Pressure control panel BM65-2

Product features
- Wall- and cabinet-mounting pressure control panels
- For non-corrosive gases up to quality 6.0
- Laboratory-style design
- Ergonomically designed
- Modular design (to be extended to 2x2, 2x3 etc. cylinders)
- Filter at the process gas inlet valve
- Diaphragm-type shut-off valves optimised for low internal volume with On/Off position indicator
- Suitable for ECD-applications
- Regulator with high control accuracy and integrated relief valve
- Designed for easy installation
- Tested for use with oxygen
- Suitable for inlet pressure values up to 300 bar
- Compact design especially for installation into safety cabinets for gas cylinders
- Models for outlet pressure values of up to 50 and 100 bar available (piston type regulators)
- Dual-stage models: see BM66-2

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>10/20/50/100 bar</td>
</tr>
</tbody>
</table>

Materials
- Body regulator and valves: chrome-plated brass
- Valve seat regulator: PA 11
- Valve seat shut-off valve: PVDF
- Diaphragm regulator: SS 301 (SS 1.4310)
- Diaphragm valve: Hastelloy C276
- Piston ($P_2= 50/100$bar): brass
- Soft goods: Viton (FKM)
- Filter: Sintered SS 316L

Inlet connector
- SS compression ring fitting 6x1 mm

Temperature range
- -30°C to +60°C

Leak rate (to atmosphere)
- 1x10⁻⁸ mbar l/s He

Leak rate (via seat)
- 1x10⁻⁸ mbar l/s He

Pressure gauges
- Safety pressure gauges ISO5171/cl 1.6/NG50

Weight
- 6 kg

Flow curves BM65

Data sheet DES BM65 - Edition 0811
Subject to alteration without prior notice
© 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
Pressure control panel BM65-2

Dimensions

- Dimensions (406 mm overall)
- Side view

Ordering information:
Pressure control panels BM65-2

- Type
  - BM - 65 - 2 - 300 - 10 - M - M - N₂
- Gas type
  - Please specify gas type with your order (selection of valve seat material)
- Outlet pressure P₂
  - M - pressure gauge
  - K - Contact gauge
- Inlet pressure P₁
  - 300 - max. 300 bar
- Outlet pressure P₂
  - 4 - up to 4 bar (dual-stage)
  - 10 - up to 10 bar
  - 20 - up to 20 bar
  - 50 - up to 50 bar (piston type regulator)
  - 100 - up to 100 bar (piston type regulator)

Additional configurations upon request!

Specifications

- SPECTROLAB - components guarantee maximum quality by using high grade materials and a quality assurance program acc. to ISO 9001.
- All components which come into contact with the medium are cleaned in an ultrasonic cleaning system (CFC-free) with the special cleaning process SPECTRO-CLEAN® and are then baked out.
- SPECTROLAB - components undergo a 100% Helium-leak-test.

Pressure indication

- All pressure regulators can be equipped with pressure gauges or contact gauges for in- and outlet pressure indication.

Important note regarding component selection

- In order to assure safe operation it is essential to take the configuration of the whole system into account when selecting a control panel.
- The function of the components, the compatibility of the materials, correlating temperature ranges, correct installation, operation and maintenance in accordance with the relevant regulations are the responsibility of the system designer and the user.