**Precision pressure regulator**

- **Port size:** G1/4
- **Precision instruments with integral pilot to ensure very close pressure control in a compact form**
- **Panel mounting facility**

Note: Not recommended for dead-end applications

### Technical features

**Medium:** Compressed air  
Note: 5 μm prefiltration and oil-free are required!  

**Maximum inlet pressure:**  
8 bar (116 psi) (low)  
10 bar (145 psi) (standard)  
14 bar (203 psi) (high)  

**Flow:** See diagrams on page 2

#### Technical data, standard models

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Port size</th>
<th>Pressure range (bar)</th>
<th>Accuracy (bar) *1)</th>
<th>Relieving</th>
<th>Gauge port</th>
<th>Tamper proof adjusting screw</th>
<th>Weight (kg)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/4</td>
<td>0.02 ... 0.5 (low)</td>
<td>0.01</td>
<td>Standard</td>
<td>—</td>
<td>—</td>
<td></td>
<td>0.64</td>
<td>11-818-999</td>
</tr>
<tr>
<td>G1/4</td>
<td>0.02 ... 0.5 (low)</td>
<td>0.01</td>
<td>Standard</td>
<td>—</td>
<td>Standard</td>
<td></td>
<td>0.64</td>
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<tr>
<td>G1/4</td>
<td>0.07 ... 4 (standard)</td>
<td>0.03</td>
<td>Standard</td>
<td>—</td>
<td>—</td>
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<td>0.64</td>
<td>11-818-100</td>
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<tr>
<td>G1/4</td>
<td>0.07 ... 4 (standard)</td>
<td>0.03</td>
<td>Standard</td>
<td>—</td>
<td>Standard</td>
<td></td>
<td>0.64</td>
<td>11-818-101</td>
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<tr>
<td>G1/4</td>
<td>0.4 ... 10 (high)</td>
<td>0.05</td>
<td>Standard</td>
<td>—</td>
<td>—</td>
<td></td>
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<td>11-818-110</td>
</tr>
<tr>
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<td>0.02 ... 0.5 (low)</td>
<td>0.01</td>
<td>Standard</td>
<td>R1/4</td>
<td>—</td>
<td></td>
<td>0.64</td>
<td>11-818-987</td>
</tr>
<tr>
<td>G1/4</td>
<td>0.07 ... 4 (standard)</td>
<td>0.03</td>
<td>Standard</td>
<td>R1/4</td>
<td>—</td>
<td></td>
<td>0.64</td>
<td>11-818-993</td>
</tr>
<tr>
<td>G1/4</td>
<td>0.4 ... 10 (high)</td>
<td>0.05</td>
<td>Standard</td>
<td>R1/4</td>
<td>—</td>
<td></td>
<td>0.64</td>
<td>11-818-991</td>
</tr>
</tbody>
</table>

*1) Typical mid-range variance from set pressure with 7 bar inlet at 2 dm³/s  

Note: 11-818 is not a constant bleed device, when being used under flow conditions no air is consumed.  
Air bleed is only effective under zero flow conditions as in a dead end application.

### Materials:

- Body & bonnet: Zinc alloy  
- Adjusting knob: Acetal resin  
- Elastomers: NBR

### Specifications:

- **Relieving:** Standard  
- **Pressure range:** 0.07 ... 4 bar (1 ... 58 psi) (standard)  
- **Gauge port:** See table below  
- **Ambient/Media temperature:**  
  - Standard: 0 ... +70°C (+32° ... +158°F)  
  - Version with gauge: 0 ... +65°C (+32° ... +149°F)  
- **Flow:** See diagrams on page 2  
- **Relieving:** Standard  
- **Pressure range:** 0.07 ... 4 bar (1 ... 58 psi) (standard)  
- **Port size:** G1/4  
- **Gauge port:** See table below  

### Notes:

- Maximum inlet pressure: 8 bar (116 psi) (low)  
10 bar (145 psi) (standard)  
14 bar (203 psi) (high)  
- Flow: See diagrams on page 2  
- Ambient/Media temperature: 0 ... +70°C (+32° ... +158°F)  
- Version with gauge: 0 ... +65°C (+32° ... +149°F)  
- Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).  

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Flow characteristics

Standard pressure version:
Inlet pressure 7 bar (100 psi); pressure range 0,1 ... 4,1 bar (1 ... 60 psi)

Regulating characteristics

High pressure version:
Inlet pressure 14 bar (200 psi); pressure range 0,2 ... 10,35 bar (3 ... 150 psi)

Accessories

Gauge
Ø 40 mm, Port size R1/8

Concentric reducing adaptors for gauge ports

<table>
<thead>
<tr>
<th>Pressure Range</th>
<th>Code</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ... 1,6 bar</td>
<td>18-013-991</td>
<td>R1/4-G1/8 150232818</td>
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<tr>
<td>0 ... 4 bar</td>
<td>18-013-990</td>
<td>R3/8-G1/8 150233818</td>
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<tr>
<td>0 ... 10 bar</td>
<td>18-013-989</td>
<td>R1/2-G1/8 150234818</td>
</tr>
</tbody>
</table>

Service kits

2787-96 (low pressure)
2787-98 (standard pressure)
2787-97 (high pressure)
Dimensions

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 Inc.

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.