

Pressure control panel BM55-2A

spectro lab



BM55-2A with outlet pressure connection

Product features

- Wall- and cabinet-mounting pressure control panels with fully automatic change-over function
- For non-corrosive gases up to quality 5.0
- No pressure difference between the two gas source sides due to Ambimat
- Maximum emptying of the gas cylinders
- Ergonomically designed
- Modular design (to be extended to 2, 3 etc. cylinders)
- Filter at the process gas inlet valve
- Diaphragm-type shut-off valves optimised for low internal volume with On/Off position indicator
- Diaphragm-type pressure regulator with high control accuracy, integrated relief valve (up to 100 bar) and anti-vibration device
- Laboratory-style design for easy installation
- Approved for use with oxygen
- Suitable for inlet pressure values up to 300 bar
- Compact design especially for installation into safety cabinets for gas cylinders

Technical data

| | |
|---|-----------------------------------|
| Type | single-stage |
| Inlet pressure P_1 | max. 100 / 200 / 300 bar |
| Outlet pressure P_2 | max. 10 / 20 / 50 / 100 / 200 bar |

Materials

| | |
|----------------------------|---------------------|
| Body regulator and valves: | chrome-plated brass |
| Valve seat regulator: | PA 11 |
| Valve seat valves: | PVDF |
| Diaphragm regulator: | Hastelloy C276 |
| Diaphragm valves: | Hastelloy C276 |
| Soft goods regulator: | EPDM |
| Soft goods Ambimat: | FKM |
| Filter regulator: | sintered SS 1.4404 |
| Filter Ambimat: | sintered bronze |

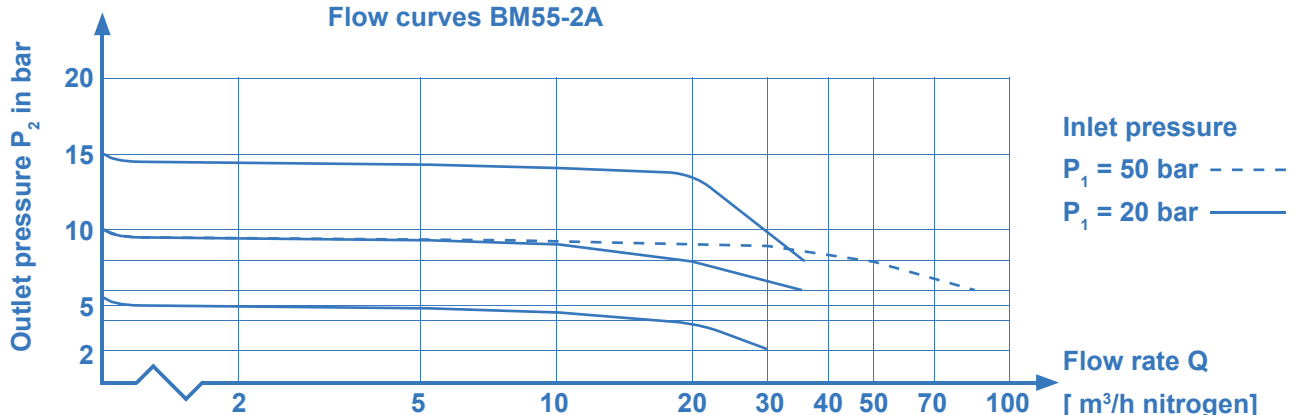
| | |
|---------------|------------------------------------|
| Inlets | SS compression ring fitting 6x1 mm |
|---------------|------------------------------------|

| | |
|--------------------------|--------------|
| Temperature range | -15 to +60°C |
|--------------------------|--------------|

| | |
|------------------|----------------------------|
| Leak rate | |
| to atmosphere: | $\leq 10^{-8}$ mbar l/s He |
| via seat: | $\leq 10^{-6}$ mbar l/s He |

| | |
|---------------|-----------|
| Weight | ca. 10 kg |
|---------------|-----------|

