



- 1 Cylinder connection
- 2 Connection spiral
- 3 Process gas inlet shut-off valve
- 4 Pressure regulator - single-stage
- 5 Inlet pressure gauge
- 6 Outlet pressure gauge
- 7 Process gas outlet
- 8 Relief valve
- 9 Purge gas outlet valve
- 10 Purge gas outlet

**Single-stage,  
for inert, reactive, flammable and oxidizing gas and gas mixtures,  
purity max. 6.0,  
inlet pressure 230 bar / 3300 psi,  
outlet pressure range 1 - 50 (option 200) bar / 14 - 725 (3300) psi**

### Highlights

- ▲ Continuous gas supply even during cylinder change
- ▲ Fast manual switch-over to the reserve gas
- ▲ Optional contact pressure gauges for gas supply failure monitoring
- ▲ Internal gas purging (BMD 500-32)
- ▲ Connection for 2 x 1 cylinders, extension for 2 x 4 cylinders,

### Features

These gas panels reduce the inlet pressure of maximum 230 bar to pressure levels of 1 to 50 bar (optional 200 bar). The BMD 500 is mounted on a stainless steel panel and consists of a pressure regulator and inlet and outlet pressure gauges. Process gas shut-off valves are located on the inlet side.

Due to switching over from the empty cylinder to the full one manually by opening/closing the shut-off valves the gas supply must not be interrupted during cylinder change. The use of contact pressure gauges (accessories) monitors the minimum reserves for switching over in time. The internal gas purging of BMD 500-32 gives the opportunity of purity level constancy during cylinder change.

### Application

The BMD 500-30/32 are gas panels for continuous gas supply and are applied at the first pressure level. The benefit of this gas panel: fast switch-over to the reserve cylinders and the maintaining of gas supply (BMD 500-32: and purity) during cylinder change. Standard application: centralized or decentralized gas supply for highly sensitive analysis device.

### 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 - 18 bar (-15 - 260 psi) 0 - 80 bar (0 - 1150 psi) 0 - 315 bar (0 - 4500 psi)
Relief valve:	10 - 200 bar version without
Weight:	1,3 / 1,5 kg
Dimensions: (wxhxd):	BMB 500-32: 400 x 200 x 185 mm BMB 500-32: 440 x 200 x 185 mm
Inlet:	M 14 x 1,5 (standard) NPT 1/4" f (optional)

### Order code

Type	Material	Inlet pressure	Outlet pressure	Inlet conn.	Outlet conn.	Contact pressure gauge	Gas type
<b>BMD 500-30</b>	<b>BC</b>	<b>F</b>	<b>14</b>	<b>N14</b>	<b>CL6 BC</b>	<b>Ki</b>	<b>Gas</b>
BMD 500-30	BC = brass	F = 230 bar/3300 psi	14 = 1 - 14 bar/ 15 - 200 psi	N14 = NPT 1/4"	0 CL6	0 = without Ki = with	Specification of used gas
BMD 500-32	SS = stainless steel		50 = 2,5 - 50 bar/ 36 - 720 psi (Optional: 230 = 10 - 200 bar/ 145 - 2900 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).