Product features

- Stainless steel cylinder pressure regulator
- Pressure regulator with very stable outlet pressure and anti-vibration device
- Suitable for corrosive, toxic gases and gas mixtures with corrosive components 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 200 bar *
- Metal-to-metal seal to atmosphere
- Suitable for ECD-applications
- Pressure regulator can be evacuated
- Inlet filter
- Approved for use with oxygen
- Simple outlet pressure limitation by handwheel
- Easy to install
- New laboratory-style design
- Ergonomically designed

* 1.5 / 4 bar only for inlet pressure ≤ 50 bar

Specifications

- SPECTROCEM-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.
- SPECTROCEM-components undergo a 100% function- and Helium-leak-test.

Technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>single-stage</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 bar ((P_1) ≤ 50 bar)</td>
</tr>
<tr>
<td></td>
<td>10 / 20 / 50 / 100 / 200 bar ((P_1) &gt; 50 bar)</td>
</tr>
</tbody>
</table>

Materials

- Body regulator, relief valve: SS 316L (SS 1.4404)
- Valve seat: PVDF
- Diaphragm: Hastelloy C276
- Filter: Sintered SS 316L

In- and outlets

- 1/4” NPT-F

Temperature range

- -30°C to +60°C

Leak rate

- (to atmosphere) 1x10^-8 mbar l/s He
- (via seat) 1x10^-8 mbar l/s He

Pressure gauge

- Safety pressure gauges ISO5171/Kl1.6/NG50

Flow capacity

- \(C_v=0.15\)

Weight

- 1.2 kg

Dimensions

<table>
<thead>
<tr>
<th>FE51</th>
<th>Side view</th>
</tr>
</thead>
<tbody>
<tr>
<td>153</td>
<td>approx. 119</td>
</tr>
<tr>
<td>134</td>
<td>23.5</td>
</tr>
<tr>
<td>104</td>
<td>Ø 50</td>
</tr>
</tbody>
</table>

Subject to alteration without prior notice
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Ordering information:
Cylinder regulator FE51

Inlet / outlets
- OD compression fitting (stainless steel)
- OD compression fitting (stainless steel)
- plug
- relief valve - 1/4"-NPT-F (P ≤100 bar)
- detailed specification of cylinder connection including the relevant standard and number (e.g. BS no.3 for nitrogen up to 230 bar)
- contact pressure gauge
- pressure gauge
- 1/4"-NPT-F (port only)

Inlet left: L
FE51 - L - 300 - 20 - 1 - 2 - 3 - 4 - 5 - 6 - N2

Outlet pressure P2
- up to 1.5 bar (P ≤ 50 bar)
- up to 4 bar (P ≤ 50 bar)
- up to 10 bar
- up to 20 bar
- up to 50 bar
- up to 100 bar
- up to 200 bar

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

Ordering example:
FE51-L-200-10-DIN10-M-M-CE6-A-B-N2

Ordering example:
FE51-R-200-10-CGA540-M-M-CE1/8-A-B-Ar