPT x 1/2" Male NPT

**MATERIAL CODE**
- B - Brass
- SS - 316 SS

**CRACK PRESSURE**
(standard pressure ranges)
- 3 to 20 Psig (0.2 bar to 1.4 bar)
- 20 to 65 Psig (1.4 bar to 4.5 bar)
- 65 to 175 Psig (4.5 bar to 12.1 bar)
- 175 to 350 Psig (12.1 bar to 24.1 bar)
- 350 to 600 Psig (24.1 bar to 41.3 bar)

May be ordered factory preset to your specifications
Specify Cracking Pressure, Example ACV-4PB-V-125

**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)

* - EP has a max set pressure of 400 Psig (27.6 bar)

Note: Viton™ and Krytox™ are trademarks of DuPont

**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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