# Chapter 3 - Low Pressure Regulators

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<th>Description</th>
<th>Pressure range</th>
<th>Connection thread</th>
<th>Device</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>factory-set outlet pressure</td>
<td>50 mbar</td>
<td>G¼, G½</td>
<td>R01</td>
<td>3.02</td>
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<tr>
<td>supply pressure max. 16 bar</td>
<td>25 ... 50 / 1400 mbar</td>
<td>G¼, G¾</td>
<td>R01-5/-6</td>
<td>3.03</td>
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<tr>
<td>supply pressure max. 10 bar</td>
<td>20 ... 150 / 500 mbar</td>
<td>G¼, G¾</td>
<td>R01-2/-3/-4</td>
<td>3.03</td>
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<tr>
<td>for oil</td>
<td>0 ... 2500 mbar</td>
<td>G¼, G¾</td>
<td>RL13</td>
<td>3.03</td>
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<tr>
<td>highly sensitive, supply pressure max. 0.4 bar</td>
<td>2 ... 16 / 100 mbar</td>
<td>G½ - G2</td>
<td>RGDJ</td>
<td>3.04</td>
</tr>
<tr>
<td>high precision, supply pressure max. 4 bar</td>
<td>5 ... 12 / 350 mbar</td>
<td>G½ - G⅓</td>
<td>RGB4</td>
<td>3.05</td>
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<tr>
<td>for many gases, supply pressure max. 20 bar</td>
<td>10 ... 18 / 4400 mbar</td>
<td>G1 - flange DN50</td>
<td>RZ</td>
<td>3.06</td>
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<tr>
<td>for gases, also for ammonia, supply max. 6 bar</td>
<td>5 ... 45 / 6000 mbar</td>
<td>G½ - G2</td>
<td>R160</td>
<td>3.07</td>
</tr>
<tr>
<td>for pure gases 5.0, very precise</td>
<td>5 ... 50 / 1500 mbar</td>
<td>G½</td>
<td>RR</td>
<td>3.08</td>
</tr>
<tr>
<td>relieving</td>
<td>2 ... 45 / 350 mbar</td>
<td>G¾ - G¾</td>
<td>R4100</td>
<td>3.09</td>
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<tr>
<td>extremely small</td>
<td>2.5 ... 9 / 30 mbar</td>
<td>G½ - G¾</td>
<td>R12</td>
<td>3.10</td>
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</table>
**Low Pressure Regulator with Factory-Set Outlet Pressure of 50 mbar**

**R01**

<table>
<thead>
<tr>
<th>Description</th>
<th>Low pressure regulator with factory-set outlet pressure of 50 mbar and an integrated safety valve, thus not for gas pressure regulation in closed rooms.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media</td>
<td>Compressed air, propane, butane or other non-corrosive gases</td>
</tr>
<tr>
<td>Supply pressure</td>
<td>max. 16 bar at R01-415, R01-310/-405/-406, max. 2.5 bar bei R01-319/-407/-604/-641</td>
</tr>
<tr>
<td>Accuracy</td>
<td>at max. supply pressure and flow: (&lt; 15% ) FS pressure deviation \at max. supply pressure without flow: (&lt; 25% ) FS pressure deviation</td>
</tr>
<tr>
<td>Air consumption</td>
<td>without constant bleed</td>
</tr>
<tr>
<td>Relieving function</td>
<td>non-relieving</td>
</tr>
<tr>
<td>Gauge port</td>
<td>G¼ on one side of the body, except on R01-319/-415</td>
</tr>
<tr>
<td>Mounting position</td>
<td>any</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20 °C to 60 °C / -4 °F to 140 °F</td>
</tr>
<tr>
<td>Material</td>
<td>Body: zinc die-cast, chrome-plated Inner valve: brass Elastomer: NBR/Buna-N</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Low pressure regulator</th>
<th>Flow rate</th>
<th>Supply pressure</th>
<th>Connection thread</th>
<th>Outlet pressure</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A mm</td>
<td>B mm</td>
<td>ØT mm</td>
<td>m³/h</td>
<td>l/min</td>
<td>max. bar</td>
<td>G</td>
</tr>
<tr>
<td>100</td>
<td>44</td>
<td>86</td>
<td>1.2</td>
<td>20</td>
<td>16</td>
<td>G¼</td>
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<td>138</td>
<td>92</td>
<td>118</td>
<td>3.0</td>
<td>50</td>
<td>2.5</td>
<td>G½</td>
</tr>
<tr>
<td>138</td>
<td>92</td>
<td>118</td>
<td>4.8</td>
<td>80</td>
<td>2.5</td>
<td>G½</td>
</tr>
<tr>
<td>138</td>
<td>117</td>
<td>118</td>
<td>9.6</td>
<td>160</td>
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<td>G½</td>
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<td>19.8</td>
<td>330</td>
<td>2.5</td>
<td>G½</td>
</tr>
<tr>
<td>138</td>
<td>92</td>
<td>118</td>
<td>3.0</td>
<td>50</td>
<td>16</td>
<td>G½</td>
</tr>
<tr>
<td>138</td>
<td>92</td>
<td>118</td>
<td>4.8</td>
<td>80</td>
<td>16</td>
<td>G½</td>
</tr>
</tbody>
</table>

