<table>
<thead>
<tr>
<th>Description</th>
<th>Pressure range</th>
<th>Connection thread</th>
<th>Device</th>
<th>Page</th>
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<tbody>
<tr>
<td>pressure regulator for clean room environment</td>
<td>0.05 ... 2 / 4 bar</td>
<td>M5, G1/8</td>
<td>RE1</td>
<td>15.02</td>
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<td>pressure regulator, many variations</td>
<td>0.2 ... 1.8 / 9 bar</td>
<td>G1/4</td>
<td>R364-S</td>
<td>15.03</td>
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<tr>
<td>pressure regulator, &quot;Midi&quot; series</td>
<td>0.2 ... 4.0 / 17 bar</td>
<td>G1/2</td>
<td>R10-S</td>
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<tr>
<td>pressure regulator for many gases</td>
<td>0.1 ... 1.5 / 50 bar</td>
<td>G1/4 - G2</td>
<td>R3000</td>
<td>15.04</td>
</tr>
<tr>
<td>pressure regulator for liquids, FDA-approved</td>
<td>0.2 ... 3 / 16 bar</td>
<td>G1/4 - G1</td>
<td>REA</td>
<td>15.06</td>
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<tr>
<td>volume booster</td>
<td>1 ... 15 / 50 bar</td>
<td>G1/4 - G2</td>
<td>R3000-J</td>
<td>15.07</td>
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<td>high pressure regulator up to 380 bar</td>
<td>0 ... 8 / 200 bar</td>
<td>1/4&quot;NPT</td>
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<tr>
<td>many variations, for many gases</td>
<td>1 ... 8 / 200 bar</td>
<td>DIN 477 / G1/4 - G1 1/4</td>
<td>RH3000</td>
<td>15.09</td>
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<td>low pressure regulator</td>
<td>5 ... 45 / 6000 mbar</td>
<td>G1/2 - G2</td>
<td>R3100</td>
<td>15.10</td>
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<tr>
<td>back pressure regulator for low pressure</td>
<td>5 ... 45 / 6000 mbar</td>
<td>G1/2 - G2</td>
<td>D3100</td>
<td>15.11</td>
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<tr>
<td>back pressure regulator, for many variations</td>
<td>0.1 ... 1.5 / 50 bar</td>
<td>G1/4 - G2</td>
<td>D3000</td>
<td>15.12</td>
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<td>pressure regulator, suitable for pharmacy</td>
<td>0.25 ... 0.4 / 52 bar</td>
<td>G1/4 - G2 1/2</td>
<td>R70</td>
<td>15.14</td>
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<tr>
<td>low pressure regulator, suitable for pharmacy</td>
<td>4 ... 7 / 960 mbar</td>
<td>G1/4 - G2 1/2</td>
<td>R74</td>
<td>15.16</td>
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<tr>
<td>filter regulator for many gases</td>
<td>0.2 ... 3 / 15 bar</td>
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<td>B3000</td>
<td>15.18</td>
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<tr>
<td>filter regulator, &quot;Mini&quot; and &quot;Midi&quot; series</td>
<td>0.2 ... 1.8 / 17 bar</td>
<td>G1/4, G1/2</td>
<td>B548-S, B11-S</td>
<td>15.19</td>
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<tr>
<td>lubricator for compressed air, -40°C/-40°F up to +130°C/266°F max.</td>
<td>50 bar</td>
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<td>L3000</td>
<td>15.20</td>
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<td>compressed air filter, -40°C/-40°F up to +130°C/266°F max.</td>
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<td>G1/2 - G2</td>
<td>F3000</td>
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<td>FRL service unit, 2- and 3-part</td>
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<td>G1/2 - G2</td>
<td>C3000</td>
<td>15.22</td>
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<td>FRL service unit, 2- and 3-part</td>
<td>0.3 ... 9 bar</td>
<td>G1/2</td>
<td>C10-S</td>
<td>15.23</td>
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<td>compressed air filter</td>
<td>max. 21 bar</td>
<td>G1/4, G1/2</td>
<td>F504-S, F10-S</td>
<td>15.23</td>
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<tr>
<td>lubricator for compressed air</td>
<td>max. 21 bar</td>
<td>G1/2</td>
<td>L10-S</td>
<td>15.23</td>
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<tr>
<td>pinch valve</td>
<td>max. 4 bar</td>
<td>G1/4 - G2</td>
<td>QE</td>
<td>15.24</td>
</tr>
<tr>
<td>mounting flanges DIN and ANSI</td>
<td>max. PN100</td>
<td>G1/2 - G3</td>
<td>F</td>
<td>15.25</td>
</tr>
<tr>
<td>flanges and fittings</td>
<td>max. PN100</td>
<td>G1/2 - G3</td>
<td>VS</td>
<td>15.26</td>
</tr>
</tbody>
</table>
Precision Pressure Regulator Made of Stainless Steel, for Pure Gases  RE1

Description
Diaphragm pressure regulator made of stainless steel suitable for pure gases and panel mounting.

Media
compressed air or gases

Supply pressure
max. 10 bar

Accuracy
setting accuracy: < 0.3% FS

Adjustment
by plastic knob with snap-lock

Gauge port
M5 or G¼ on both sides of the body, depending on connection thread, screw plugs supplied

Clean room condition
Cleaned, assembled, inspected and sealed in a class 10,000 environment. All parts without oil use. HFC1416 ultrasonic cleaning of all fluid-contact parts.

Temperature range
0 °C to 60 °C / 32 °F to 140 °F

Material
Body: stainless steel 316, material no. 1.4436
Spring cage: PPS plastic
Valve seat: PTFE

Dimensions

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>K_v</th>
<th>Flow rate</th>
<th>Connection thread</th>
<th>Pressure range</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>(m³/h)</td>
<td>m³/h*1</td>
<td>M5</td>
<td>0.05...2</td>
<td>RE1-M5B</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>(l/min*1)</td>
<td></td>
<td>G1/8</td>
<td>0.10...4</td>
<td>RE1-M5C</td>
</tr>
</tbody>
</table>

Precision pressure Regulator
supply pressure max. 10 bar, relieving, with constant bleed

RE1

30 75 14 0.20 3.6 60 M5 RE1-M5B
40 75 15 0.25 6 100 G1/8 RE1-01B

Accessories, enclosed

mounting bracket
mounting nut at the device

BW30-04S

RE1-M5C, incl. mounting nut

RE1-M5C, incl. Befest.-Mutter

Order example:

RE1-M5B

Gauges: see chapter for measuring devices
## Stainless Steel Pressure Regulator

### Description
Diaphragm-operated pressure regulator in small design

### Media
Compressed air, gases or liquids

### Supply Pressure
Max. 21 bar

### Adjustment
By plastic knob with snap-lock at R364 and R10, by hexagonal spindle at R354

### Gauge Port
G 1/4 on both sides of the body, screw plugs supplied

### Mounting Position
Any

### Temperature Range
- 0 °C to 65 °C / 32 °F to 149 °F, for appropriately conditioned compressed air down to -30 °C / -22 °F
- 0 °C to 80 °C / 32 °F to 176 °F for spring cage made of fiberglass or stainless steel

### Material
- Body: stainless steel 316
- Spring cage: glass fibre-reinforced plastic at R364 and R10, stainless steel 316 at R354, optionally fiberglass at R364
- Elastomer: FKM
- Inner valve: stainless steel 316

### Dimensions
<table>
<thead>
<tr>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>Description</th>
<th>K-value (m³/h)</th>
<th>Flow Rate (m³/h)</th>
<th>Connection Thread</th>
<th>Pressure Range (bar)</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>75</td>
<td>13</td>
<td>Relieving for compressed air</td>
<td>0.4</td>
<td>27</td>
<td>G 1/4</td>
<td>0.2…1.8</td>
<td>R364-02AS</td>
</tr>
<tr>
<td>40</td>
<td>75</td>
<td>13</td>
<td>Non-relieving for liquids</td>
<td>0.4</td>
<td>0.4</td>
<td>6</td>
<td>G 1/4</td>
<td>R364-02BSK</td>
</tr>
<tr>
<td>60</td>
<td>124</td>
<td>35</td>
<td>Relieving for compressed air</td>
<td>2.6</td>
<td>180</td>
<td>3000</td>
<td>G 1/2</td>
<td>R10-04BS</td>
</tr>
<tr>
<td>60</td>
<td>124</td>
<td>35</td>
<td>Non-relieving for liquids</td>
<td>2.6</td>
<td>2.6</td>
<td>43</td>
<td>G 1/2</td>
<td>R10-04BSK</td>
</tr>
</tbody>
</table>

### Special Options
- NPT connection thread: R..-0...-N
- Free of oil and grease: specially cleaned: R3.4-0...-L
- Stainless steel spring cage: incl. stainless steel adjusting screw, total height 60 mm: R364-02...X57

### Accessories
- Pressure gauge: Ø 40 mm, 0…-2 bar, G 1/4 for R364: MS4002..-X2
- Pressure gauge: Ø 50 mm, 0…-2 bar, G 1/4 for R10: MS5002..-X2
- Mounting bracket: for R364: BW30-04S
- Mounting bracket: for R10: BW45-03S
- Mounting nut: made of stainless steel: M30x1.5S for R364
- Mounting nut: made of plastic: M30x1.5K for R364
- Mounting bracket: for R364: BW30-04S
- Mounting bracket: for R10: BW45-03S

### Gauges
See chapter for measuring devices

---

**Order example:**
R364-02AS
### Pressure Regulator Made of Stainless Steel Throughout, up to 50 bar

**R3000**

#### Description
Pressure regulator made of stainless steel throughout.

#### Media
see chart, max. 50 bar

#### Supply pressure
by adjusting screw at R3000-01 to -A6, with locknut

#### Relieving function
by T-handle at R3000-06 to -16, with locknut

#### Material

- **Body/Inner valve**: stainless steel 316L, material no. 1.4404
- **Diaphragm**: NBR/Buna-N with PTFE coating, optionally stainless steel
- **O-rings**: FKM, optionally EPDM

#### Pressure Regulator Made of Stainless Steel Throughout, up to 50 bar

- **Gases or liquids**: compressed air, gases or liquids
- **Supply pressure**: see chart, max. 50 bar
- **Adjustment**: by adjusting screw at R3000-01 to -A6, with locknut
- **Relieving function**: by T-handle at R3000-06 to -16, with locknut
- **Gauge port**: any
- **Temperature range**: 0 °C to -80 °C / 32 °C to 176 °F for FKM or EPDM
- **Pressure Range**: 0 °C to 130 °C / 32 °C to 266 °F for high temperature version
- **Material**: Body/Inner valve: stainless steel 316L, material no. 1.4404
- **Diaphragm**: NBR/Buna-N with PTFE coating, optionally stainless steel
- **O-rings**: FKM, optionally EPDM

### Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D: diaphragm</th>
<th>K- value</th>
<th>Flow rate</th>
<th>Supply Connection</th>
<th>Pressure range</th>
<th>Order number</th>
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</thead>
<tbody>
<tr>
<td>mm</td>
<td>mm</td>
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<td>mm</td>
<td>mm</td>
<td></td>
<td>m³/h</td>
<td>m³/h*</td>
<td>bar</td>
<td>G</td>
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<tr>
<td>40 88 22</td>
<td>D</td>
<td>0.2</td>
<td>12</td>
<td>200 30</td>
<td>G¼</td>
<td>0.1…1.5</td>
<td>0.2…3.0</td>
<td>0.5…8.0</td>
<td>R3000-01AT</td>
</tr>
<tr>
<td>40 88 22</td>
<td>D</td>
<td>0.2</td>
<td>12</td>
<td>200 30</td>
<td>G¼</td>
<td>0.1…1.5</td>
<td>0.2…3.0</td>
<td>0.5…8.0</td>
<td>R3000-01BT</td>
</tr>
<tr>
<td>64 156 38</td>
<td>D</td>
<td>0.5</td>
<td>30</td>
<td>500 30</td>
<td>G¼</td>
<td>0.1…1.5</td>
<td>0.2…3.0</td>
<td>0.5…8.0</td>
<td>R3000-02AT</td>
</tr>
<tr>
<td>64 156 38</td>
<td>D</td>
<td>0.5</td>
<td>30</td>
<td>500 30</td>
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<td>0.1…1.5</td>
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<td>500 30</td>
<td>G¼</td>
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<td>0.5…8.0</td>
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<td>30</td>
<td>500 50</td>
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<td>2.0…30</td>
<td>3.0…50</td>
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<td>0.2…3.0</td>
<td>0.5…8.0</td>
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<td>500 30</td>
<td>G¼</td>
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<td>30</td>
<td>500 50</td>
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<td>2.0…30</td>
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<td>G¼</td>
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<td>132</td>
<td>2200 30</td>
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<td>0.1…1.5</td>
<td>0.2…3.0</td>
<td>0.5…8.0</td>
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<td>3.0…50</td>
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<td>390</td>
<td>6500 30</td>
<td>G¼</td>
<td>0.1…1.5</td>
<td>0.2…3.0</td>
<td>0.5…8.0</td>
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<td>6500 30</td>
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<td>0.2…3.0</td>
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<td>6500 50</td>
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<td>2.0…30</td>
<td>3.0…50</td>
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<td>R3000-08CT</td>
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<td>P</td>
<td>5.5</td>
<td>390</td>
<td>6500 50</td>
<td>50</td>
<td>2.0…30</td>
<td>3.0…50</td>
<td>50</td>
<td>R3000-08FT</td>
</tr>
</tbody>
</table>

* at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

---

**Order example:**

R3000-01AT

---

**Gauge ports:**

- G ½ up to 30 bar
- G ½ up to 50 bar

**Temperature ranges:**

- 0 °C to -80 °C / 32 °C to 176 °F for FKM or EPDM
- 0 °C to 130 °C / 32 °C to 266 °F for high temperature version

**Material:**

- Body/Inner valve: stainless steel 316L, material no. 1.4404
- Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel
- O-rings: FKM, optionally EPDM
### Pressure Regulator Made of Stainless Steel Throughout, up to 50 bar R3000

**Description**: Pressure regulator made of stainless steel throughout.

**Media**: Compressed air, gases or liquids

**Supply pressure**: See chart, max. 50 bar

**Adjustment**: By adjusting screw at R3000-01 to -A6, with locknut

**Relieving function**: Non-relieving, optionally relieving

**Gauge port**: G1/4 at R3000-01 and -A2, all others G1 on both sides of the body, one screw plug supplied

**Mounting position**: Any

**Temperature range**: 0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM

**Diaphragm**
- SST: diaphragm
- O-rings: FKM, optionally EPDM

**Material**: For appropriately conditioned compressed air down to -20 °C / -4 °F

Stainless steel throughout, up to 50 bar R3000

---

### SST Pressure Regulator

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Reg. system D</th>
<th>K,- value</th>
<th>Flow rate</th>
<th>Supply Connection</th>
<th>Pressure range</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>P: diaphragm</td>
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<td>m³/h</td>
<td>bar</td>
<td>G</td>
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</table>

**SST Pressure Regulator**

<table>
<thead>
<tr>
<th>121 385 128 K</th>
<th>12.6</th>
<th>900</th>
<th>15000</th>
<th>30</th>
<th>G1¼</th>
<th>0.2...3.0</th>
<th>0.5...8.0</th>
<th>R3000-12BT</th>
</tr>
</thead>
<tbody>
<tr>
<td>171 400 128 K</td>
<td>12.6</td>
<td>900</td>
<td>15000</td>
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<td>G2</td>
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<td>0.5...8.0</td>
<td>R3000-16BT</td>
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<td>25000</td>
<td>30</td>
<td>G2</td>
<td>0.1...1.5</td>
<td>0.5...6.0</td>
<td>R3000-16CT</td>
</tr>
</tbody>
</table>

---

**Special Options**

- **NPT connection thread**
- **Relieving diaphragm** up to G1
- **Relieving piston** up to G1
- **Low temperature version** from G1¼ (02) on
- **High temperature version** from G1¼ (01) on
- **FKM o-ring** for piston or PTFE diaphragm
- **EPDM o-ring** for G1¼ (02) to G1
- **FKM o-ring, FDA-approved** for G1¼ (02)
- **SST diaphragm** for G1¼ (01) to G1

**Media**
- **Nitrogen** N₂
- **Ammonia** NH₃
- **Carbon Dioxide** CO₂
- **Argon** Ar
- **Helium** He
- **Hydrogen** H₂
- **Methane** CH₄
- **Oxygen** O₂
- **Nitrous Oxide** N₂O
- **Water** H₂O

**Flange connection** see end of the chapter / flanges

**Order example**: R3000-...N

---

**Accessories, enclosed**

- **Pressure gauge**
  - Ø 40 mm, 0...6 bar, G1¼
  - Ø 50 mm, 0...6 bar, G½
  - Ø 63 mm, 0...10 bar, G½

- **Mounting bracket**
  - for G1¼ and G½ (A2)
  - for G½ (06) to G2

- **Mounting nut**
  - for G1¼ and G½ (A2)
  - for G½ (06) and G1

**Order example**: R3000-12BT

---

**Gauges: see chapter for measuring devices**

---

*Note:*
- *1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
- *2 G1¼ 0...6.5 bar, G2 0...10 bar, G½ 0...10 bar, G1/4 0...15 bar, G1/2 0...30 bar, G1 0...50 bar
**Pressure Regulator Made of Stainless Steel Throughout REA**

**Description**
Diaphragm-operated pressure regulator made of stainless steel throughout. Even when spindle is unscrewed the indicated minimum outlet pressure is existent.

**Media**
- compressed air, gases or liquids

**Supply pressure**
see chart, max. 25 bar

**Adjustment**
by T-handle, with locknut

**Relieving function**
non-relieving

**Gauge port**
G¼ on both sides of the body, one screw plug supplied

**Mounting position**
any

**Temperature range**
- 0 °C to 90 °C / 32 °F to 194 °F for NBR,
- 0 °C to 120 °C / 32 °F to 248 °F for FKPM,
- 0 °C to 150 °C / 32 °F to 302 °F for EPDM,
for appropriately conditioned compr. air down to -20 °C / -4 °F
for appropriately conditioned compr. air down to -30 °C / -22 °F
for appropriately conditioned compr. air down to -30 °C / -22 °F

**Material**
- Body: stainless steel 316L, mat. no. 1.4408
- Diaphragm: FKM, optionally NBR/Buna-N, EPDM or PTFE

---

### Dimensions

<table>
<thead>
<tr>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>K- value (m³/h)</th>
<th>Flow rate (m³/h)</th>
<th>Connection (l/min)</th>
<th>Pressure range (bar)</th>
<th>Order number</th>
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<td></td>
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<td>REA-06E</td>
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<tr>
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<td></td>
<td>0.2</td>
<td>3.0</td>
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<td>REA-08D</td>
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<td>6.0</td>
<td>16</td>
<td></td>
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<td>REA-08E</td>
</tr>
</tbody>
</table>

### Special options, add the appropriate letter

- **gaseous media** non-relieving, height +17 mm (02 and 04) +23 mm (-A4 to -08)
- **NBR/Buna-N diaphragm** FDA approved
- **EPDM diaphragm** FKM with PTFE coating and FKM o-ring
- **free of oil and grease** suitable for oxygen
- **flange connection**
  - PN40, DN15 to DN25
  - REA-...F
- **welded hexagon nipples**
  - DIN 3239 / DIN 11850-2 / ISO 4200, DN8 to DN25
  - REA-...A
- **milk pipe connection**
  - for liquids, supply pressure max. 8/25 bar, non-relieving, FKM

### Accessories, enclosed

- **pressure gauge**
  - Ø 50 mm, 0...2 bar, G¼ for G¼ and G½ (04)
  - Ø 63 mm, 0...2 bar, G¼ for G½ (A4) to G1
  - MS5002-...2
  - MS6302-...2

---

**Order example:**
REA-02B, accessory: gauge

**REA-02B, accessory: gauge**

**REA-A4D, accessory: gauge**

---

**Gauges:** see chapter for measuring devices

---

**PDF**

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**Order example:**
REA-02B
### Volume Booster Made of Stainless Steel Throughout, up to 50 bar

**R3000-J**

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume booster made of stainless steel throughout, without constant bleed, transmission ratio 1:1.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media</td>
<td>compressed air, gases or liquids</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>max. 50 bar</td>
</tr>
<tr>
<td>Pilot pressure</td>
<td>max. 15 bar at R3000-...J2, max. 50 bar at R3000-...JS, pilot port G½</td>
</tr>
<tr>
<td>Relieving function</td>
<td>non-relieving, optionally relieving</td>
</tr>
<tr>
<td>Gauge port</td>
<td>G½ on both sides of the body, one screw plug supplied</td>
</tr>
<tr>
<td>Mounting position</td>
<td>any</td>
</tr>
<tr>
<td>Temperature range</td>
<td>0 °C to 80 °C / 32 °C to 176 °F for FKM or EPDM, 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to −20 °C / −4 °F or low temperature version down to −40 °C / −40 °F</td>
</tr>
<tr>
<td>Material</td>
<td>Body: stainless steel 316L, material no. 1.4404 D-rings: FKM, optionally NBR/Buna-N or EPDM, Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel Inner valve: stainless steel 316L, material no. 1.4404</td>
</tr>
</tbody>
</table>

### Dimensions Regulating System K-Flow Connection Pilot Pressure Order Preis

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>M: Diaphragm</th>
<th>K-</th>
<th>Flow rate</th>
<th>Connection</th>
<th>Pilot pressure</th>
<th>Pressure range</th>
<th>Order</th>
<th>Preis</th>
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<tbody>
<tr>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>[m³]/h</td>
<td>m³/h</td>
<td>G¼</td>
<td>max. bar</td>
<td>bar</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>64</td>
<td>79</td>
<td>38</td>
<td>M</td>
<td>0.5</td>
<td>30</td>
<td>500</td>
<td>G¼</td>
<td>1...15</td>
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<td>64</td>
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<td>K</td>
<td>1.0</td>
<td>72</td>
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<td>G½</td>
<td>1...15</td>
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<td>80</td>
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<td>M</td>
<td>5.0</td>
<td>360</td>
<td>6000</td>
<td>G¾</td>
<td>1...15</td>
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<td>107</td>
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<td>K</td>
<td>12</td>
<td>840</td>
<td>14000</td>
<td>G1½</td>
<td>1...15</td>
<td>R3000-12J2T</td>
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<tr>
<td>116</td>
<td>136</td>
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<td>M</td>
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<td>G½</td>
<td>1...15</td>
<td>R3000-08J2T</td>
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<tr>
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<td>G2</td>
<td>1...15</td>
<td>R3000-16J2T</td>
<td>1710,00</td>
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<td>K</td>
<td>12</td>
<td>900</td>
<td>15000</td>
<td>G2</td>
<td>1...15</td>
<td>R3000-16J5T</td>
<td>2080,00</td>
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</table>