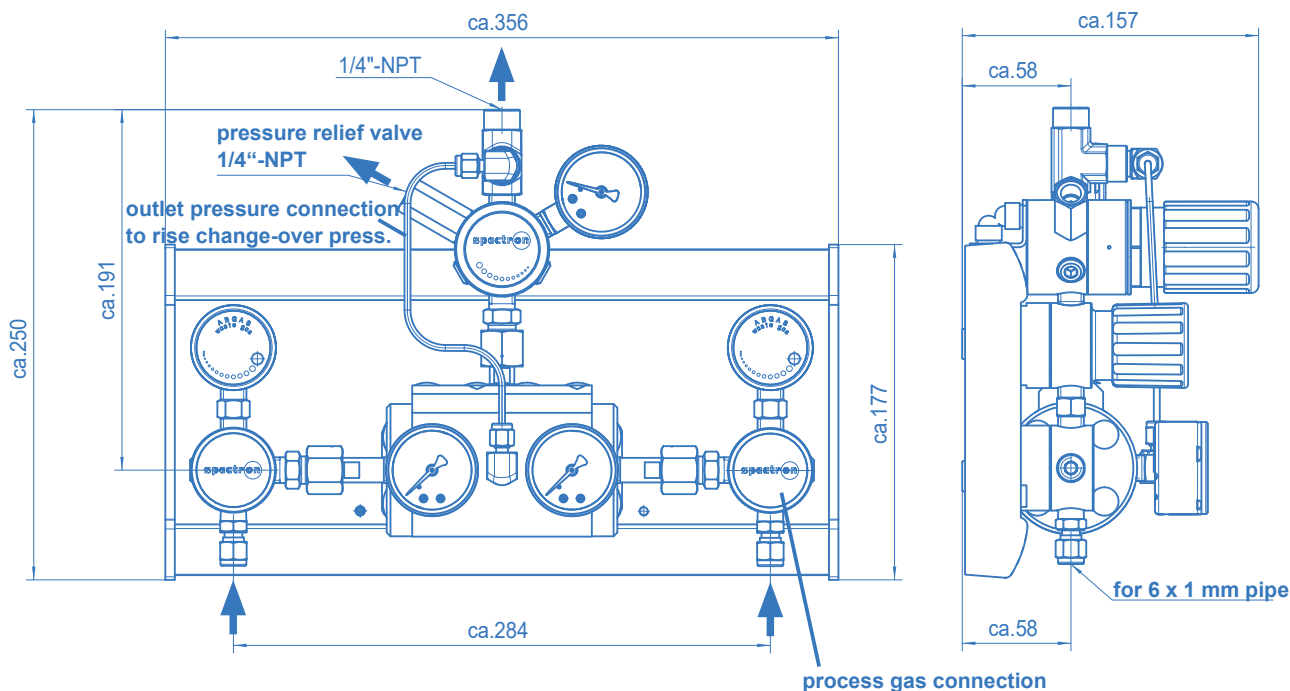
Flow curves BM55-2A



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Dimensions and connections



Ordering information: Pressure control panel BM55-2A

BM55 - 2A - 300 - 10 - CB - V - M - M - N2

Inlet pressure P_1

| | |
|-----|--------------|
| 100 | max. 100 bar |
| 200 | max. 200 bar |
| 300 | max. 300 bar |

Outlet pressure P_2

| Outlet pressure | change-over pressure | |
|-----------------|----------------------|-------------|
| 10 | max. 10 bar | 11-13 bar |
| 20 | max. 20 bar * | 28-30 bar |
| 50 | max. 50 bar * | 55-57 bar |
| 100 | max. 100 bar * | 102-105 bar |
| 200 | max. 200 bar * | 201-203 bar |

* with outlet pressure connection

** Attention: If you combine a connection block (CB) with a contact pressure gauge (K), then there will be an alarm during every purge cycle. To avoid this we recommend to combine a valve (V) with the contact pressure gauge (K). CB cannot be selected as HPV.

Gas type

Please specify gas type!

Outlet pressure indication

Inlet pressure indication

| | |
|----|-------------------------|
| M | pressure gauge |
| K | contact press. gauge ** |
| PT | pressure transmitter |

High press. waste gas HPV

Process gas inlet HPI

| | |
|----|----------------------|
| CB | connection block ** |
| V | valve (manual) |
| VQ | 1/4-turn valve |
| VP | pneumatic valve (NC) |