**Accentory, enclosed**

**pressure gauge**

Ø 63 mm, 0...60 mbar, G¼ not for R01-310/-319/-415 MA6302-B6

**Gauges:** see chapter for measuring devices
### Low Pressure Regulator from 20 mbar, also for Oil R01 / RL13

**Description**
Hand-operated, spring-loaded low pressure regulator with diaphragm and integrated safety valve, thus not suitable for gas pressure regulation in closed rooms.

**Media**
compressed air, propane, butane or other non-corrosive gases as well as oil

**Supply pressure**
max. 16 bar at R01-5/-6, max. 10 bar at R01-2/-3/-4 and RL13-5, max. 6 bar at RL13-0

**Accuracy**
at min. supply pressure and flow: < 5% FS pressure deviation
at max. supply pressure and flow: < 15% FS pressure deviation
at max. supply pressure without flow: < 25% FS pressure deviation

**Air consumption**
without constant bleed

**Mounting position**
any

**Adjustment**
RL13-0: no individual settings
R01-5/-6: by adjusting knob and dial enabling eleven settings for different outlet pressures
R01-2/-3/-4: by T-handle with locknut

**Relieving function**
non-relieving

**Gauge port**
G½ on one side of the body, except on R01-5/-6 and RL13-0
20 °C to 60 °C / -4 °F to 140 °F

**Material**
Body: zinc die-cast Elastomer: NBR/Buna-N Inner valve: brass

### Low pressure regulator

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Flow rate</th>
<th>Supply pressure</th>
<th>Connection thread</th>
<th>Pressure range</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A mm B mm ØT mm</td>
<td>i/min</td>
<td>recommended G</td>
<td>mbar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>68</td>
<td>68</td>
<td>13</td>
<td>2.5</td>
<td>G¼</td>
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<td>100</td>
<td>68</td>
<td>68</td>
<td>7</td>
<td>6.0</td>
<td>G¼</td>
</tr>
<tr>
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<td>26</td>
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<td>G½</td>
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<td>68</td>
<td>50</td>
<td>2.5</td>
<td>G¼</td>
</tr>
<tr>
<td>100</td>
<td>68</td>
<td>68</td>
<td>7</td>
<td>2.5</td>
<td>G¾</td>
</tr>
<tr>
<td>103</td>
<td>50</td>
<td>83</td>
<td>40</td>
<td>6.0</td>
<td>G¾*</td>
</tr>
<tr>
<td>103</td>
<td>50</td>
<td>83</td>
<td>140</td>
<td>6.0</td>
<td>G¾*</td>
</tr>
</tbody>
</table>

### Low pressure regulator

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Flow rate</th>
<th>Supply pressure</th>
<th>Connection thread</th>
<th>Pressure range</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A mm B mm ØT mm</td>
<td>i/min</td>
<td>recommended G</td>
<td>mbar</td>
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<td></td>
</tr>
<tr>
<td>138</td>
<td>127</td>
<td>117</td>
<td>140</td>
<td>2.5</td>
<td>G½</td>
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<tr>
<td>138</td>
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<td>G½</td>
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<tr>
<td>160</td>
<td>136</td>
<td>145</td>
<td>280</td>
<td>2.5</td>
<td>G¾*</td>
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</table>