### Special options, add the appropriate letter or number

- Reliefing diaphragm for R3000-02J2 to -08J2 R3000-...J2J. R
- Relieving piston for R3000-12J, -16J and -...J5 R3000-...J2J. R
- Down to −40 °C / −40 °F low temperature version R3000-...J51
- Up to 130 °C / 266 °F high temperature version R3000-...J54
- FKM O-ring for piston regulator or PTFE diaphragm R3000-...J5E
- EPDM O-ring R3000-...J5E
- SST diaphragm FKM -O-Ring R3000-...J5E
- EPDM-O-Ring R3000-...J5E
- Tapped exhaust R3000-...X12
- Nitrogen N₂: 07 ammonia NH₃: 02 carbon dioxide CO₂: 03 argon Ar: 05 helium He: 09 hydrogen H₂: 11 methane CH₄: 13 oxygen O₂: 15 propane C₃H₈: 16 nitrogen N₂O: 17 water H₂O: 16 flange connection see end of the chapter / flanges

### Accessories, enclosed

- Pressure gauge Ø 50 mm, 0…2.5 bar, G¼ for G¼ and G½ MS5002-...R²
- Pressure gauge Ø 63 mm, 0…4 bar, G½ for G½ and G1 MS6302-...R²
- Mounting bracket for G½ and G1 BW00-27S

### Gauges: see chapter for measuring devices

---

* R3000-J

---

*1 at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop

*2 02 = 0…2.5 bar, 04 = 0…4 bar, 06 = 0…6 bar, 10 = 0…10 bar, 16 = 0…16 bar, 60 = 0…60 bar

---

PDf CAD www.aircom.net

Order example: R3000-02J2T
### Stainless Steel High Pressure Regulator, up to 380 bar RHB-S

**Description**
Diaphragm-operated high pressure regulator made of stainless steel.

**Media**
compressed air or gases

**Supply pressure**
max. 380 bar

**Adjustment**
by T-handle with locknut

**Relieving function**
non-relieving

**Gauge port**
1/4" NPT on both sides of the body, screw plugs supplied

**Mounting position**
any

**Temperature range**
0 °C to 106 °C / 32 °F to 223 °F, for appropriately conditioned compressed air down to -40 °C / -40 °F

**Material**
- **Body:** stainless steel 316, material no. 1.4401
- **Diaphragm:** Monel 400
- **O-rings:** NBR/Buna-N
- **Valve seat:** nylon, optionally PTFE

### High pressure regulator, max. 380 bar

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>K&lt;sub&gt;v&lt;/sub&gt; value</th>
<th>Flow rate</th>
<th>Connection thread</th>
<th>Pressure range</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (mm)</td>
<td>B (mm)</td>
<td>C (mm)</td>
<td>(m³/h)</td>
<td>NPT</td>
<td>bar</td>
</tr>
<tr>
<td>85</td>
<td>156</td>
<td>60</td>
<td>0.13</td>
<td>240</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1/4&quot; NPT</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>0.3... 4</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.3... 15</td>
<td></td>
</tr>
</tbody>
</table>

**Accessories, enclosed**

- **tamper-proof cap** made of SST, adjustment by screwdriver, total height 150 mm RHB-02 . ST
- **PTFE valve seat** RHB-02 . S1

### Accessories, enclosed

**tamper-proof cap** made of SST, adjustment by screwdriver, total height 150 mm RHB-02 . ST

**PTFE valve seat** RHB-02 . S1

---

*1 at 138 bar supply pressure and 10 bar outlet pressure

---

**Order example:**
RHB-02AS
Stainless Steel High Pressure Regulator, up to 200 bar Outlet Pressure RH3000

**Description**
Hand-operated, spring-loaded high pressure regulator for maximum supply pressure of 220 bar and maximum outlet pressure of 200 bar. For outlet pressures up to 15 bar the regulator has a diaphragm, for higher outlets a piston. A sintered bronze filter at the inlet port protects against contamination.

**Media**
compressed air or non-corrosive gases

**Supply pressure**
max. 220 bar

**Adjustment**
by hexagon head screw at RH3000-02, T-handle at RH3000-03 to -10, with locknut

**Gauge port**
All regulators are equipped with both one supply pressure gauge and one outlet pressure gauge.

**Safety relief valve**
prevents from overpressure, see chart

**Cominensation**
All regulators are equipped with supply pressure variation compensation, so that a change in supply pressure has no effect on the outlet pressure's stability.

**Temperature range**
-20 °C to 60 °C / -4 °F to 140 °F

**Material**
- **Body:** stainless steel 316
- **Filter:** stainless steel 316
- **Valve seat:** FKM
- **O-ring:** FKM / PTFE
- **Piston:** stainless steel 316

**High pressure regulator 200 bar**

<table>
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<th>Dimensions</th>
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<th>Kₐ, value</th>
<th>Flow rate</th>
<th>Connection thread</th>
<th>Pressure range</th>
<th>Order number</th>
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<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>321</td>
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</tr>
<tr>
<td>S</td>
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<td>58330</td>
<td></td>
<td></td>
<td>5...50</td>
<td></td>
</tr>
</tbody>
</table>

**Special options**, add the appropriate letter or number

- **relieving diaphragm** RH3000- . . . R
- **relieving piston** RH3000- . . . R
- **EPDM elastomer** RH3000- . . . E
- for panel mounting RH3000- . . . P

**Nitrogen** N₂: 07  **carbon dioxide** CO₂: 03  **argon** Ar: 05
**Helium** He: 09  **hydrogen** H₂: 11  **methane** CH₄: 13
**Oxygen** O₂: 15  **propane** C₃H₆: 16  **nitrous oxide** N₂O: 17

**Accessories**, enclosed

- **mounting bracket** for RH3000-02 to -A3 BW30-03S
- **mounting nut** for RH3000-02 to -A3 M30x1.5S
- **mounting bracket** for RH3000-06 BW00-31S
- **mounting bracket** for RH3000-08 BW00-35S

**Order example:** RH3000-02A

---

*1 at 200 bar supply pressure and max. outlet pressure
*2 max. 80 bar
**Low Pressure Regulator Made of Stainless Steel Throughout R3100**

**Description**
Precision low pressure regulator with large diaphragm, completely made of stainless steel.

**Media**
Compressed air or gases

**Supplies pressure**
Max. 6 bar

**Air consumption**
Without constant bleed

**Adjustment**
By adjusting screw at pressure R3100-04, with locknut

**Relieving function**
Non-relieving

**Diameter port**
G½ on both sides of the body, one screw plug supplied

**Mounting position**
Any

**Temperature range**
0 °C to 60 °C / 32 °F to 140 °F, for appropriately conditioned compressed air down to -20 °C / -4 °F

**Material**
Body: stainless steel 316L, material no. 1.4404 O-rings: FKM Diaphragm: NBR/Buna-N with PTFE coating Inner valve: stainless steel 316L / 1.4404

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Kₐ value</th>
<th>Flow rate</th>
<th>Connection thread</th>
<th>Pressure range</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A mm</td>
<td>B mm</td>
<td>C mm</td>
<td>(m³/h)</td>
<td>G</td>
<td>mbar</td>
</tr>
<tr>
<td>80</td>
<td>177</td>
<td>37</td>
<td>0.4</td>
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<tr>
<td>126</td>
<td>311</td>
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<td>20…200</td>
<td>R3100-04C</td>
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<td>422</td>
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<td>20…50</td>
<td>R3100-04D</td>
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<tr>
<td>171</td>
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<td>128</td>
<td>5.7</td>
<td>20…50</td>
<td>R3100-04E</td>
</tr>
</tbody>
</table>

**Special options, add the appropriate letter or number**

- **NPT**
  - Nitrogen: N₂: 07
  - Argon: Ar: 05
  - Methane: CH₄: 13

- **Flange connection**
  See end of the chapter / flanges

**Accessories, enclosed**

- **Pressure gauge**
  Ø 63 mm, 0…600 mbar, G½, capsule type up to 600 mbar, MS6302-03

- **Mounting bracket**
  BW00-26S

**Specifications**

- **Order example:**
  R3100-04A

---

* at 6 bar supply pressure and 1 bar pressure drop
*² G½ thread at outlet
*³ B6 = 0…60 mbar, C3 = 0…250 mbar, C4 = 0…400 mbar, C6 = 0…600 mbar, 02 = 0…2 bar, 04 = 0…4 bar, 06 = 0…6 bar

**Gauges:** see chapter for measuring devices
**Stainless Steel Back Pressure Regulator for Low Pressure**

**D3100**

---

### Description

The diaphragm back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.

### Media

compressed air, gases or liquids

### System pressure

max. 6 bar

### Adjustment

by adjusting screw, with tamper-proof locknut

### Gauge port

G½ on both sides of the body, screw plugs supplied

### Mounting position

any

### Temperature range

0 °C to 80 °C / 32 °F to 176 °F for FKM, or EPDM.

### Material

- **Body:** stainless steel 316L, material no. 1.4404
- **Diaphragm:** NBR/Buna-N with PTFE coating, optionally stainless steel
- **O-rings:** FKM, optionally NBR or EPDM

### Back pressure regulator

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Exhaust rate</th>
<th>Over-pressure</th>
<th>Connection thread</th>
<th>Adjustment range</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (mm)</td>
<td>B (mm)</td>
<td>C (mm)</td>
<td>I/min*1</td>
<td>max. bar</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td>177</td>
<td>37</td>
<td>300</td>
<td>6</td>
<td>G½ 5…45</td>
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<td></td>
<td>500</td>
<td>1000</td>
<td></td>
<td></td>
<td>D3100-04AT</td>
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<tr>
<td>126</td>
<td>310</td>
<td>66</td>
<td>800</td>
<td>6</td>
<td>G1 20…50</td>
</tr>
<tr>
<td></td>
<td>1300</td>
<td>2300</td>
<td></td>
<td></td>
<td>D3100-08AT</td>
</tr>
<tr>
<td></td>
<td>2500</td>
<td>5000</td>
<td></td>
<td></td>
<td>D3100-16AT</td>
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<tr>
<td>215</td>
<td>407</td>
<td>128</td>
<td>2500</td>
<td>6</td>
<td>G2 20…50</td>
</tr>
<tr>
<td></td>
<td>5000</td>
<td>7500</td>
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<td>D3100-16CT</td>
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<td>10000</td>
<td>10000</td>
<td></td>
<td></td>
<td>D3100-16DT</td>
</tr>
</tbody>
</table>

