**Line regulator LM52\textsuperscript{exact}-4**

**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.

### 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) (via seat)
- $1 \times 10^{-6}$ mbar l/s He

### Pressure gauge
- Safety pressure gauges ISO5171/KI1.6/NG50

### Flow capacity
- $C_v=0.16$

### Weight
- 1.0 kg

**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
- 4 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**

**Dimensions Side view**

**Line regulator LM52\textsuperscript{exact}-4**

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© 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 LM52exact-4

Ordering information:
Line regulator LM52exact-4

In- / outlets
CM 1/4 - 1/8" / 1/4" / 1/2" - OD compression fitting (brass)
CM 6 - 3/8" / 3/8" / 1/2" compression fitting (brass)
CE 1/4 - 1/8" / 1/4" / 1/2" - OD compression fitting (stainless steel)
CE 6 - 3/8" / 3/8" / 1/2" 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)

Port selection

Inlet pressure P₁
100 - max. 100 bar
200 - max. 200 bar
300 - max. 300 bar

Outlet pressure P₂
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:
LM52-4-300-10-CE6-M-CE6-B-N2