

Single-stage,
for inert, reactive, flammable and oxidizing gases and gas mixtures, purity max. 6.0,
inlet pressure 230/300 bar / 3300/4350 psi,
preset downstream pressure 14/50 bar - 200/720 psi

SPECIAL FEATURES

- Uninterrupted gas supply with semiautomatic switch over
- Indicator for active cylinder
- Low gas alarm signal with contact gauges (optional)
- Upgradable to max. 2x4 cylinders

DESCRIPTION

Pressure decreases in the active cylinder (or bundle) below a preset level which causes a semi-automatic switch to switch over to the full cylinder. This is achieved by two integrated pressure regulators (preset to slightly different delivery pressure levels), connected at their outlet ports. Moving the lever towards the full bank allows for the disconnection and replacement of empty cylinders without interruption to the gas flow.

The use of contact gauge (accessories) in conjunction with alarm box (accessories) facilitates the monitoring of gas reserves. The BMD 500-34 has an external gas purge, the BMD 500-35 an internal gas purge. Vent piping for connection to the relief valve (on type -34 included) can be ordered optionally for type -35.

APPLICATION

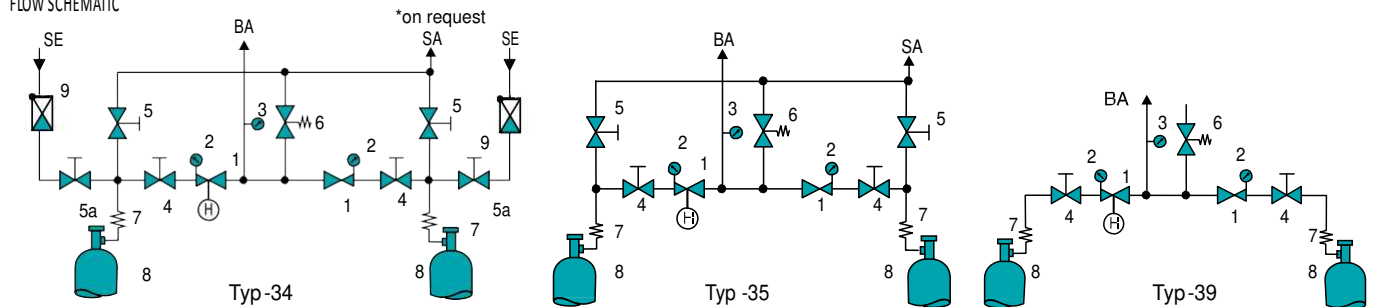
These gas supply panels, with semi-automatic switch over, are optimally used when it is when uninterrupted gas supply is required.

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
Body seals:	PCTFE (SS), PVDF (Brass)
Seat seals:	PCTFE
Relief valve seat seals:	FKM, (EPDM, FFKM)*, EPDM, (FKM)*
Pressure gauge range:	-1 - 18 bar (-15 - 260 psi) / 0 - 315 bar (0 - 4500 psi)
	0 - 400 bar (0 - 5800 psi)
Dimensions (w×h×d):	approx. 400×155×200 mm
Weight:	approx. 5.5 kg (BMD 500-35)
Preset downstream pressure:	14 bar +/- 2 bar ; 200 +/- 30 psi
Flow rate:	25 Nm³/h N₂ (14 bar - type at 29 bar inlet pressure)
Purge inlet and outlet:	Tube fitting 6 mm (BMD 500-34)
Inlet:	NPT 1/4" f, M 14×1.5 (optional)
Outlet:	NPT 1/4" f, optional tube fitting

- 1 Pressure regulator
- 2 Upstream pressure gauge
- 3 Downstream pressure gauge
- 4 Process gas valve
- 5 Purge gas outlet valve
- 5a Purge gas inlet valve
- 6 Relief valve
- 7 Connection spirals
- 8 Gas cylinder
- 9 Check valve
- H Lever
- BA Process gas outlet
- SA Purge gas outlet
- SE Purge gas inlet

FLOW SCHEMATIC



ORDER CODE	Type	Material	Upstream pressure	Downstream pressure	Inlet	Outlet	Contact gauge	Vent piping	Extension bar	Gas type
BMD 500-35		BC	F	MSD14	N14	CL6 BC	Ki	A	M	GAS
BMD 500-34		BC = brass			N14 =	N14 = NPT 1/4" f	0 =	0 = without	0 = without	Please
BMD 500-35		chrome-plated	F = 230 bar	MSD14 =	NPT 1/4" f	CL6, CL8**	without	A = with	M2 = 2×2	specify
BMD 500-39		SS = stainless	/3300 psi	14 bar/200 psi	M14×1.5	CL10, CL12	Ki = with	(On type-35	Cylinder	
300 bar Versions:		steel		MSD50 =	(optional)	BC = brass		only in	M3 = 2×3	
BMD 530-34			G = 300 bar	50 bar/720 psi		chrome-plated		combination	Cylinder	
BMD 530-35			/4350 psi					with RV)	M4 = 2×4	
BMD 530-39									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

Subject to change without notice