**Special options,** add the appropriate letter or number

- **NPT** connection thread
- **FKM o-ring**
- **EPDM o-ring**
- **nitrogen** N₂ 07
- **ammonia** NH₃ 02
- **carbon dioxide** CO₂ 03
- **argon** Ar 05
- **helium** He 09
- **hydrogen** H₂ 11
- **methane** CH₄ 13
- **oxygen** O₂ 15
- **propane** C₃H₈ 16
- **nitrous oxide** N₂O 17

---

### Accessories, enclosed

- **pressure gauge** Ø 63 mm, 0…50 mbar, G½, capsule type
- **gauge connection parts** Ø 63 mm, 0…1 bar, G½, Bourdon tube
- **mounting bracket**

**Gauges:** see chapter for measuring devices

---

*1 at 6 bar overpressure and open outlet

*2 B6 = 0…50 mbar, C3 = 0…250 mbar

---

**Order example:**

D3100-04AT
### Back Pressure Regulator Made of Stainless Steel Throughout

**Description**
The back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.

**Media**
compressed air, gases or liquids

**System pressure**
see chart, max. 65 bar

**Adjustment**
by adjusting screw at D3000-01 to -A6, with locknut by T-handle at D3000-06 to -16, with locknut

**Gauge port**
for inlet pressure, G¼ on both sides of the body at D3000-01, all others G½, screw plugs supplied

**Mounting position**
any

**Temperature range**
0 °C to -80 °C / 32 °C to 176 °F for FKM or EPDM 0 °C to 130 °C / 32 °C to 266 °F for high temperature version for appropriately conditioned compressed air down to -20 °C / -4 °F or low temperature version down to -40 °C / -40 °F

**Material**
Body: stainless steel 316L, material no 1.4404 O-rings: FKM, optionally NBR/Buna-N or EPDM Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel Inner valve: stainless steel 316L, material no 1.4404

---

**Dimensions**

<table>
<thead>
<tr>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>Regul. system</th>
<th>Exhaust rate</th>
<th>Over-pressure max. bar</th>
<th>Connection</th>
<th>Adjustment range</th>
<th>Order number</th>
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<tbody>
<tr>
<td>40</td>
<td>82</td>
<td>13</td>
<td>D: Diaphragm</td>
<td>200</td>
<td>30</td>
<td>G½</td>
<td>0.1...1.5</td>
<td>D3000-01AT</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>P: Piston</td>
<td></td>
<td></td>
<td></td>
<td>0.2...3.0</td>
<td>D3000-01BT</td>
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<tr>
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<td></td>
<td></td>
<td>0.5...8.0</td>
<td>D3000-01DT</td>
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<td>1.0...15</td>
<td>D3000-01ET</td>
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<td>30</td>
<td>G¼</td>
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<td>D3000-02AT</td>
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<td>1.0...15</td>
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<tr>
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<td>176</td>
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<td>65</td>
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<td>163</td>
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<td>30</td>
<td>G½</td>
<td>0.1...1.5</td>
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<td>37</td>
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<td>65</td>
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<td></td>
<td>3.0...50</td>
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<tr>
<td>79</td>
<td>163</td>
<td>37</td>
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<td>1500</td>
<td>30</td>
<td>G¼</td>
<td>0.1...1.5</td>
<td>D3000-06AT</td>
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<td>0.2...3.0</td>
<td>D3000-06BT</td>
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<td>D3000-06DT</td>
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<td>283</td>
<td>66</td>
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<td>6000</td>
<td>30</td>
<td>G¼</td>
<td>0.1...1.5</td>
<td>D3000-06AT</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>P: Piston</td>
<td></td>
<td></td>
<td></td>
<td>0.2...3.0</td>
<td>D3000-06BT</td>
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<td>0.5...8.0</td>
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<td></td>
<td>1.0...15</td>
<td>D3000-06ET</td>
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<tr>
<td>126</td>
<td>305</td>
<td>66</td>
<td>P: Piston</td>
<td>6000</td>
<td>65</td>
<td></td>
<td>2.0...30</td>
<td>D3000-06FT</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>3.0...50</td>
<td>D3000-06GT</td>
</tr>
</tbody>
</table>

* at 7 bar overpressure and open outlet

**Order example:**
D3000-01AT

---

**Gauges:**
see chapter for measuring devices
Back Pressure Regulator Made of Stainless Steel Throughout D3000

Description
The back pressure regulator protects compressed air devices from excessive pressure. If the pressure setpoint is exceeded, overpressure is vented into the atmosphere until the setpoint is reached again. It is recommended to choose a pressure range as low as possible.

Material
Body: stainless steel 316L, material no 1.4404
Diaphragm: NBR/Buna-N with PTFE coating, optionally stainless steel
O-rings: FKM, optionally NBR/Buna-N or EPDM
Inner valve: stainless steel 316L, material no 1.4404

Dimensions
- Regul. system: D:
- Exhaust: P:
- Over-pressure thread: 0:
- Connection range: G:
- Order number: D3000-

Back pressure regulator
- Overpressure max. 30 / 65 bar, PTFE diaphragm and FKM o-ring

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Regul. system</th>
<th>Exhaust</th>
<th>Over-pressure</th>
<th>Connection</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (mm)</td>
<td>B (mm)</td>
<td>C (mm)</td>
<td>max. bar</td>
<td>range bar</td>
<td></td>
</tr>
<tr>
<td>126</td>
<td>283</td>
<td>66</td>
<td>30</td>
<td>G1</td>
<td>D3000-08AT</td>
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<tr>
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<td>305</td>
<td>66</td>
<td>65</td>
<td>G1</td>
<td>D3000-08BT</td>
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<tr>
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<td>348</td>
<td>87</td>
<td>30</td>
<td>G1½</td>
<td>D3000-12AT</td>
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<tr>
<td>200</td>
<td>348</td>
<td>87</td>
<td>65</td>
<td>G1½</td>
<td>D3000-12TE</td>
</tr>
<tr>
<td>200</td>
<td>348</td>
<td>87</td>
<td>30</td>
<td>G2</td>
<td>D3000-16AT</td>
</tr>
<tr>
<td>200</td>
<td>348</td>
<td>87</td>
<td>65</td>
<td>G2</td>
<td>D3000-16TE</td>
</tr>
</tbody>
</table>

Special options
- add the appropriate letter or number

NPT
- relieving diaphragm
- relieving piston
- up to -40 °C / -40 °F
- up to 130 °C / 266 °F

FKM o-ring
- for piston or PTFE diaphragm
- for SS diaphragm

EPDM o-ring
- for appropriate conditioned compressed air down to -40 °C / -40 °F

SST diaphragm
- for high temperature version

Nitrogen: N₂
- Argon: Ar
- Methane: CH₄
- Nitrous oxide: N₂O

Flange connection
- see end of the chapter / flanges

Accessories
- Pressure gauge
- Mounting bracket
- Mounting nut
- Mounting bracket
- Mounting bracket
- Mounting bracket

Gauges: see chapter for measuring devices

Order example: D3000-08AT

PDF CAD www.aircom.net
Pressure Regulator Made of Stainless Steel, Suitable for Pharmacy  

**Description**

Piston-operated pressure regulator made of stainless steel up to pressure range of 52 bar, independent to inlet pressure.

**Note**

It is recommended to select an outlet diameter at least one time larger than the main valve’s diameter.

**Media**

compressed air, gases, liquids or steam (R70-02 not suitable for steam)

**Supply pressure**

max. 16 bar at R70-02, max. 40 bar at R70-16/-20, max. 63 bar at R70-03/-06 to -12, max. 100 bar at R70-04

**Adjustment**

by wing screw at R70-02, by T-handle at R70-03 to -20

**Relieving function**

non-relieving

**Gauge port**

G¼ on both sides of the body

**Temperature range**

0 °C to 140 °C / 32 °F to 284 °F, EPDM, steamable, 0 °C to 150 °C / 32 °F to 302 °F, PTFE/EPDM for steam 0 °C to 200 °C / 32 °F to 392 °F, PTFE/AF100/EPDM for steam

**Body**

stainless steel 1.4301 or 1.4571 (R70-02), optionally 1.4435

**Springs**

stainless steel 1.4301

**Seals**

EPDM, optionally PTFE

**Temperature range**

0 °C to 140 °C / 32 °F to 284 °F, EPDM, steamable, 0 °C to 150 °C / 32 °F to 302 °F, PTFE/EPDM for steam 0 °C to 200 °C / 32 °F to 392 °F, PTFE/AF100/EPDM for steam

**Material**

Body: stainless steel 1.4301 or 1.4571 (R70-02), optionally 1.4435

**Springs**

stainless steel 1.4301

**Seals**

EPDM, optionally PTFE

**Order example:** R70-02A

**Material**

Body: stainless steel 1.4301 or 1.4571 (R70-02), optionally 1.4435

**Springs**

stainless steel 1.4301

**Seals**

EPDM, optionally PTFE

**Temperature range**

0 °C to 140 °C / 32 °F to 284 °F, EPDM, steamable, 0 °C to 150 °C / 32 °F to 302 °F, PTFE/EPDM for steam 0 °C to 200 °C / 32 °F to 392 °F, PTFE/AF100/EPDM for steam

**Brand**

SST pressure regulator R70 supply max. 16 / 63 / 100 bar, non-relieving for compressed air, gas, water and steam

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Nominal Kₐ</th>
<th>Flow rate</th>
<th>Connection</th>
<th>Supply Pressure</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (mm)</td>
<td>B (mm)</td>
<td>C (mm)</td>
<td>DN</td>
<td>l/min**1</td>
<td>G</td>
</tr>
<tr>
<td>58</td>
<td>185</td>
<td>36</td>
<td>8</td>
<td>0.63</td>
<td>24</td>
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<tr>
<td>70</td>
<td>253</td>
<td>48</td>
<td>10</td>
<td>2.0</td>
<td>55</td>
</tr>
<tr>
<td>90</td>
<td>333</td>
<td>58</td>
<td>15</td>
<td>3.0</td>
<td>120</td>
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<tr>
<td>105</td>
<td>368</td>
<td>68</td>
<td>25</td>
<td>6.3</td>
<td>350</td>
</tr>
</tbody>
</table>

*1 at flow velocity 10 m/s

**2 at 2.5 m/s

**3 not for R70-02

**4 P₁ max. = P₂ max. + 25 bar
## Pressure Regulator Made of Stainless Steel, Suitable for Pharmacy

### Pharmacy and food-safe version

**Description**

The pharmacy version (option P) standard design is completely made of stainless steel, independent of inlet pressure, sealed at zero consumption, with EPDM and steamable up to 140 °C / 284 °F. Media contact parts have roughness of $R_a < 2.6 \ \mu m$.

