



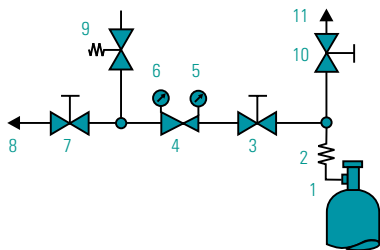
BMD 502-16



BMD 502-24



BMD 502-25



- 1 Cylinder connection
- 2 Connection spirals
- 3 Process gas inlet shut-off valve (type -24 + type 25)
- 4 Pressure regulator - double-stage
- 5 Inlet pressure gauge
- 6 Outlet pressure gauge
- 7 Process gas outlet shut-off valve (type -16 + type 25)
- 8 Process gas outlet
- 9 Relief valve
- 10 Purge gas outlet valve (type -24 + type 25)
- 11 Purge gas outlet

**Double-stage,
for inert and flammable gases and gas mixtures,
purity max. 6.0,
inlet pressure 230 bar / 3300 psi,
outlet pressure range 0,2 - 10,5 bar / 3 - 150 psi**

Highlights

- ▲ **Outlet pressure virtually independent of inlet pressure due to double-stage design**
- ▲ **Gas supply panel for standard applications (type -16)**
- ▲ **Internal gas purging (type -24)**
- ▲ **Internal gas purging and process gas outlet shut-off valve (type -25)**

Features

These gas panels are mounted on a stainless steel panel and consist of a pressure regulator, inlet and outlet pressure gauges, a relief valve and shut-off valves (type -16 at the outlet, type -24 at the inlet, type -25 at inlet and outlet) for the process gas. A choice of stainless steel coils or flexible high pressure hoses is available for the connection to the gas cylinder. The use of contact pressure gauges (accessories) facilitates monitoring of the gas reserves.

Application

Twin-stage station pressure regulators are usually installed peripherally in the cylinder cabinet near the point of use and reduce the cylinder pressure to the operating pressure of the secondary consumers. This SMD 502-24 design allows purging to be carried out with internal gas while cylinders are being changed. This flushes the atmospheric air from the system; gas purity is maintained. The SMD 502-25 design allows shutting-off of gas flow during cylinder change with the panel itself. Standard application for these panels: centralized or decentralized gas supply for highly sensitive analysis devices.

Technical data

| | |
|-----------------------------|--|
| Body Material: | stainless steel 316L (1.4404) specially cleaned and electro-polished or brass CW614 (CuZn39Pb3) specially cleaned, chrome-plated |
| Seat sealing 1st stage: | PCTFE |
| Seat sealing 2nd stage: | PTFE |
| Body sealing material: | PCTFE (SS), PTFE (brass) |
| Relief valve seat material: | stainless steel: FKM, (EPDM, FFKM)* brass: EPDM, (FKM)* * on request |
| Performance data: | see chapter 5.1 |
| Basic design aspects: | see page 10 |
| Pressure gauge range: | -1 - 5 bar (-15 - 75 psi) -1 - 10 bar (-15 - 145 psi) -1 - 18 bar (-15 - 260 psi) 0 - 315 bar (0 - 4500 psi) |
| Dimensions (w x h d d): | 400 x 155 x 160 mm |
| Weight: | 1,0 kg |
| Inlet connection: | M 14 x 1,5 (standard) NPT 1/4" f (optional) |

Order code

| Type | Material | Inlet pressure | Outlet pressure | Inlet conn. | Outlet conn. | Contact press. gauge | Gas type |
|-------------------|----------------|----------------|--------------------------------|-------------|---|----------------------|---------------------------|
| SMD 502-16 | BC | F | 3 | N14 | CL6 BC | Ki | Gas |
| SMD 502-16 | BC = brass | F = 230 bar | 3 = 0,1 - 3 bar/1,5 - 45 psi | N14 = | 0 | 0 = without | Specification of used gas |
| SMD 502-24 | SS = stainless | /3300 psi | 6 = 0,5 - 6 bar/7 - 85 psi | NPT 1/4" | CL6 | Ki = with | |
| SMD 502-25 | steel | | 10 = 1 - 10,5 bar/15 - 150 psi | | CL8 CL10 CL12 BC = brass SS = stainless steel | | |

For proper installation and service of this panel a gas specific spiral connection tube is necessary. See in chapter Accessory page 94.
Outlet: (expl.: CL6=tube fitting with outer diameter 6 mm, 0 = without).