### Oil pressure regulator

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Flow rate</th>
<th>Supply pressure</th>
<th>Connection thread</th>
<th>Pressure range</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A mm B mm ØT mm</td>
<td>i/min</td>
<td>recommended G</td>
<td>mbar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>32</td>
<td>59</td>
<td>0.3</td>
<td>max. 6</td>
<td>G¼</td>
</tr>
<tr>
<td>65</td>
<td>70</td>
<td>68</td>
<td>3.0</td>
<td>max. 10</td>
<td>G¾*</td>
</tr>
</tbody>
</table>

### Accessories, enclosed

- **pressure gauge**
  - Ø 50 mm, 0...4 bar,
  - Ø 63 mm, 0...250 mbar,
  - Ø 63 mm, 0...0.6 bar,

- **Gauges:** see chapter for measuring devices

**Order example:** R01-524-00

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*1 G¼ on the input side  *2 G¾ on the input side
**Low Pressure Regulator, Supply Pressure max. 400 mbar**  
**RGDJ**

### Description
Highly sensitive low pressure regulator with inlet pressure compensation for high precision regulation. Zero shut-off prevents outlet pressure from increasing.

### Media
compressed air or non-corrosive gases

### Supply pressure
max. 400 mbar

### Air consumption
without constant bleed

### Adjustment
manual by turning the spindle under the cover of the spring cage

### Relieving function
non-relieving

### Accuracy
at maximum volume flow: \( < 20\% \) FS pressure deviation

### Gauge port
none as standard, optionally gauge port G½ on one side from size G¾ on

### Mounting position
any

### Temperature range
-20 °C to 70 °C / -4 °F to 158 °F

### Material
- Body: aluminium
- Inner valve: aluminium and plastic
- Elastomer: NBR/Buna-N

### Low pressure regulator

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Nominal</th>
<th>Kv</th>
<th>Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (mm)</td>
<td>B (mm)</td>
<td>C (mm)</td>
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<td>166</td>
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<td>40</td>
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<tr>
<td>234</td>
<td>219</td>
<td>52</td>
<td>50</td>
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</table>

### Special options, add the appropriate letter
**connection thread G¼** for pressure gauge **not for G½**

### Accessories, enclosed
**pressure gauge** Ø 63 mm, 0...60 mbar, G¼ from G¾

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**Gauges: see chapter for measuring devices**

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*1 at 350 mbar supply pressure and 100 mbar outlet pressure

*2 \( B6 = 0...60 \) mbar, \( C2 = 0...160 \) mbar

*3 \( Δp = P_1 - P_2 \), difference between supply and outlet pressure
**Low Pressure Regulator, Supply Pressure max. 4 bar**

**Description**
Highly sensitive low pressure regulator with inlet pressure compensation for high precision regulation. Zero shut-off prevents outlet pressure from increasing.

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

**Supply Pressure**
max. 4 bar

**Air Consumption**
without constant bleed

**Adjustment**
manual by turning the spindle under the cover of the spring cage

**Relieving Function**
non-relieving

**Accuracy**
max. 20% pressure drop at full flow

**Gauge Port**
one as standard, optionally gauge port G½ on one side at G½ and G1,

**Mounting Position**
any

**Temperature Range**
-15 °C to 60 °C / 5 °F to 140 °F

**Material**
Body: aluminium
Inner valve: aluminium and plastic
Elastomer: NBR/Buna-N

---

### Dimensions

<table>
<thead>
<tr>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>Nominal Size (DN)</th>
<th>Kv-Value (m³/h)</th>
<th>Flow Rate [l/min]</th>
<th>Connection Thread</th>
<th>Pressure Range [mbar]</th>
<th>Order Number</th>
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<tbody>
<tr>
<td>132</td>
<td>174</td>
<td>24</td>
<td>15</td>
<td>0.62</td>
<td>42</td>
<td>700</td>
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<td>RGB4-04L</td>
</tr>
</tbody>
</table>

| 190    | 230    | 33     | 25                | 2.5            | 168              | 2800              | G1                   | RGB4-08A     |
|        |        |        |                   |                |                  |                   |                      | RGB4-08C     |
|        |        |        |                   |                |                  |                   |                      | RGB4-08D     |
|        |        |        |                   |                |                  |                   |                      | RGB4-08E     |
|        |        |        |                   |                |                  |                   |                      | RGB4-08F     |
|        |        |        |                   |                |                  |                   |                      | RGB4-08G     |
|        |        |        |                   |                |                  |                   |                      | RGB4-08H     |
|        |        |        |                   |                |                  |                   |                      | RGB4-08I     |
|        |        |        |                   |                |                  |                   |                      | RGB4-08K     |
|        |        |        |                   |                |                  |                   |                      | RGB4-08L     |

