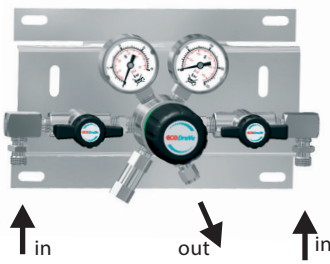


GAS SUPPLY MANIFOLDS BMD 500/530-30/-32



**Single-stage,
for inert, reactive, flammable and oxidizing gases and gas mixtures,
purity max. 6.0,
inlet pressure 230/315 bar / 3300/4500 psi,
downstream 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 gauge 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 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.

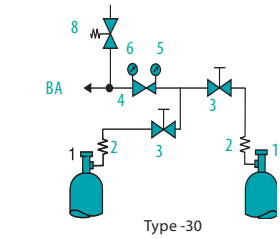
APPLICATION

The manifold enables a continuous gas supply. The manifold's 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.

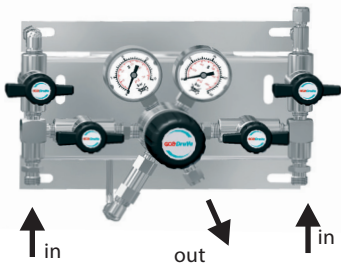
TECHNICAL DATA

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)*
Performance data:	see chapter 5
Basic design aspects:	see page 13
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

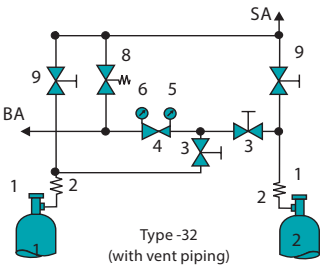
*on request



Type -30



FLOW SCHEMATIC



Type -32
(with vent piping)

- 1 Inlet connection
- 2 Coil
- 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

ORDER CODE

Type	Material	Upstream pressure	Downstream pressure	Inlet	Outlet	Contact gauge	Vent piping	Upgrade	Gas type
BMD 500-30	BC	F	14	N14	CL6 BC	Ki	A	M	GAS
BMD 500-30	BC = brass	F = 230 bar	14 = 1 - 14 bar	N14 =	0=NPT 1/4" f	0 =	0 = without	0 = without	Please specify
BMD 500-32	chrome-plated	/3300 psi	/15 - 200 psi	NPT 1/4" f	CL6, CL8**	without	A = with	M2 = 2x2	
300 bar Versions:			50 = 2.5 - 50 bar	M14x1.5	CL10, CL12	Ki = with	(On type-32	Cylinder	
BMD 530-30	SS = stainless	G = 315 bar	/35 - 720 psi	(optional)	BC = brass		only in	M3 = 2x3	
BMD 530-32	steel	/4500 psi	200 = 10 - 200 bar		chrome-plated		combination	Cylinder	
			/145 -2900 psi)				with RV)	M4 = 2x4	Cylinder

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 FA 500". **Outlet: CL6 = tube fitting for tube 6 mm, (0 = without). Please note the "burst rate chart" when choosing the tube fittings in chapter 5.