**Special options**

Add the appropriate letter to the order number:

- **Outer surface**
  - Valve body: electropolished
  - Complete valve: electropolished
  - Media contact parts: $R_a < 1.6 \ \mu m$, $R_a < 0.8 \ \mu m$

- **Inner surface**
  - Glass bead shot-peened
  - Glass bead shot-peened
  - Ground/polished $R_a 1.2 \ \mu m$

- **Connection**
  - Asperic flange as per DIN 11864-2
  - Flange as per DIN 2633 (PN16)
  - Threaded connection as per DIN 11851
  - Clamp fittings as per DIN 32676

**Dimensions Nominal K_v- Flow rate Connection Supply Pressure Order number**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>size</th>
<th>DN (m³/h)</th>
<th>l/min</th>
<th>l/min*</th>
<th>G</th>
<th>bar</th>
<th>bar</th>
</tr>
</thead>
<tbody>
<tr>
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<td>410</td>
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<td>40</td>
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<td>900</td>
<td>120</td>
<td>G1½</td>
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<td>2.0</td>
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<td>2.4</td>
<td>4.8</td>
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<td></td>
<td></td>
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<tr>
<td>4.8</td>
<td>9.6</td>
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<tr>
<td>9.5</td>
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<td></td>
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</tbody>
</table>

R70-12A

| 145| 410| 85 | 50   | 13.0     | 1300  | 160   | G2   | 1.0 | 2.0 |
| 2.4 | 4.8 |
| 4.8 | 9.6 |
| 9.5 | 19  |

R70-16A

| 220| 685| 145| 65   | 28.0     | 3200  | 420   | G2½  | 0.25 | 0.4 |
| 0.5 | 1.1 |
| 1.3 | 2.6 |
| 2.8 | 5.6 |
| 6.0 | 12  |

R70-20A

### Special options

**Add the appropriate letter to the order number:**

- **NPT**
  - Connection thread
  - for G½ up to G1

- **stainless steel 1.4435**
  - Housing 1.4435, spring cage 1.4301

- **up to 150 °C / 302 °F**
  - PTFE seals

- **up to 200 °C / 392 °F**
  - PTFE / AF100 seals

- **tamper-proof cap**
  - Adjustment by spanner, height 35 mm lower

- **drainage**
  - Through bottom screw

- **volume booster**
  - Pneumatic pressure setting

- **for pharmacy**
  - Forged stainless steel, $R_a < 2.6 \ \mu m$, steamable, EPDM

- **CIP cleaning**
  - Pressure regulator sterilisable and minimal dead spots

- **for food industry**
  - EPDM elastomer with FDA approval

### Accessories, enclosed

- **Pressure gauge**
  - Ø 63 mm, 0…40 bar, G½

### Gauges: see chapter for measuring devices

**Order example:**

R70-12A
### Low Pressure Regulator Made of Stainless Steel, Suitable for Pharmacy R74

**Description**
Diaphragm-operated pressure regulator completely made of stainless steel for very low outlet pressure, independent of inlet pressure.

**Note**
It is recommended to select an outlet diameter at least one time larger than the main valve's diameter.

**Media**
compressed air or gases

**Supply pressure**
max. 25 bar at R74-02 to -A8, max. 16 bar at R74-08/16

**Adjustment**
by T-handle with locknut

**Relieving function**
non-relieving

**Gauge port**
G¾ on both sides of the body

**Mounting position**
spring cage downward

**Temperature range**
0 °C to 140 °C / 32 °F to 284 °F for EPDM, steamable

**Material**
- Body: stainless steel 1.4301, optionally 1.4435
- Spring cage: stainless steel 1.4301
- Diaphragm: EPDM
- Seals: EPDM
- O-rings: EPDM

**Dimension Nominal Kᵢ Flow Connection Diaphragm Supply Pressure Order number**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>size</th>
<th>value</th>
<th>air</th>
<th>water</th>
<th>thread</th>
<th>recomm. range</th>
<th>number</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>368</td>
<td>48</td>
<td>8</td>
<td>1.2</td>
<td>30</td>
<td>1.8</td>
<td>G¾</td>
<td>405</td>
<td>0.5</td>
</tr>
<tr>
<td>70</td>
<td>368</td>
<td>48</td>
<td>10</td>
<td>2.0</td>
<td>30</td>
<td>1.8</td>
<td>G½</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>70</td>
<td>368</td>
<td>48</td>
<td>15</td>
<td>2.2</td>
<td>30</td>
<td>1.8</td>
<td>G½</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>90</td>
<td>368</td>
<td>58</td>
<td>15</td>
<td>3.0</td>
<td>120</td>
<td>7.2</td>
<td>G¾</td>
<td>405</td>
<td>0.5</td>
</tr>
<tr>
<td>90</td>
<td>368</td>
<td>58</td>
<td>20</td>
<td>3.2</td>
<td>120</td>
<td>7.2</td>
<td>G½</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>90</td>
<td>368</td>
<td>58</td>
<td>25</td>
<td>3.5</td>
<td>120</td>
<td>7.2</td>
<td>G½</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>105</td>
<td>388</td>
<td>68</td>
<td>25</td>
<td>6.3</td>
<td>370</td>
<td>22</td>
<td>G1</td>
<td>405</td>
<td>0.5</td>
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<tr>
<td>105</td>
<td>388</td>
<td>68</td>
<td>30</td>
<td>6.8</td>
<td>370</td>
<td>22</td>
<td>G½</td>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>

**Adjustment**
by T-handle with locknut

**Relieving function**
non-relieving

**Mounting position**
spring cage downward

**Material**
- Body: stainless steel 1.4301, optionally 1.4435
- Spring cage: stainless steel 1.4301
- Diaphragm: EPDM
- Seals: EPDM
- O-rings: EPDM

*1 at 10 m/s flow velocity
*2 at 1.5 m/s flow velocity
Low Pressure Regulator Made of Stainless Steel, Suitable for Pharmacy  R74

**Description**
The pharmacy version (option P) standard design is completely made of stainless steel, independent of inlet pressure, sealed at zero consumption, with EPDM and steamable up to 140 °C / 284 °F. Media contact parts have roughness of Ra < 2.6 μm.

**Special options**
Add the appropriate letter to the order number:

- **Outer surface**
  - **Valve body:** electropolished
  - **Complete valve:** electropolished
  - **Media contact parts:** Ra < 1.6 μm

- **Inner surface**
  - **Valve body:** electropolished
  - **Complete valve:** electropolished
  - **Media contact parts:** Ra < 0.8 μm

- **Connection**
  - **Aseptic flange as per DIN 11864-2**
  - **Flange as per DIN 2633 (PN16)**
  - **Threaded connection as per DIN 11851**
  - **Clamp fittings as per DIN 32676**

**Low pressure regulator**

| Dimension Nominal Kₐ Flow Connection Diaphragm Supply Pressure Order number |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A   | B   | C   | size | value | air | water | thread | recomm. range | number |
| mm  | mm  | mm  | DN (m³/h) | l/min* | G | Ø mm | < bar | mbar |
| 145 | 435 | 85  | 50    | 13.0  | 1350| 81   | G2²  | 6            | R74-16A |
|     |     |     |       | 0.5   | 4... | 6    | R74-16B |
|     |     |     |       | 0.5   | 5... | 11   | R74-16C |
|     |     |     |       | 0.5   | 10...| 19   | R74-16D |
|     |     |     |       | 0.8   | 17...| 33   | R74-16E |
|     |     |     |       | 1.2   | 27...| 54   | R74-16F |
|     | 310 | 1.0  | 2.0   | 60... | 110 | R74-16G |
|     | 245 | 4.0  | 120...| 250   | R74-16H |
|     | 16  | 190...| 380   | R74-16I |
|     | 16  | 250...| 500   | R74-16J |
|     | 16  | 400...| 790   | R74-16K |

**Special options**
Add the appropriate letter:

- **NPT**
  - **connection thread**

- **stainless steel 1.4435**
  - housing 1.4435, spring cage 1.4301 for G½ up to G1

- **tamper-proof cap**
  - adjustment by spanner, height 40 mm lower

- **volume booster**
  - pneumatic pressure setting

- **for pharmacy**
  - forged stainless steel, Ra < 2.6 μm, steamable, EPDM

- **CIP cleaning**
  - pressure regulator sterilisable and minimal dead spots

- **for food industry**
  - EPDM elastomer with FDA approval

**Accessories, enclosed**

- **pressure gauge**
  - Ø 63 mm, 0...² bar, G½, capsule type, 0...100 °C / 32...212 °F

**Order example:**
R74-16A

**Gauges: see chapter for measuring devices**
**Filter Regulator Made of Stainless Steel Throughout, up to 50 bar**  

**B3000**

### Description
Filter pressure regulator with bowl without sight glass completely made of stainless steel. Application examples are the chemistry, petroleum processing as well as food industry and medical technology, compressed air, gases or liquids.

### Media
- by hexagon socket screw with locknut
- G¼ on both sides of the body, G¾ at B3000-01, one screw plug supplied
- 50 μm, optionally 5 μm, made of stainless steel
- Material: stainless steel 316L, material no. 1.4404

### Temperature range
- 20 °C to 60 °C / 4 °F to 140 °F for NBR/Buna-N, EPDM or FKM
- 20 °C to 130 °C / 4 °F to 266 °F for high temperature version
- down to -40 °C / -40 °F for stainless steel diaphragm

### Material
- Body: stainless steel 316L, material no. 1.4404
- O-rings: FKM, optionally EPDM
- Diaphragm: NBR/Buna-N with PTFE coating

### Special options, add the appropriate letter or number

<table>
<thead>
<tr>
<th>5 μm filter element</th>
<th>for G¼ (02) to G¾ (A6)</th>
<th>for G¼ (06) and G1</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT connection thread</td>
<td>B3000-...G</td>
<td>B3000-...N</td>
</tr>
<tr>
<td>0.2... 3 bar pressure range</td>
<td>B3000-...B</td>
<td>B3000-...D</td>
</tr>
<tr>
<td>manual drain</td>
<td>max. 30 bar</td>
<td>for G¼ (02) to G1</td>
</tr>
<tr>
<td>automatic drain</td>
<td>max. 16 bar</td>
<td>for G¼ (02) to G1</td>
</tr>
<tr>
<td>non-relieving</td>
<td>without relieving function</td>
<td></td>
</tr>
<tr>
<td>up to -40 °C / -40 °F</td>
<td>low temperature version</td>
<td></td>
</tr>
<tr>
<td>up to 130 °C / 266 °F</td>
<td>high temperature version</td>
<td></td>
</tr>
<tr>
<td>EPD elastomer</td>
<td>for G¾ (03)</td>
<td></td>
</tr>
<tr>
<td>SST diaphragm</td>
<td>not for water</td>
<td></td>
</tr>
<tr>
<td>nitrogen N₂: 07</td>
<td>ammonia NH₃: 02</td>
<td>carbon dioxide CO₂:</td>
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<tr>
<td>argon Ar: 05</td>
<td>helium He: 09</td>
<td>hydrogen H₂:</td>
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<tr>
<td>methane CH₄: 13</td>
<td>oxygen O₂: 15</td>
<td>propane C₃H₈:</td>
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<tr>
<td>flange connection</td>
<td>see end of the chapter / flanges</td>
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<tr>
<td>FDA material</td>
<td>stainless steel diaphragm, O-rings EPDM for G¼</td>
<td></td>
</tr>
</tbody>
</table>

### Accessories, enclosed

- Pressure gauge: Ø 40 mm, 0-4 bar, G¼
- Mounting bracket: Ø 63 mm, 0-4 bar, G¼
- Mounting bracket: Ø 50 mm, 0-4 bar, G¼
- Mounting bracket: Ø 43 mm, 0-4 bar, G¼