| 190    | 265    | 55     | 40                | 5              | 336              | 5600              | G1½                  | RGB4-12A     |
|        |        |        |                   |                |                  |                   |                      | RGB4-12C     |
|        |        |        |                   |                |                  |                   |                      | RGB4-12D     |
|        |        |        |                   |                |                  |                   |                      | RGB4-12E     |
|        |        |        |                   |                |                  |                   |                      | RGB4-12F     |
|        |        |        |                   |                |                  |                   |                      | RGB4-12G     |
|        |        |        |                   |                |                  |                   |                      | RGB4-12H     |
|        |        |        |                   |                |                  |                   |                      | RGB4-12I     |
|        |        |        |                   |                |                  |                   |                      | RGB4-12K     |
|        |        |        |                   |                |                  |                   |                      | RGB4-12L     |

**Special Options:**
- Add the appropriate letter
  - Connection thread G½ for pressure gauge
  - For G½ and G1, RGB4-… M

**Cross Section**
- G½ up to G1½
- 5...12/350 mbar

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**Zubehör, lose beigelegt**

**Pressure Gauge**
Ø 63 mm, 0...160 mbar, G½

**Gauges:** see chapter for measuring devices

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**Adjustment Diagram**

**Description:**

- **ΔP**: Pressure difference
- **Q**: Flow rate
- **P1**: Supply pressure
- **P2**: Outlet pressure

Inlet: 
Outlet: 

**Order Example:** RGB4-04A
Low Pressure Regulator, Supply Pressure max. 20 bar

**Description**
Highly sensitive diaphragm pressure regulator.

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

**Supply pressure**
Max. 20 bar depending on the accuracy range. AR: the smaller P1, the higher the accuracy.
Max. 10 bar at pressure range < 120 mbar

**Accuracy**
At maximum volume flow, < 1% FS pressure deviation

**Air consumption**
Without constant bleed

**Adjustment**
Manual by turning the spindle under the cover of the spring cage

**Relieving function**
Relieving, optionally non-relieving

**Relief capacity**
Can be adjusted independently of outlet pressure. On non-relieving designs: blocked exhaust valve.

**Gauge port**
Not available

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

**Material**
Body: SG cast iron GGG50, GGG40 at G2
Elastomer: NBR/Buna-N, optionally FKM
Spring cage: aluminium
Inner valve: brass and stainless steel

---

### Low pressure regulator with spring

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Accuracy</th>
<th>Nominal Size</th>
<th>Flow Rate</th>
<th>Supply Pressure</th>
<th>Connection</th>
<th>Relief</th>
<th>Bestell-Nummer</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>DN</td>
<td>l/min</td>
<td>mm</td>
<td>Flange</td>
<td>G1</td>
</tr>
<tr>
<td>185</td>
<td>245</td>
<td>30</td>
<td>10</td>
<td>17</td>
<td>1800</td>
<td>10</td>
<td>G1</td>
</tr>
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<td>RZ-08A</td>
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<td>254</td>
<td>460</td>
<td>80</td>
<td>5</td>
<td>22</td>
<td>15000</td>
<td>10</td>
<td>flange DN50</td>
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<td>RZ-16AF</td>
</tr>
</tbody>
</table>

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### Special options

- **Further ranges**
  - RZ3-08/12 700…1100 I 1100…2000 J 2000…3000 K
  - RZ3-16 1050…2300 L 2000…4400 M
- **Relieving**
  - Adjustable: RZ-…R
  - Fixed: RZ-…V
- **FKM elastomer**
  - RZ-…F
- **Flange connection**
  - See chapter for SST devices / flanges

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**Order example:**
RZ1-08A

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**Notes:**
*1 at 4 bar supply pressure and max. outlet pressure
*2 see description above
*3 G1 thread at inlet
Low Pressure Regulator, Supply Pressure max. 6 bar

**Description**

Low pressure regulator with large diaphragm for good accuracy and high sensitivity.

