

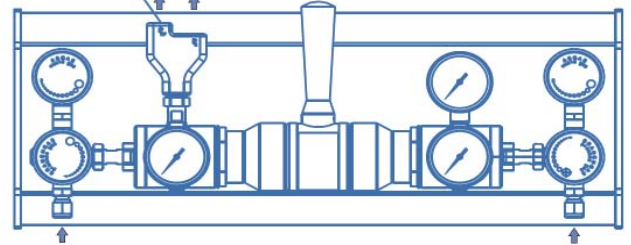
Pressure control panel BE55-2U

spectro**cem**



BE55-2U without valve in the outlet adapter

Pressure relief valve



Product features

- Wall- and cabinet-mounting pressure control panels with automatic change-over function
- For corrosive, toxic gases and gas mixtures up to quality 6.0
- Modular design (to be extended to 2x2, 2x3 etc.)
- 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
- Diaphragm-type pressure regulator with high control accuracy up to 200 bar outlet pressure and anti-vibration device
- Minimised difference of process pressure after automatic change-over
- Outlet adapter with integrated relief valve (up to 100 bar) and optional diaphragm shut-off valve (this prevents the outlet piping from draining during disconnecting the panel)
- Laboratory-style design for easy installation
- Approved for use with oxygen
- Compact design especially for installation into safety cabinets for gas cylinders

Technical data

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

Materials

| | |
|----------------------------|------------------------------|
| Body regulator and valves: | stainless steel 1.4404 |
| Valve seat regulator: | PVDF or PA (NH_3) |
| Valve seat valves: | PCTFE |
| Diaphragm regulator: | Hastelloy C276 |
| Diaphragm valves: | Hastelloy C276 |
| Soft goods: | EPDM, FKM |
| Filter regulator: | stainless steel 1.4404 |

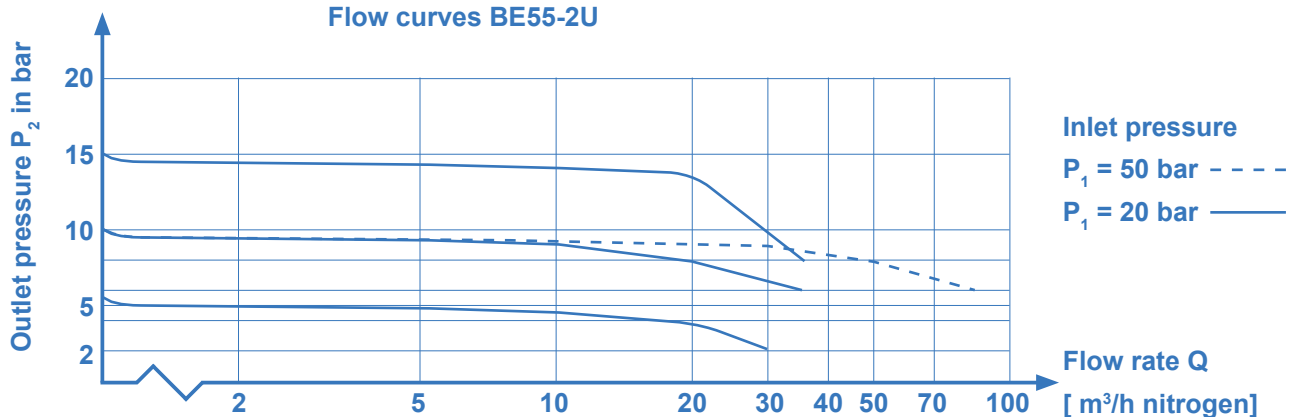
| | |
|--------------------|------------------------------------|
| Connections | SS compression ring fitting 6x1 mm |
| Inlet: | 1/4"-NPT female |
| Outlet: | |

| | |
|--------------------------|--------------|
| Temperature range | -20 to +60°C |
|--------------------------|--------------|

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

| | |
|---------------|--------|
| Weight | 7,7 kg |
|---------------|--------|

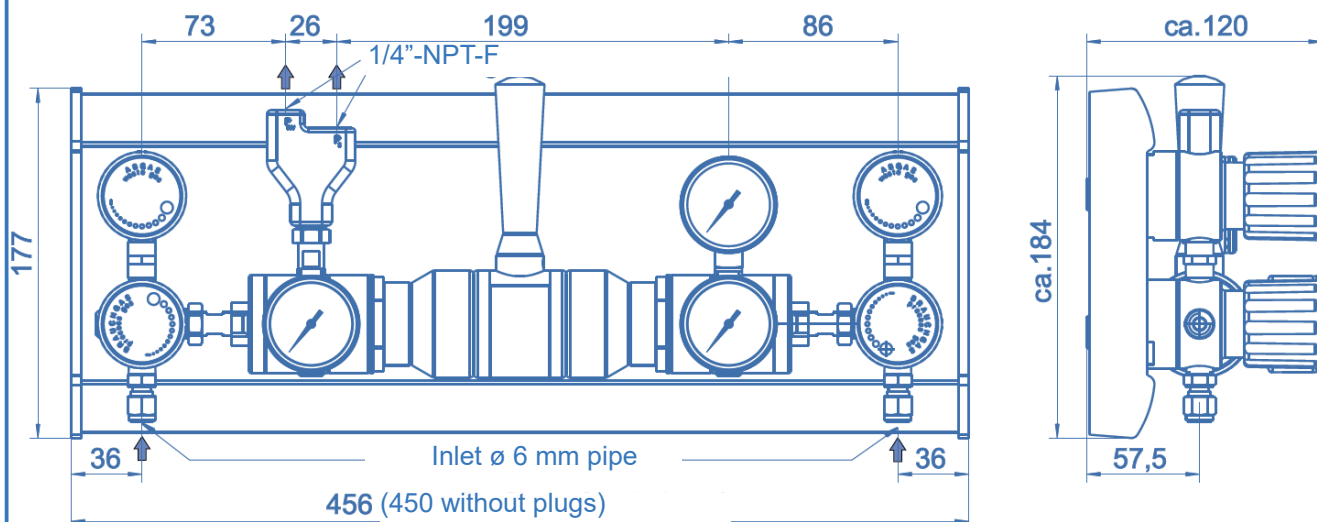
Flow curves BE55-2U



Pressure control panel BE55-2U



Dimensions and connections



Ordering information: Pressure control panel BE55-2U

BE55 - 2U - 300 - 10 - V - V - M - M - V - N2

Inlet pressure P_1

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

Outlet pressure P_2

| | |
|-----|---|
| 10 | middle position = 10 bar; $P_{2 \text{ max/min}} = \pm 1,5$ bar |
| 20 | middle position = 20 bar; $P_{2 \text{ max/min}} = \pm 1,5$ bar |
| 50 | middle position = 50 bar; $P_{2 \text{ max/min}} = \pm 5$ bar |
| 100 | middle position = 100 bar; $P_{2 \text{ max/min}} = \pm 10$ bar |
| 200 | middle position = 200 bar; $P_{2 \text{ max/min}} = \pm 10$ bar |

Process gas inlet HPI

High press. waste gas HPV

| | |
|----|----------------------|
| V | valve (manual) |
| VP | pneumatic valve (NC) |

Gas type

Please specify gas type!

Outlet adapter

| | |
|----|----------------------|
| 0 | without valve |
| V | valve (manual) |
| VP | pneumatic valve (NC) |

Outlet press. indication

Inlet pressure indication

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