**Line regulator LM52^exact^-2**

**Specifications**
- SPECTROLAB-components guarantee maximum quality by using high grade materials and a quality assurance program acc. to ISO 9001.
- All parts in the gas wetted surface area are cleaned in an ultrasonic cleaning system (CFC-free) with the special Cleaning process SPECTRO-CLEAN® and then baked out.
- SPECTROLAB-components undergo a 100% function- and Helium-leak-test.

**Product features**
- Brass (chrome plated) line pressure regulator
- Extremely stable outlet pressure by applied extremely accurate Technology "exact" and anti-vibration device
- For non-corrosive gases and gas mixtures up to quality 6.0
- 2 ports for flexible and individual configuration
- Suitable for inlet pressures up to 300 bar
- Max. outlet pressures 1.5 up to 20 bar
- Light weight
- Compact design
- Metal-to-metal seal to atmosphere
- Suitable for ECD-applications
- Pressure regulator can be evacuated
- Central filter
- Approved for use with oxygen
- Simple outlet pressure limitation by handwheel
- Easy to install
- New laboratory-style design
- Ergonomically designed

**exact = extremely accurate technology**

**Technical data**

<table>
<thead>
<tr>
<th>Type</th>
<th>single-stage EXACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet pressure $P_1$</td>
<td>max. 300 bar</td>
</tr>
<tr>
<td>Outlet pressure $P_2$</td>
<td>1.5 / 4 / 10 / 20 bar</td>
</tr>
</tbody>
</table>

**Materials**
- Body regulator: chrome plated brass
- Valve seat: PA
- Diaphragm: Hastelloy C276
- Soft goods: EPDM
- Filter: Sintered SS 316L

<table>
<thead>
<tr>
<th>In- and outlets</th>
<th>1/4&quot; NPT female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-30°C to +60°C</td>
</tr>
<tr>
<td>Leak rate (to atmosphere)</td>
<td>1x10^-6 mbar l/s He</td>
</tr>
<tr>
<td>(via seat)</td>
<td>1x10^-6 mbar l/s He</td>
</tr>
<tr>
<td>Flow capacity</td>
<td>$C_r=0.16$</td>
</tr>
<tr>
<td>Weight</td>
<td>1.0 kg</td>
</tr>
</tbody>
</table>

**Dimensions**

- LM52^exact^-2

**Side view**

<table>
<thead>
<tr>
<th>50</th>
<th>ca. 119</th>
</tr>
</thead>
</table>

Data sheet DES LM52-2 Edition 0217
Subject to alteration without prior notice
© Spectron Gas Control Systems GmbH
Line regulator LM52<sup>exact</sup>-2

**In- / outlets**

- **CM 1/4 - 1/8” / 1/4“ / 1/2” - OD compression fitting (brass)**
- **CM 6 - 3/8“ / 3/4“ / 1“ / 1 1/2“ compression fitting (brass)**
- **CE 1/4 - 1/8” / 1/4“ / 1/2” - OD compression fitting (stainless steel)**
- **CE 6 - 3/8“ / 3/4“ / 1“ / 1 1/2“ compression fitting (stainless steel)**
- **0 - 1/4”-NPT-F (port only)**

**Outlet pressure P<sub>2</sub>**

- 1.5 - to 1.5 bar
- 4 - to 4 bar
- 10 - to 10 bar
- 20 - to 20 bar

**Inlet pressure P<sub>1</sub>**

- 100 - max. 100 bar
- 200 - max. 200 bar
- 300 - max. 300 bar

**Ordering example:**

LM52-2-300-10-CE6-CE6-N2

For inlet pressure up to 50 bar and outlet pressure of max. 1.5 or 4 bar please use M51