**Media**

compressed air or non-corrosive gases

**Supply pressure**

max. 6 bar

**Air consumption**

without constant bleed

**Adjustment**

R160-04: by handwheel with locknut

R160-08/-12/-16: by hexagon head screw with locknut

**Relieving function**

non-relieving

**Gauge port**

G¾ on both sides of the body, screw plug supplied

**Mounting position**

any

**Temperature range**

-20 °C to 60 °C / -4 °F to 140 °F

**Material**

Body: aluminium coated

Diaphragm: NBR/Buna-N with PTFE coating

Spring cage: stainless steel

**Kv-value**

(m³/h) / m³/h² / l/min

**Flow rate**

(m³/h) / m³/h² / l/min

**Connection thread**

G

**Pressure range**

bar

**Order number**


<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Kv-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></td>
<td></td>
<td>R160</td>
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<td>128</td>
<td>5.7</td>
<td>480</td>
<td>8000</td>
</tr>
<tr>
<td>215</td>
<td>472</td>
<td>128</td>
<td>5.7</td>
<td>480</td>
<td>8000</td>
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</tbody>
</table>

**Special options**

Add the appropriate letter

- **NPT**
  - connection thread
  - for G1 to G2
  - R160-...N

- **SST inner parts**
  - for ammonia NH₃
  - for G½ and G1
  - R160-1...02

- **FKM o-ring**
  - PTFE diaphragm
  - R160-...T

- **EPDM o-ring**
  - R160-...TE

- **nitrogen N₂:**
  - 07 carbon dioxide CO₂: 03 argon Ar:
  - R160-...05

- **helium He:**
  - 09 hydrogen H₂: 11 methane CH₄:
  - R160-...13

- **domestic gas:**
  - 14 oxygen O₂: 15 propane C₃H₈:
  - R160-...17

- **flange connection**
  - see chapter for SST devices / flange
  - R160-...F.

**Accessories, enclosed**

- **pressure gauges**
  - Ø 63 mm, 0...80 mbar, G½, capsule type, connection parts required
  - MA6302...

- **connection parts**
  - for pressure gauge
  - for G½
  - AM-01

- **mounting bracket**
  - made of stainless steel
  - BW00-26S

**Gauges:** see chapter for measuring devices
Precision Low Pressure Regulator for Pure Gases

**Description**
- Precision regulator in mbar range without auxiliary power.
- Accurate and reliable regulation with large diaphragm for high sensitivity.
- Compressed air or non-corrosive gases up to 5.0 purity (99.999% vol.)

**Media**
- Compressed air or non-corrosive gases up to 5.0 purity (99.999% vol.)

**Supply pressure**
- Max. 20 bar

**Air consumption**
- Without constant bleed

**Adjustment**
- By handwheel with locknut

**Relieving function**
- Non-relieving

**Gauge port**
- G½ on the bottom side of the body, screw plug supplied

**Mounting position**
- Any

**Temperature range**
- -20 °C to 70 °C / -4 °F to 158 °F for CO₂ up to 40 °C / 104 °F

**Material**
- Body: Grey-coated brass
- Diaphragm: EPDM with PTFE coating
- O-rings: NBR/Buna-N
- Inner valve: brass

**Dimensions**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Flow rate</th>
<th>Connection thread</th>
<th>Pressure range</th>
<th>Order number</th>
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<tbody>
<tr>
<td>164</td>
<td>156</td>
<td>41</td>
<td>5</td>
<td>G½</td>
<td>5...50 mbar</td>
<td>RR-04A</td>
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<tr>
<td>12</td>
<td>200</td>
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<td>10</td>
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<td>10...100 mbar</td>
<td>RR-04B</td>
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<td>30</td>
<td>500</td>
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<td>50</td>
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<td>50...500 mbar</td>
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<td>45</td>
<td>750</td>
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<td>0.1</td>
<td></td>
<td>0.1...1 bar</td>
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<td>51</td>
<td>850</td>
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<td>0.2</td>
<td></td>
<td>0.2...1.5 bar</td>
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</table>

**Special options**, add the appropriate letter
- Free of grease and oil suitable for oxygen and flammable gases RR...L
- Pressure gauge Ø 100 mm, 0...bar, handwheel at the bottom RR...G

**Accessories**, enclosed
- Mounting bracket made of steel for RR-04 SA-RR04

**Description**
- Precision regulator in mbar range without auxiliary power.
- Accurate and reliable regulation with large diaphragm for high sensitivity.
- Compressed air or non-corrosive gases up to 5.0 purity (99.999% vol.)