### Filter pressure regulator

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>B3000</th>
<th>B3000-01H</th>
<th>B3000-02</th>
<th>B3000-03</th>
<th>B3000-04</th>
<th>B3000-05</th>
<th>B3000-06</th>
<th>B3000-07</th>
<th>B3000-08</th>
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<td>l</td>
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<td>50</td>
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<td>B3000-02</td>
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<td>50</td>
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<td>50</td>
<td>50</td>
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<td>B3000-04</td>
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<td>B3000-07</td>
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<tr>
<td>B3000-08</td>
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<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
</table>

### Accessories, enclosed

- Pressure gauge: Ø 40 mm, 0-4 bar, G¼
- Mounting bracket: Ø 63 mm, 0-4 bar, G¼
- Mounting bracket: Ø 50 mm, 0-4 bar, G¼
- Mounting bracket: Ø 43 mm, 0-4 bar, G¼

### Special options, add the appropriate letter or number

- 5 μm filter element: for G¼ (02) to G¾ (A6) and G1
- NPT connection thread: B3000-...G
- 0.2... 3 bar pressure range: B3000-...B
- Manual drain: max. 30 bar, B3000-...H
- Automatic drain: max. 16 bar, B3000-...R
- Non-relieving: without relieving function, B3000-...K
- Up to -40 °C / -40 °F: low temperature version, B3000-...X51
- Up to 130 °C / 266 °F: high temperature version, B3000-...X54
- EPD elastomer: B3000-...E
- SST diaphragm: not for water, B3000-...S
- Nitrogen N₂: 07
- Ammonia NH₃: 02
- Carbon dioxide CO₂: B3000-...03
- Argon Ar: 05
- Helium He: 09
- Hydrogen H₂: B3000-...11
- Methane CH₄: 13
- Oxygen O₂: 15
- Propane C₃H₈: B3000-...16
- Nitrous oxide N₂O: B3000-...17
- Flange connection: see end of the chapter / flanges
- FDA material: stainless steel diaphragm, O-rings EPDM for G¼

### Order example:
B3000-01H

**Extensions:**
- see chapter for measuring devices
- Spare parts: see separate spare parts list

---

* at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure - 04 = 0...4 bar, 10 = 0...10 bar, 16 = 0...16 bar - * from G¼ (02) on

---

**Order example:**
B3000-01H

---

**PDF CAD**
www.aircom.net

---

15.18
**Filter Regulator Made of Stainless Steel**

**B548-S / B11-S**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Bowl</th>
<th>Flow</th>
<th>Supply</th>
<th>Connection</th>
<th>Pressure</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>l/min</td>
<td>bar G</td>
<td>G bar</td>
<td></td>
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<tr>
<td><strong>Miniature filter pressure regulator</strong></td>
<td>manual drain, relieving, w/o gauge, 20 μm filter element</td>
<td><strong>B548-S</strong></td>
<td></td>
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</tr>
<tr>
<td>40</td>
<td>156</td>
<td>95</td>
<td>0.04</td>
<td>27</td>
<td>450</td>
<td>21 G¼</td>
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<tr>
<td>0.2…1.8</td>
<td><strong>B548-02DHAS</strong></td>
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<td>0.2…4.0</td>
<td><strong>B548-02DHBS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.3…9.0</td>
<td><strong>B548-02DHCS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **“Midi” filter pressure regulator** | manual drain, relieving, w/o gauge, 40 μm filter element | **B11-S** |
| 62 | 216 | 125 | 0.12 | 138 | 2300 | 21 G½ |
| 0.2…1.8 | **B11-04DJAS** |
| 0.2…4.0 | **B11-04DJBS** |
| 0.3…9.0 | **B11-04DJCS** |
| 0.5…17 | **B11-04DJDS** |

**Special options**, add the appropriate letter

- **5 μm filter element** connection thread B...-0..G.. NPT made of SST, SA10MDSS, max. 12 bar for B11 B...-0..G.. non-relieving without relieving function B...-0..K SST spring cage for B548 B558-02D...

**Accessories, enclosed**

- **pressure gauge** Ø 40 mm, 0…10 bar, G¼ for B548 MS4002-..*2
- **mounting bracket** for B548 BW30-03S
- **mounting nut** for B548 M30x1,5S
- **mounting bracket** for B11 BW45-03S
- **mounting nut** for B11 M45x1,5S

**Order example:** **B548-02DHAS**

---

**Description**

Regulator of small, compact design, ideal for limited space conditions. Application examples are the chemistry, petroleum processing as well as food industry and medical technology.

- **Media:** compressed air, gases or liquids
- **Supply pressure:** max. 21 bar
- **Adjustment:** by plastic knob with snap-lock, optionally by T-handle at B558
- **Relieving function:** relieving, optionally non-relieving
- **Gauge port:** G¼ on both sides of the body, screw plugs supplied
- **Filter element:** 20 μm at B548, 40 μm at B11, made of polypropylene
- **Bowl:** stainless steel version without sight glass
- **Drainage:** manual drain as standard for max. 21 bar, optionally automatic drain for max. 12 bar
- **Temperature range:** 0 °C to 60 °C / 32 °F to 140 °F, max. 50 °C / 122 °F at automatic drain version
- **Body:** stainless steel 316, material no. 1.4401
- **Spring cage:** glass fibre-reinforced plastic at B11 and B548, stainless steel 316 / 1.4401 at B558
- **Elastomer:** FKM
- **Inner valve:** stainless steel 316, material no. 1.4401

---

**Media**

- Compressed air, gases or liquids

**Supply pressure**

- Max. 21 bar

**Adjustment**

- By plastic knob with snap-lock, optionally by T-handle at B558

**Relieving function**

- Relieving, optionally non-relieving

**Gauge port**

- G¼ on both sides of the body, screw plugs supplied

**Filter element**

- 20 μm at B548, 40 μm at B11, made of polypropylene

**Bowl**

- Stainless steel version without sight glass

**Drainage**

- Manual drain as standard for max. 21 bar, optionally automatic drain for max. 12 bar

**Temperature range**

- 0 °C to 60 °C / 32 °F to 140 °F, max. 50 °C / 122 °F at automatic drain version

**Body**

- Stainless steel 316, material no. 1.4401

**Spring cage**

- Glass fibre-reinforced plastic at B11 and B548, stainless steel 316 / 1.4401 at B558

**Elastomer**

- FKM

**Inner valve**

- Stainless steel 316, material no. 1.4401

---

**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Bowl</th>
<th>Flow</th>
<th>Supply</th>
<th>Connection</th>
<th>Pressure</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>l/min**</td>
<td>bar G</td>
<td>G bar</td>
<td></td>
</tr>
<tr>
<td><strong>Miniature filter pressure regulator</strong></td>
<td>manual drain, relieving, w/o gauge, 20 μm filter element</td>
<td><strong>B548-S</strong></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>40</td>
<td>156</td>
<td>95</td>
<td>0.04</td>
<td>27</td>
<td>450</td>
<td>21 G¼</td>
</tr>
<tr>
<td>0.2…1.8</td>
<td><strong>B548-02DHAS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.2…4.0</td>
<td><strong>B548-02DHBS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.3…9.0</td>
<td><strong>B548-02DHCS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **“Midi” filter pressure regulator** | manual drain, relieving, w/o gauge, 40 μm filter element | **B11-S** |
| 62 | 216 | 125 | 0.12 | 138 | 2300 | 21 G½ |
| 0.2…1.8 | **B11-04DJAS** |
| 0.2…4.0 | **B11-04DJBS** |
| 0.3…9.0 | **B11-04DJCS** |
| 0.5…17 | **B11-04DJDS** |

**Special options**, add the appropriate letter

- **5 μm filter element** connection thread B...-0..G.. NPT made of SST, SA10MDSS, max. 12 bar for B11 B...-0..G.. non-relieving without relieving function B...-0..K SST spring cage for B548 B558-02D...

**Accessories, enclosed**

- **Pressure gauge** Ø 40 mm, 0…10 bar, G¼ for B548 MS4002-..*2
- **Mounting bracket** for B548 BW30-03S
- **Mounting nut** for B548 M30x1,5S
- **Mounting bracket** for B11 BW45-03S
- **Mounting nut** for B11 M45x1,5S

---

**Extensions:** see chapter for PRL service units

**Gauges:** see chapter for measuring devices

**Spare parts:** see separate spare parts list

---

**Order example:** **B548-02DHAS**
## Description
Lubricator for compressed air with bowl without sight glass, extremely robust, with manual adjustment of oil drip rate.

## Bowl
Stainless steel version without sight glass

## Operating pressure
Max. 50 bar

## Temperature range
- 0 °C to 80 °C / 32 °F to 176 °F for NBR/Buna-N, 0 °C to 130 °C / 32 °F to 266 °F for high temperature version for appropriately conditioned air down to -20 °C / -4 °F, or low temperature version down to -40°C / -40 °F

## Material
- Body: stainless steel 316L, material no. 1.4404
- Bowl: stainless steel 316L, material no. 1.4404
- Elastomer: FKM
- Inner valve: stainless steel 316L, material no. 1.4404

### Dimensions

<table>
<thead>
<tr>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>Bowl Capacity</th>
<th>Flow Rate (l/min)</th>
<th>Operating Pressure (bar)</th>
<th>Connection Thread</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>124</td>
<td>80</td>
<td>0.04</td>
<td>45</td>
<td>750</td>
<td>50</td>
<td>G¼</td>
</tr>
<tr>
<td>64</td>
<td>173</td>
<td>129</td>
<td>0.15</td>
<td>54</td>
<td>900</td>
<td>50</td>
<td>G¼</td>
</tr>
<tr>
<td>79</td>
<td>175</td>
<td>130</td>
<td>0.21</td>
<td>144</td>
<td>2400</td>
<td>50</td>
<td>G½</td>
</tr>
<tr>
<td>89</td>
<td>206</td>
<td>168</td>
<td>0.58</td>
<td>480</td>
<td>8000</td>
<td>50</td>
<td>G¼</td>
</tr>
<tr>
<td>168</td>
<td>279</td>
<td>224</td>
<td>1.50</td>
<td>720</td>
<td>12000</td>
<td>50</td>
<td>G½</td>
</tr>
</tbody>
</table>

## Special options, add the appropriate letter or number

- **NPT** connection thread L3000-…N
- up to -40 °C / -40 °F low temperature version L3000-…X51
- up to 130 °C / 266 °F high temperature version L3000-…X54
- flange connection see end of the chapter / flanges L3000-…F.

** at 7 bar operating pressure and 0.33 bar pressure drop

### Extensions:
see chapter for FRL service units

---

G½ up to G2, max. 50 bar
-40 °C up to 130 °C

---

**Order example:** L3000-01
Filter Made of Stainless Steel Throughout, up to 50 bar

Description
Filter with bowl without sight glass completely made of stainless steel, extremely robust, suitable for compressed air, gases or liquids. Application examples are the chemistry, petroleum processing as well as food industry and medical technology.

