Miniature ported pressure regulator (stainless steel)

> Port size: 1/4 PTF
> Metallic parts meet NACE*
> Designed for use in corrosive environments
> Adjusting knob has snap-action lock

> Applications include marine environment, oil and gas production, chemical and industrial compressed air systems

* 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.

Technical features

Medium:
Compressed air or neutral gases
Other media on request

Operating pressure:
20 bar max (290 psi)

Pressure range:
0.3 ... 8.5 bar (4 ... 123 psi),
0.3 ... 3.5 bar (4 ... 50 psi)

Diaphragm:
With or without relieving

Typical flow:
see below

Gauge ports:
1/8 PTF

Ambient/Media temperature:
Acetal bonnet
-25 ... +66°C (-13 ... 150°F)
T-handle
-25 ... +80°C (-13 ... 176 °F)
- 40°C (-40°F) version on request
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35 °F).

Materials:
Body and valve: 1.4104 (316) stainless steel
Bonnet: 1.4104 (316) stainless steel with T-handle or Acetal with stainless steel adjusting screw
Valve seat: Acetal
Springs: 1.4319 (302) Stainless steel
Elastomers: FPM

Technical data,
Standard models

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Outlet pressure range (bar)</th>
<th>Flow *1) (dm³/s)</th>
<th>Diaphragm</th>
<th>Bonnet type</th>
<th>Weight (kg)</th>
<th>Model</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1/4 PTF</td>
<td>0.3 ... 8.5</td>
<td>7</td>
<td>Relieving</td>
<td>Knob (Acetal)</td>
<td>0.15</td>
<td>R05-200-RNLA</td>
</tr>
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<td></td>
<td>1/4 PTF</td>
<td>0.3 ... 8.5</td>
<td>7</td>
<td>Relieving</td>
<td>T-handle (stainless steel)</td>
<td>0.26</td>
<td>R05-232-RNLA</td>
</tr>
</tbody>
</table>

*1) Typical flow with 10 bar inlet pressure, 6,3 bar set pressure and 1 bar droop form set.

Option selector

Bonnet Substitute
Standard knob (Acetal) 00
T-handle (Stainless steel) 32

Outlet pressure adjustment ranges *
0.3 ... 3.5 bar E
0.3 ... 8.5 bar L

Diaphragm Substitute
Relieving R
Non relieving N

* 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.
R05
Miniature ported pressure regulator (stainless steel)

Air flow characteristics
R05 – Port size: 1/4 PTF, inlet pressure: 12 bar, pressure range: 0,3 ... 8,5 bar

![Flow vs Pressure Graph]

Regulator with Acetal bonnet

Regulator with stainless steel T-handle

Accessories

Panel nut
Gauge, 0 ... 10 bar, Ø 40 mm, Port size: 1/8 PTF

2962-89 (Acetal) 18-015-844 *1)

*1) Stainless steel items not strictly to NACE standard MR-01-75.

Spares kit

Service kit *1)

3407-71 (Relieving)
3407-72 (Non-relieving)

Warning
These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under «Technical features/data».

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering, Norgren GmbH.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.