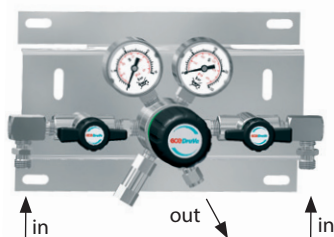
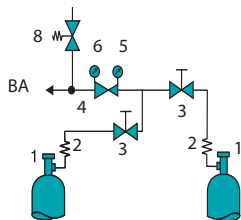


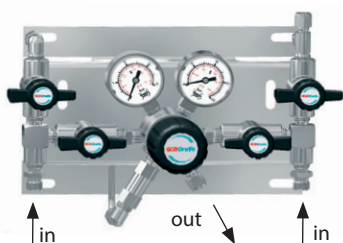
GAS SUPPLY MANIFOLDS BMD 500/530-30/-32 - MANUAL CHANGEOVER



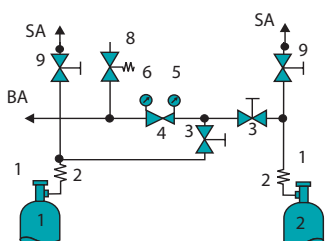
FLOW SCHEMATIC



Type -30



FLOW SCHEMATIC



Type -32

(with vent piping)

- 1 Inlet connection
- 2 Coil/Hose
- 3 Process gas inlet shut-off valve
- 4 Regulator single-stage
- 5 Upstream pressure gauge
- 6 Downstream pressure gauge
- 8 Relief valve
- 9 Purge outlet valve
- SA Purge outlet
- BA Process gas outlet

**Single-stage,
for inert, reactive, flammable and oxidizing gases and gas mixtures,
purity max. 6.0,
inlet pressure 230/300 bar / 3300/4350 psi,
Outlet pressure range 1 – 200 bar / 14 – 2900 (3300) psi**

SPECIAL FEATURES

- Continuous gas supply even during cylinder change
- Fast manual switch-over to the reserve side
- Optional contact pressure gauges to monitor for gas supply failure
- Process gas purging (BMD 500-32)
- Connection for 2x1 cylinders, upgradable for 2x4 cylinders,

DESCRIPTION

These gas supply panels reduce the upstream pressure from 230/300 bar to downstream pressures of 1 to 200 bar. The BMD 500/530 is mounted onto a stainless steel console and consist of a pressure regulator and inlet and outlet gauges. The upstream shut-off valve enables the uninterrupted gas supply even while changing cylinders. The use of contact gauge (accessories) in conjunction with alarm box (accessories) facilitates the monitoring of gas reserves. The additional purge valve permits for purging the station with internal gas and thereby maintaining the gas purity even during a cylinder change. Vent piping for connection to the relief valve (by downstream pressure >50bar RV on request) can be ordered optionally for type -32.

APPLICATION

The manifold enables a continuous gas supply. The manifolds main advantage here is the ability to quickly change over to the reserve cylinder and the uninterrupted gas supply during the cylinder switch over. Standard application for these panels: centralized or decentralized gas supply for highly sensitive analytical devices.

TECHNICAL DATA

Body:	stainless steel 316L (1.4404) specially cleaned and electro-polished or brass CW614 (CuZn39Pb3) specially cleaned, nickel-plated and chrome-plated
Relief valve:	Outlet NPT 1/4" f (downstream pressure > 50 bar RV *)
Seat seals:	PCTFE
Body seals:	PCTFE (SS), PVDF (Brass)* Relief valve seat seals FKM, (EPDM, FFKM)*, EPDM, (FKM)*
Basic design aspects:	see page 19
Pressure gauge range:	-1–18 bar (-15 – 260 psi), 0–80 bar (0 – 1150 psi) 0–315 bar (0 – 4500 psi), 0–400 bar (0 – 5800 psi)
Weight:	approx. 2.9 /3.8 kg
Dimensions (wxhxd):	approx. 400x200x185 mm (BMD 500-30); 440x200x185 mm (BMD 500-32)
Inlet:	NPT 1/4" f, M14x1.5 (optional)
Outlet:	NPT 1/4" f, optional tube fitting

*on request

ORDER CODE

Type	Material	Inlet pressure	Outlet pressure	Inlet	Outlet*	Contact gauge	Vent piping	Upgrade	Gas type
BMD 500-30	BC	F	14	N14	CL6 BC	Ki	A	M	GAS
200 bar Versions:	BC = brass	F = 230 bar /3300 psi	14 = 1 – 14 bar /15 – 200 psi	N14 = NPT 1/4" f	N14 = NPT 1/4" f CL6, CL8	0 = without	0 = without A = with	0 = without M2 = 2x2 Cylinder	Please specify
BMD 500-30	chrome-plated								
BMD 500-32	SS = stainless steel	G = 300 bar /4350 psi	50 = 2.5 – 50 bar /35 – 720 psi	M14x1.5m (optional)	CL10, CL12 BC = brass chrome-plated	Ki = with	(On type-32 only in combination with RV)	M3 = 2x3 Cylinder M4 = 2x4 Cylinder	
300 bar Versions:			200 = 10 – 200 bar /145 – 2900 psi)		SS = stainless steel				
BMD 530-30									
BMD 530-32									

It is necessary to have a gas specific connection to the gas supply for an efficient installation and use of this station, see accessories chapter "cylinder connection".
*Outlet: CL... = compressed fitting for ... mm outside diameter, NO... = hose connector for ... mm hose inside diameter.