Line regulator LM52\textsuperscript{exact}-6

**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\textsuperscript{®} 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
- 6 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, relief valve: chrome plated brass
- Valve seat: PA
- Diaphragm: Hastelloy C276
- Soft goods: EPDM
- Filter: Sintered SS 316L

**In- and outlets**
- 1/4” NPT female

**Temperature range**
- -30°C to +60°C

**Leak rate**
- (to atmosphere) $1\times10^{-6}$ mbar l/s He
- (via seat) $1\times10^{-6}$ mbar l/s He

**Pressure gauge**
- Safety pressure gauges ISO5171/Kl1.6/NG50

**Flow capacity**
- $C_r=0.16$

**Weight**
- 1.1 kg

**Dimensions**

- LM52\textsuperscript{exact}-6

**Side view**

- Dimensions: 110 x 110 x 23.5 mm
- Weight: 1.1 kg

---

Data sheet DES LM52-6 Edition 0217
Subject to alteration without prior notice
© Spectron Gas Control Systems GmbH
Spectron Gas Control Systems GmbH
Fritz-Klatte-Str. 8, D-65933 Frankfurt
Tel.: +49 (0)69 38016-0, Fax: +49 (0)69 38016-200
info@spectron.de www.spectron.de
Line regulator LM52<sup>exact</sup>-6

Ordering information:
Line regulator LM52<sup>exact</sup>-6

**In- / outlets**

- **CM** [1/4"] - 1/4", 1/2", OD compression fitting (brass)
- **CM** [6"] - 3", 6", 10", 14", mm compression fitting (brass)
- **CE** [1/4"] - 1/4", 1/2", OD compression fitting (stainless steel)
- **CE** [6"] - 3", 6", 10", 14", mm compression fitting (stainless steel)
- **B** - plug
- **A** - relief valve - 1/4"-NPT-F
- **K** - contact gauge
- **M** - pressure gauge
- **0** - 1/4"-NPT-F (port only)

**Inlet left:** **L**
**LM52 - 6 - L - 300 - 20 - 1 - 2 - 3 - 4 - 5 - 6 - N2**

**Inlet pressure P<sub>1</sub>**
- 100 - max. 100 bar
- 200 - max. 200 bar
- 300 - max. 300 bar

**Outlet pressure P<sub>2</sub>**
- 1.5 - to 1.5 bar
- 4 - to 4 bar
- 10 - to 10 bar
- 20 - to 20 bar

**Type of gas**
Please specify type of gas (for selection of valve seat materials)

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

**Ordering example:**
LM52-6-L-20-10-CE6-M-M-CE6-A-B-N2

**Ordering example:**
LM52-6-R-200-10-0-M-M-CE1/8-A-B-Ar