Filter element
50 μm, optionally 5 μm, made of stainless steel stainless steel version without sight glass

Bowl
screw plug as standard, optionally manual drain (max. 30 bar) or automatic drain (max. 16 bar)

Drainage
max. 50 bar (without drain)

Temperature range
0 °C to 80 °C / 32 °F to 176 °F for FKM or EPDM
0 °C to 130 °C / 32 °F to 266 °F for high temperature version, for appropriately conditioned compressed air down to -20 °C / -4 °F, or low temperature version down to -40°C / -40 °F

Material
Body: stainless steel 316L, material no. 1.4404
Bowl: stainless steel 316L, material no. 1.4404
Elastomer: FKM, optionally EPDM
Inner valve: stainless steel 316L, material no. 1.4404

Dimensions

<table>
<thead>
<tr>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>Bowl capacity</th>
<th>Flow rate (l/min)</th>
<th>Operating pressure (bar)</th>
<th>Filter element (μm)</th>
<th>Connection (G)</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>40</td>
<td>92</td>
<td>80</td>
<td>0.04</td>
<td>45</td>
<td>750</td>
<td>0.04</td>
<td>G 1/4</td>
<td>F3000-01</td>
</tr>
<tr>
<td>64</td>
<td>139</td>
<td>125</td>
<td>0.15</td>
<td>54</td>
<td>900</td>
<td>0.15</td>
<td>G 1/4</td>
<td>F3000-A2</td>
</tr>
<tr>
<td>79</td>
<td>150</td>
<td>130</td>
<td>0.28</td>
<td>150</td>
<td>2500</td>
<td>0.28</td>
<td>G 1/2</td>
<td>F3000-03</td>
</tr>
<tr>
<td>89</td>
<td>191</td>
<td>165</td>
<td>0.58</td>
<td>432</td>
<td>7200</td>
<td>0.58</td>
<td>G 3/8</td>
<td>F3000-A6</td>
</tr>
<tr>
<td>180</td>
<td>298</td>
<td>216</td>
<td>1.00</td>
<td>900</td>
<td>15000</td>
<td>1.00</td>
<td>G 1</td>
<td>F3000-12</td>
</tr>
</tbody>
</table>

Special options, add the appropriate letter or number

NPT connection thread for G 1/4 (02) and G 1/4 (A6) F3000...G
for G 1/4 and G 1 F3000...G
for G 1/2 and G 2 F3000...G

up to -40 °C / -40 °F
low temperature version from G 1/4 (02) on F3000...X51

up to 130 °C / 266 °F
high temperature version from G 1/4 (02) on R3000...X54

manual drain max. 30 bar from G 1/4 (02) to G 2 F3000...H
automatic drain max. 16 bar for G 1/4 (02) to G 2 F3000...R

EPDM elastomer
nitrogen N2: 07 ammonia NH3: 02 carbon dioxide CO2: F3000...03
argon Ar: 05 helium He: 09 hydrogen H2: F3000...11
methane CH4: 13 oxygen O2: 15 propane C3H8: F3000...16
nitrous oxide N2O: 17 water H2O: F3000...W

flange connection see end of the chapter / flanges F3000...F.

Accessories, enclosed

mounting bracket for G 1/4 (02) and G 1/4 BW00-17S
for G 1/4 and G 1/4 (A6) BW00-18S
for G 1/2 (06) and G 1 BW00-19S

Order example: F3000-01

Extensions: see chapter for FRL service units
Spare parts: see separate spare parts list

G 1/4 up to G 2, max. 50 bar
-40 °C up to 130 °C

Versorgungsdruck max. 13 bar
G 1/8 up to G 2, max. 50 bar
-40 °C up to 130 °C

*1 at 7 bar operating pressure and 0.33 bar pressure drop

Flange connection see end of the chapter / flanges F3000...F.
Druckluft-Wartungseinheiten komplett aus Edelstahl, bis 50 bar  C3000

### Description
FRL service unit completely made of stainless steel. Application examples are the chemistry, petroleum processing as well as food industry and medical technology.

### Media
Compressed air, gases or liquids

### Supply pressure
Max. 50 bar at C3002, max. 30 bar at C3003, optionally max. 50 bar (all without drain)

### adjustment
By hexagon socket screw with locknut

### Relieving function
Relieving, optionally non-relieving

### Gauge port
G1⁄8 on both sides of the body, G1⁄4 at C3002-01, one screw plug supplied

### Filter element
50 μm, optionally 5 μm, made of stainless steel

### Bowl
Stainless steel version without sight glass

### Drainage
Screw plug as standard, optionally manual drain (max. 30 bar) or automatic drain (max. 16 bar)

### Temperature range
-20 °C to 60 °C / -4 °F to 140 °F for NBR/Buna-N, EPDM or FKM
-20 °C to 130 °C / -4 °F to 266 °F for high temperature version, or low temperature version down to -40 °C / -40 °F

### Material
Body / Bowl: stainless steel 316L, material no. 1.4404
Inlet valve: stainless steel 316L / 1.4404
Diagnostics: NBR/Buna-N with PTFE coating, optionally EPDM or FKM
O-rings: FKM, optionally EPDM

### Specifications
- **5 μm filter element**
  - for G1⁄4 and G3⁄8 C3003-04
  - for G1 C3003-05
  - for G1½ and G2 C3003-06

- **NPT**
  - connection thread C3003-07

- **0.2 ... 3 bar pressure range**
  - P1 max. 50 bar C3003-08

- **1.0 ... 15 bar pressure range**
  - manual drain max. 30 bar C3003-09
  - automatic drain max. 16 bar for G1½ up to G2 C3003-10

- **up to -40 °C / -40 °F**
  - low temperature version C3003-11

- **up to 130 °C / 266 °F**
  - high temperature version C3003-12

- **EPDM elastomer**
  - see end of the chapter / flanges C3003-13

### Accessories, enclosed
- **Mounting bracket**
  - for G1⁄4 (C3002) BW30-03S
  - for G1 (C3003) BW45-03S
  - for G1½ (C3002) BW45-03S
  - for G2 (C3003) BW50-05S

- **Mounting nut**
  - M30x1.5S
  - M45x1.5S
  - M50x1.5S

### Further details:
See chapter for single devices
Spare parts: see separate spare parts list

---

### Table 1: FRL unit, 2-part

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>FRL service unit consisting of</th>
<th>Flow rate m³/h*</th>
<th>Connection thread</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A mm</td>
<td>B mm</td>
<td>C mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>150</td>
<td>80</td>
<td>B+L300</td>
<td>C3002-01</td>
</tr>
<tr>
<td>138</td>
<td>240</td>
<td>125</td>
<td>33</td>
<td>C3002-02</td>
</tr>
<tr>
<td>138</td>
<td>240</td>
<td>125</td>
<td>51</td>
<td>C3002-03</td>
</tr>
<tr>
<td>168</td>
<td>250</td>
<td>130</td>
<td>57</td>
<td>C3002-04</td>
</tr>
<tr>
<td>188</td>
<td>307</td>
<td>165</td>
<td>138</td>
<td>C3002-05</td>
</tr>
<tr>
<td>188</td>
<td>307</td>
<td>165</td>
<td>542</td>
<td>C3002-06</td>
</tr>
<tr>
<td>188</td>
<td>307</td>
<td>165</td>
<td>350</td>
<td>C3002-07</td>
</tr>
</tbody>
</table>

### Table 2: FRL unit, 3-part

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>FRL service unit consisting of</th>
<th>Flow rate m³/h*</th>
<th>Connection thread</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A mm</td>
<td>B mm</td>
<td>C mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>212</td>
<td>167</td>
<td>129</td>
<td>F+R+L300</td>
<td>C3003-02</td>
</tr>
<tr>
<td>257</td>
<td>171</td>
<td>136</td>
<td>51</td>
<td>C3003-03</td>
</tr>
<tr>
<td>324</td>
<td>283</td>
<td>217</td>
<td>51</td>
<td>C3003-04</td>
</tr>
<tr>
<td>324</td>
<td>283</td>
<td>217</td>
<td>534</td>
<td>C3003-05</td>
</tr>
<tr>
<td>539</td>
<td>385</td>
<td>257</td>
<td>720</td>
<td>C3003-06</td>
</tr>
<tr>
<td>539</td>
<td>385</td>
<td>257</td>
<td>780</td>
<td>C3003-07</td>
</tr>
</tbody>
</table>

### Special options
Add the appropriate letter or number

- **90 150 80 B+L300**
- **138 240 125**
- **980,00**
- **138 240 125 51 850**
- **1.100,00**
- **138 240 125 57 950**
- **1.370,00**
- **168 250 130 138 2 300**
- **1.300,00**
- **188 307 165 342 5 700**
- **2.730,00**
- **212 167 129 F+R+L300**
- **51 850**
- **1.160,00**
- **257 171 136 138 2 300**
- **1.660,00**
- **324 283 217 342 5 700**
- **3.570,00**
- **324 283 217 350 6 000**
- **3.570,00**
- **539 385 257 720 12 000**
- **2.730,00**
- **539 385 257 780 13 000**
- **2.730,00**
- **539 385 257 720 12 000**
- **2.730,00**
- **6.930,00**

---

### Accessories, enclosed

- **Mounting bracket**
  - for G1⁄4 (C3002) BW30-03S
  - for G1 (C3003) BW45-03S
  - for G1½ (C3002) BW45-03S
  - for G2 (C3003) BW50-05S

- **Mounting nut**
  - M30x1.5S
  - M45x1.5S
  - M50x1.5S

---

Further details: See chapter for single devices
Spare parts: See separate spare parts list

---

* at 8 bar supply pressure, 6 bar outlet pressure and 1 bar pressure drop
Stainless Steel FRL Service Unit, Filter and Lubricator C10-S / F10-S / L10-S

Description: Compact FRL service unit, filter and lubricator made of stainless steel with high volume flow.

<table>
<thead>
<tr>
<th>Media</th>
<th>Compressed air or gases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply pressure</td>
<td>Max. 21 bar</td>
</tr>
<tr>
<td>Adjustment</td>
<td>By plastic knob with snap-lock</td>
</tr>
<tr>
<td>Relieving function</td>
<td>Relieving, optionally non-relieving</td>
</tr>
<tr>
<td>Gauge port</td>
<td>40 μm of polypropylene at C1, 40 μm, 20 μm and 5 μm of polypropylene and 0.3 μm of borosilicate</td>
</tr>
<tr>
<td>Filter element</td>
<td>Stainless steel version without sight glass, optionally with sight glass</td>
</tr>
<tr>
<td>Bowl</td>
<td>Manual drain as standard for max. 21 bar, optionally automatic drain for max. 12 bar</td>
</tr>
<tr>
<td>Temperature range</td>
<td>0 °C to 50 °C / 32 °F to 122 °F for automatic drain version</td>
</tr>
<tr>
<td>Material</td>
<td>Body: Stainless steel 316, material no. 1.4401</td>
</tr>
<tr>
<td></td>
<td>Bowl: Stainless steel 316, material no. 1.4401</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>Description</th>
<th>Flow rate m³/h</th>
<th>Filter element μm</th>
<th>Connection thread</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRL service unit</td>
<td>Supply pressure max. 21 bar, manual drain, relieving, with pressure gauge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>140</td>
<td>218</td>
<td>127</td>
<td>B11+L10</td>
<td>48</td>
<td>800</td>
<td>40</td>
<td>G½</td>
</tr>
<tr>
<td>220</td>
<td>162</td>
<td>127</td>
<td>F10+R10+L10</td>
<td>108</td>
<td>1800</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Filter**

| Supply pressure max. 21 bar, manual drain, bowl capacity 0.11 l |
|---|---|---|---|---|---|---|---|
| 40 | 108 | 94 | Polypropylene | 23 | 380 | 20 | G½ | F504-02DHS |
| | | | Polypropylene | 20 | 340 | 5 | F504-02DG5S |
| | | | Coalescing | 15 | 250 | 0.3 | F501-02DHS |
| 60 | 132 | 127 | Polypropylene | 114 | 1900 | 40 | G½ | F10-04DJS |
| | | | Polypropylene | 102 | 1700 | 5 | F10-04DG5S |
| | | | Coalescing | 58 | 960 | 0.3 | F11-04DJS |

**Lubricator**

| Supply pressure max. 21 bar, bowl capacity 0.11 l |
|---|---|---|---|---|---|---|---|
| 60 | 173 | 127 | 180 | 3000 | | G½ | L10-04DS |

**Special options**

- **Bowl with sight glass** max. 17 bar, up to 70 °C / 158 °C, for C1 and F1: .1 .-04 . . . W
- **NPT connection thread** for C1 and F1:  . . . . . . . N
- **Automatic drain** SA10MDSS, max. 12 bar, for C1 and F1: .1 .-04 . . . R

**Accessories**

- **Mounting bracket** for C1: BW45-03S, M45x1,5S
- **Mounting nut** for C1: BW45-03S

**Order example:** C11-04CJS

Further details: see chapter for single devices

Spare parts: see separate spare parts list
Flow Control Valve / Pinch Valve / 2-Port/2-Way Valve

Description
The flow control valve functions as a pinch valve in a new design of housing with full flow cross-section. Since the straight valve passage has neither constrictions nor back-points, there is no danger of clogging or blockage. Frictional loss is at a minimum.

