**Technical data**

**R05**

**Fluid:**
Compressed air, neutral gases

**NOTE:** Contact technical support for use with other media.

**Maximum pressure:**
300 psig (20 bar)

**Operating temperature:**
With Acetal bonnet
-13° to 150°F (-25°C to 66°C)
With metal bonnet
-13°F to 175°F (-25°C to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C). Contact technical support for use below -13°F (-25°C).

**NOTE:** For applications to -40°F (-40°C) contact technical support.

**B05**

**Fluid:**
Compressed air

**Maxmimum pressure:**
300 psig (20 bar)

**Operating temperature:**
With Acetal bonnet
-13° to 150°F (-25°C to 66°C)
With metal bonnet
-13°F to 175°F (-25°C to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C). Contact technical support for use below -13°F (-25°C).

**Materials**

**R05**
Body: 316 stainless steel
Bonnet: 316 stainless steel with T-handle or acetal with stainless steel adjusting screw
Valve: 316 stainless steel with fluorocarbon elastomer
Valve seat: acetal
Springs: 302 stainless steel
Elastomers: fluorocarbon

**B05**
Body and bowl: 316 stainless steel
Bonnet: 316 stainless steel with T-handle or acetal with stainless steel adjusting screw
Valve: 316 stainless steel with fluorocarbon elastomer
Valve seat: acetal
Springs: 302 stainless steel
Drain: stainless steel or acetal
Element: sintered polypropylene
Elastomers: fluorocarbon

**Particle removal:**
5 µm or 40 µm filter element

**Technical data**

**R05 Ordering Information**

Standard models listed are relieving type with 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range* and PTF threads. A gauge is not included.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Bonnet type</th>
<th>Flow** scfm (dm3/s)</th>
<th>Weight lb (kg)</th>
<th>Service kit†</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>R05-200-RNL A</td>
<td>Acetal</td>
<td>15 (7)</td>
<td>0.32 (0.15)</td>
<td>3407-71</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>R05-232-RNL A</td>
<td>Stainless steel w/ T-handle</td>
<td>15 (7)</td>
<td>0.58 (0.26)</td>
<td>3407-71</td>
</tr>
</tbody>
</table>

**B05 Ordering Information**

Standard models listed include a relieving diaphragm, manual drain, 5 µm element, 5 to 125 psig (0.3 to 8.5 bar) outlet pressure adjustment range* and PTF threads. A gauge is not included.

<table>
<thead>
<tr>
<th>Port Size</th>
<th>Model</th>
<th>Bonnet type</th>
<th>Drain</th>
<th>Flow**</th>
<th>Weight</th>
<th>Service kit†</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot; PTF</td>
<td>B05-233-M1LA</td>
<td>Acetal</td>
<td>manual (Acetal)</td>
<td>15 (7)</td>
<td>0.85 (0.38)</td>
<td>3820-08</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>B05-238-M1LA</td>
<td>Stainless steel w/ T-handle</td>
<td>manual (SS)</td>
<td>15 (7)</td>
<td>1.20 (0.54)</td>
<td>3820-08</td>
</tr>
<tr>
<td>1/4&quot; PTF</td>
<td>B05-234-A1LA</td>
<td>Acetal</td>
<td>automatic (SS)</td>
<td>15 (7)</td>
<td>0.85 (0.38)</td>
<td>3820-08</td>
</tr>
</tbody>
</table>

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

** Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

† Service kit includes diaphragm, seals, o-rings, and valve

**Designed for use in corrosive environments**

**Metallic parts meet NACE Standard MR-01-75**

*National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulphide stress cracking resistant materials used in well-head and other corrosive environments.
### Additional Options††

<table>
<thead>
<tr>
<th>Option</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bonnet</td>
<td></td>
</tr>
<tr>
<td>Standard knob (Acetal)</td>
<td>00</td>
</tr>
<tr>
<td>T-handle (Stainless steel)</td>
<td>32</td>
</tr>
<tr>
<td>Diaphragm &amp; Bonnet</td>
<td></td>
</tr>
<tr>
<td>Relieving, acetal knob</td>
<td>33</td>
</tr>
<tr>
<td>Relieving, stainless steel T-handle</td>
<td>38 ¶</td>
</tr>
<tr>
<td>Drain</td>
<td></td>
</tr>
<tr>
<td>Automatic (stainless steel)</td>
<td>A</td>
</tr>
<tr>
<td>Manual (Acetal)</td>
<td>M</td>
</tr>
</tbody>
</table>

### R05 - 2★ ★ - ★ N ★ A

<table>
<thead>
<tr>
<th>Outlet Pressure Adjustment Ranges*</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 to 50 psig (0.3 to 3.5 bar)</td>
<td>E</td>
</tr>
<tr>
<td>5 to 125 psig (0.3 to 8.5 bar)</td>
<td>L</td>
</tr>
<tr>
<td>Diaphragm</td>
<td></td>
</tr>
<tr>
<td>Relieving</td>
<td>R</td>
</tr>
<tr>
<td>Non relieving</td>
<td>N</td>
</tr>
</tbody>
</table>

### B05 - 2★ ★ - ★ ★ ★

<table>
<thead>
<tr>
<th>Threads</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTF</td>
<td>A</td>
</tr>
</tbody>
</table>

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<td>L</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Element</th>
<th>Substitute</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 µm</td>
<td>1</td>
</tr>
<tr>
<td>40 µm</td>
<td>2</td>
</tr>
</tbody>
</table>

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* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

†† These options may require minimum order quantities and may have longer lead times.

¶ Option 38 has a stainless steel manual drain as standard.
Stainless Steel Products

R05, and B05

Accessories

<table>
<thead>
<tr>
<th>ISO Symbols</th>
<th>Panel nut (Acetal)</th>
<th>Gauge (Stainless steel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GrSym,F/R,Man,Rel</td>
<td>2962-89</td>
<td>0 ... 140 psig</td>
</tr>
</tbody>
</table>

Dimensions in inches (mm)

Manual drain

*Minimum distance to remove bowl