

# Line regulator LM52<sup>exact</sup>-2

spectro lab



Line regulator LM52<sup>exact</sup>-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<sup>®</sup> 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

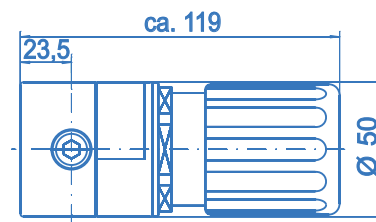
## Technical data

<b>Type</b>	single-stage EXACT
<b>Inlet pressure P<sub>1</sub></b>	max. 300 bar
<b>Outlet pressure P<sub>2</sub></b>	1.5 / 4 / 10 / 20 bar
<b>Materials</b>	
Body regulator:	chrome plated brass
Valve seat:	PA
Diaphragm:	Hastelloy C276
Soft goods:	EPDM
Filter:	Sintered SS 316L
<b>In- and outlets</b>	1/4" NPT female
<b>Temperature range</b>	-30°C to +60°C
<b>Leak rate (to atmosphere)</b>	1x10 <sup>-8</sup> mbar l/s He
(via seat)	1x10 <sup>-6</sup> mbar l/s He
<b>Flow capacity</b>	C <sub>v</sub> =0.16
<b>Weight</b>	1.0 kg

Dimensions  
LM52<sup>exact</sup>-2



Side view



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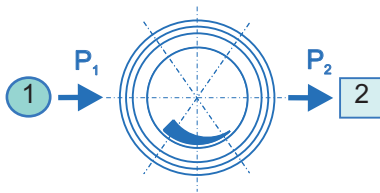
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## Ordering information:

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### In- / outlets

CM 1/4 - 1/8"/1/4"/1/2" - OD compression fitting (brass)  
 CM 6 - 3/6/8/10/12 mm compression fitting (brass)  
 CE 1/4 - 1/8"/1/4"/1/2" - OD compression fitting (stainless steel)  
 CE 6 - 3/6/8/10/12 mm compression fitting (stainless steel)  
 0 - 1/4"-NPT-F (port only)



port selection

LM52 - 2 - 300 - 10 - 1 - 2 - 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:

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

