



- 1 Cylinder connection
- 2 Connection spirals
- 3 Process gas inlet shut-off valve (type -24 + type 25)
- 4 Pressure regulator - single-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

### Order code

Type	Material	Inlet pressure	Outlet pressure	Inlet conn.	Outlet conn.	Contact press. gauge	Gas type
<b>SMD 500-16</b>	<b>BC</b>	<b>F</b>	<b>14</b>	<b>N14</b>	<b>CL6 BC</b>	<b>Ki</b>	<b>Gas</b>
SMD 500-16	BC = brass	F	14 = 1 - 14 bar / 15 - 200 psi	N14 =	0	0 = without	Specification
SMD 500-24	SS = stainless steel	F = 230 bar / 3300 psi	28 = 2,5 - 28 bar / 35 - 400 psi	NPT 1/4"	CL6, CL8	Ki = with	of used gas
SMD 500-25	steel		50 = 2,5 - 50 bar / 35 - 720 psi (optional: 200 = 10 - 200 bar / 145 - 2900 psi)		CL10, CL12		
					BC = brass SS = stainless steel		

**Single-stage, for inert, reactive, flammable and oxidizing gas (type -25) and gas mixtures, purity max. 6.0, inlet pressure 230 bar / 3300 psi, outlet pressure range**  
**SMD 500-16: 1 - 50 bar / 14 - 720 psi**  
**SMD 500-24/25: 1 - 200 bar / 14 - 2900 psi**

### Highlights

- ▲ 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

Gas panels are permanently installed in the cylinder stock room or cabinet and reduce the cylinder pressure to a lower line pressures. The gas is guided to the point of use via the subsequent piping system.

This SMD 500-24 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 500-25 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:	PCTFE
Body sealings:	PCTFE (SS), PVDF (brass)
Relief valve seat material	FKM, (EPDM, FFKM)*, EPDM, (FKM)* *on request
Performance data:	see chapter 5.1
Basic design aspects:	see page 10
Pressure gauge range:	-1 - 10 bar (-15 - 145 psi) 0 - 25 bar (0 - 365 psi) 0 - 40 bar (0 - 600 psi) 0 - 80 bar (0 - 1150 psi) 0 - 315 bar (0 - 4500 psi)
Relief valve:	version 10 - 200 bar without
Weight:	0,73 / 0,74 / 0,75 kg
Dimensions (wxhxd):	250 x 155 x 185 mm
Purge gas inlet:	NPT 1/4" f (optional)
Inlet:	M 14 x 1,5 (standard)

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).