**Media**
- Compressed air or non-corrosive gases up to 5.0 purity (99.999% vol.)

**Supply pressure**
- Max. 20 bar

**Air consumption**
- Without constant bleed

**Adjustment**
- By handwheel with locknut

**Relieving function**
- Non-relieving

**Gauge port**
- G½ on the bottom side of the body, screw plug supplied

**Mounting position**
- Any

**Temperature range**
- -20 °C to 70 °C / -4 °F to 158 °F for CO₂ up to 40 °C / 104 °F

**Material**
- Body: Grey-coated brass
- Diaphragm: EPDM with PTFE coating
- O-rings: NBR/Buna-N
- Inner valve: brass

**Order example:**
- RR-04A

**Gauge port**, G½ 5...50/1500 mbar

**Accessories**, enclosed
- Mounting bracket made of steel for RR-04 SA-RR04

**Graphs**
- Outlet pressure vs. supply pressure for different flow rates and pressures

**Notes**
- *1 at 6 bar supply pressure and open outlet
### Description
High precision diaphragm pressure regulator with high flow.

### Media
compressed air or non-corrosive gases

### Supply pressure
max. 10 bar

### Accuracy
sensitivity < 2 mbar

### Air consumption
without constant bleed

### Adjustment
by handwheel with locknut

### Relieving function
relieving

### Gauge port
G3⁄4 on both sides of the body, screw plug supplied

### Mounting position
any

### Temperature range
-2°C to 90°C / -32°F to 194°F, for appropriately conditioned compressed air down to -40°C / -40°F

### Material
- Body: aluminium die-cast
- Elastomer: NBR/Buna-N
- Inner valve: stainless steel, brass, aluminium and steel

---

### Dimensions

<table>
<thead>
<tr>
<th>A</th>
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<th>Dimensions (mm)</th>
<th>Kv-Value</th>
<th>Flow Rate (m³/h)</th>
<th>Connection Thread</th>
<th>Pressure Range (bar)</th>
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<td>219</td>
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<td>500</td>
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<td>2…45</td>
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<td></td>
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<td></td>
<td></td>
<td>2…95</td>
<td>R4100-03B</td>
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<td>R4100-03C</td>
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<td>5…350</td>
<td>R4100-03D</td>
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<td>5…350</td>
<td>R4100-06D</td>
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</tbody>
</table>

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### Special options, add the appropriate letter

- **NPT** connection thread
- **tapped exhaust** connection thread G3⁄4
- **tamper-proof cap** made of aluminium, adjustment by screwdriver, height 295 mm
- **FKM elastomer**
- **flange connection** see chapter SST devices / flanges

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### Accessories, enclosed

- **pressure gauge** Ø 63 mm, 0…**2** mbar, G3⁄4
- **mounting bracket** made of steel

---

**Accessories, enclosed**

- **BW00**

---

**Order example:**

- **BW00-47**
- **Gauges:** see chapter for measuring devices

### PDF/CAD

www.arcom.net
Miniature Low Pressure Regulator from 2.5 mbar

**Description**
Miniature diaphragm low pressure regulator for extremely low outlet pressures. Maintenance-free.

**Media**
compressed air, natural gas, town gas or liquid gas without certificate

**Supply pressure**
max. 100 mbar

**Adjustment**
After removal of the cap the desired outlet pressure may be set by an adjusting screw.

**Relieving function**
non-relieving

**Gauge port**
not available

**Mounting position**
any

**Temperature range**
-15 °C to 80 °C / 5 °F to 176 °F

**Material**
Body: aluminium die-cast
Inner valve: steel and aluminium
Elastomer: NBR/Buna-N

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<th>Nominal size</th>
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<th>Supply pressure</th>
<th>Connection thread</th>
<th>Pressure range mbar</th>
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<td>C</td>
<td>DN</td>
<td>l/min*</td>
<td>max. mbar</td>
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<td></td>
<td></td>
<td></td>
<td>10...30</td>
<td>R12-02E</td>
</tr>
</tbody>
</table>

**Accessory, enclosed**

- **pre-pressure regulator**
  see R900

**Order example:**
R12-01A

**Graph:**

- **R12-01D / -02D**

*At 100 mbar supply pressure and 10 mbar outlet pressure.*