Media
compressed air, gases, liquids or other paste-like or powdery media
Solids are enclosed by the flexible sleeve at shut-off.

Sleeve
Highly flexible with double woven reinforcement in eight different grades. Sleeve simple to change.

Pressures
Operating pressure: max. 4.0 bar
Pilot pressure: max. 6.5
Differential pressure: max. 2.5 bar
Closing pressure: P1 + 2.5 bar to DN32, P1 + 2 bar from DN40 on

Vacuum
If vacuum is greater than -100 mbar, vacuum compensation should be provided on the control side.

Accuracy
In the flow range of 0 to 70% the linearity of pilot pressure to flow is about 10% accurate.

Mounting position
any, at horizontal mounting pilot port preferably at the top

Temperature range
0 °C to max. 100 °C / 32 °F to max. 212 °F, subject to sleeve material

Material
Body: stainless steel 316L, material no. 1.4435
Sleeve: depending on selected version

Flow control valve
operating pressure max. 4 bar,
maximum 2.5 bar above operating pressure

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Nominal Chamber Control Operating Connection Order Preis</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Ø size</td>
<td>mm mm</td>
</tr>
<tr>
<td>70 26</td>
<td>6</td>
</tr>
<tr>
<td>80 38</td>
<td>10</td>
</tr>
<tr>
<td>95 44</td>
<td>15</td>
</tr>
<tr>
<td>110 55</td>
<td>20</td>
</tr>
<tr>
<td>125 60</td>
<td>25</td>
</tr>
<tr>
<td>140 73</td>
<td>32</td>
</tr>
<tr>
<td>150 83</td>
<td>40</td>
</tr>
<tr>
<td>185 90</td>
<td>50</td>
</tr>
</tbody>
</table>

Special options, add the appropriate letter

<table>
<thead>
<tr>
<th>Sleeve</th>
<th>Description</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>NR</td>
<td>natural rubber, black</td>
<td>80°C / 176 °F</td>
</tr>
<tr>
<td>NLR</td>
<td>rubber, suitable for food, black</td>
<td>70°C / 158 °F</td>
</tr>
<tr>
<td>NLRH</td>
<td>rubber, suitable for food, light</td>
<td>70°C / 158 °F</td>
</tr>
<tr>
<td>NBR</td>
<td>nitrile rubber/Buna-N, suitable for food</td>
<td>80°C / 176 °F</td>
</tr>
<tr>
<td>EPDM</td>
<td>ethylene-propylene rubber, suitable for food, black</td>
<td>100°C / 212 °F</td>
</tr>
<tr>
<td>FKM</td>
<td>fluorine rubber, black</td>
<td>not QE06</td>
</tr>
<tr>
<td>CR</td>
<td>chloroprene rubber/neoprene, black</td>
<td>not QE06</td>
</tr>
<tr>
<td>CSM</td>
<td>natural rubber, chlorosulphonylpolyethylene</td>
<td>not QE06</td>
</tr>
</tbody>
</table>

For further pinch valves made of POM or aluminium see chapter for special devices

Order example:
QE06-02NR

For further pinch valves made of POM or aluminium see chapter for special devices

PNF CAD www.aircom.net

Order example: QE06-02NR
## Mounting Flange

### Total device width
- Device width between inlet and outlet, see catalogue page, dimension A
- + 2x total length of flange fitting, dimension L
- - 2x screw-in depth of the device (on request)
- = total device width including flange

### DIN flange
- According to DIN 2635 at PN40, according to DIN 2637 at PN100

### ANSI flange
- Optionally according to ASME B16.5 (150 lbs), according to ASME B16.5 (300 lbs) on request

### Material
- Stainless steel, material number 1.4571

## Nominal pressure for device

<table>
<thead>
<tr>
<th>Nominal pressure max.</th>
<th>Connection size</th>
<th>Order number affix</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DN G affix</td>
<td></td>
</tr>
</tbody>
</table>

## Flange kit, DIN, completely assembled

**F**

### PN40
- BD and BM/40 F602 R119
  - 15 G½ F1
- CM/40 F3000/40 R3000
  - 20 G¾ F1
- C3000/40 L606 R3100/L
  - 25 G1 F1
- D3100/L LM/40 RZ/L
  - 32 G1¼ F1
- DB/L L3000/40 R160/L
  - 40 G1½ F1
- R120/40 FM/40
  - 50 G2 F1
  - 65 G2½ F1
  - 80 G3 F1

### PN100
- BM/100 FM LM/100
  - 15 G½ F1
- CM/100 F3000/100 L3000/100
  - 20 G¾ F1
- C3000/100 R120/100 R3000/100
  - 25 G1 F1
  - 32 G1¼ F1
  - 40 G1½ F1
  - 50 G2 F1
  - 65 G2½ F1

## Special options

### ANSI flange
- 150 lbs F2
- 300 lbs F3
- 600 lbs F4

### Flange kit, DIN, completely assembled

- Flange with normal fitting N
- Flange with long fitting L

### Special options

- Filter regulator PN fitting
  - BD BM 40/100 N
- CM 40/100 N
- F602 40/100 N
- FM 40/100 N
- F3000 40/100 N

- Lubricator PN fitting
  - LM L3000 40/100 N

- Booster PN fitting
  - R119-J R120-J R3000-J 40/100 N

- Low pressure regulator PN fitting
  - R3100 D3100 R160 DBC 40 L

- FRL service unit PN fitting
  - CM2 C3002 40/100 N
  - CM3 C3003 40/100 N

---

* N = normal fitting  L = long fitting

---

**Order example:**
F602-16WJF1
## Flange and Fitting Made of Stainless Steel

**Threaded flange** according to DIN 2566 (PN 16)

**Welding neck flange** according to DIN 2635 (PN 40), ANSI / ASME B16.5 (150 lbs), according to DIN 2637 (PN 100), ASME B16.5 (300 lbs), ASME B16.5 (600 lbs)

**Material** stainless steel 316TI, material number 1.4571

**Weld-on fitting** with conical Whitworth thread (BSPT) according to DIN 2999

**Material** stainless steel, material number 1.4571

### Dimensions

<table>
<thead>
<tr>
<th>d1/s</th>
<th>D</th>
<th>h</th>
<th>b</th>
<th>d1</th>
<th>f</th>
<th>k</th>
<th>d2</th>
<th>d3</th>
<th>thread size</th>
<th>Nominal size</th>
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**Welding neck flange as per DIN 2635 (PN40)**

<table>
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<tr>
<th>d1</th>
<th>d2</th>
<th>d3</th>
<th>h</th>
<th>b</th>
<th>f</th>
<th>k</th>
<th>Rp</th>
<th>DN</th>
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<td>21.3 x 2.0</td>
<td>95</td>
<td>36</td>
<td>16</td>
<td>45</td>
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<td>65</td>
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<td>26.9 x 2.3</td>
<td>105</td>
<td>40</td>
<td>18</td>
<td>58</td>
<td>2</td>
<td>75</td>
<td>14</td>
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<td>4 x M12</td>
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<tr>
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<td>115</td>
<td>40</td>
<td>18</td>
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<td>85</td>
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<tr>
<td>42.4 x 2.6</td>
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<td>42</td>
<td>18</td>
<td>78</td>
<td>2</td>
<td>100</td>
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<td>56</td>
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<tr>
<td>48.3 x 2.6</td>
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<td>45</td>
<td>18</td>
<td>88</td>
<td>3</td>
<td>110</td>
<td>18</td>
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<td>4 x M16</td>
</tr>
<tr>
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<td>48</td>
<td>20</td>
<td>102</td>
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<td>125</td>
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<tr>
<td>76.1 x 2.9</td>
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<td>52</td>
<td>22</td>
<td>122</td>
<td>3</td>
<td>145</td>
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<td>90</td>
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<td>58</td>
<td>24</td>
<td>138</td>
<td>3</td>
<td>160</td>
<td>18</td>
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<td>8 x M16</td>
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**Special options, add the appropriate letter or number**

- PN100 as per DIN 2637
- ANSI/ASME flange B16.5 150 lbs
- ANSI/ASME flange B16.5 300 lbs
- ANSI/ASME flange B16.5 600 lbs bis DN25

<table>
<thead>
<tr>
<th>PN</th>
<th>thread size</th>
<th>DN</th>
<th>Order number</th>
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<tr>
<td>300 lbs</td>
<td>600 lbs</td>
<td>VSV– -300 lbs</td>
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**Weld-on fitting as per DIN 2999 with conical Whitworth thread (BSPT)**

<table>
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<th>d1</th>
<th>d2</th>
<th>d3</th>
<th>h</th>
<th>b</th>
<th>f</th>
<th>k</th>
<th>Rp</th>
<th>Order number</th>
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<td>PN50</td>
<td>¼”</td>
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<td>VSA-02</td>
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<td>PN50</td>
<td>½”</td>
<td>15</td>
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<td>PN50</td>
<td>¾”</td>
<td>20</td>
<td>VSA-06</td>
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</tr>
<tr>
<td>33.7 x 3.25</td>
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<td>PN50</td>
<td>1”</td>
<td>25</td>
<td>VSA-08</td>
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<tr>
<td>42.4 x 3.25</td>
<td>50</td>
<td>PN40</td>
<td>1¼”</td>
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<td>VSA-10</td>
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<tr>
<td>48.3 x 3.25</td>
<td>50</td>
<td>PN40</td>
<td>1½”</td>
<td>40</td>
<td>VSA-12</td>
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<td>2”</td>
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<tr>
<td>76.1 x 3.65</td>
<td>60</td>
<td>PN25</td>
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<td>VSA-20</td>
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