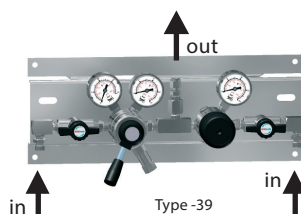
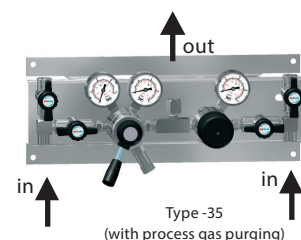
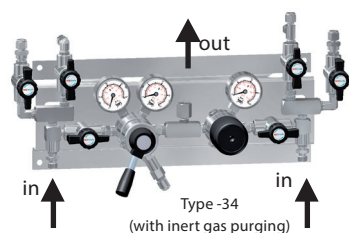


## GAS SUPPLY MANIFOLDS BMD 500/530-34/-35/-39



- 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

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

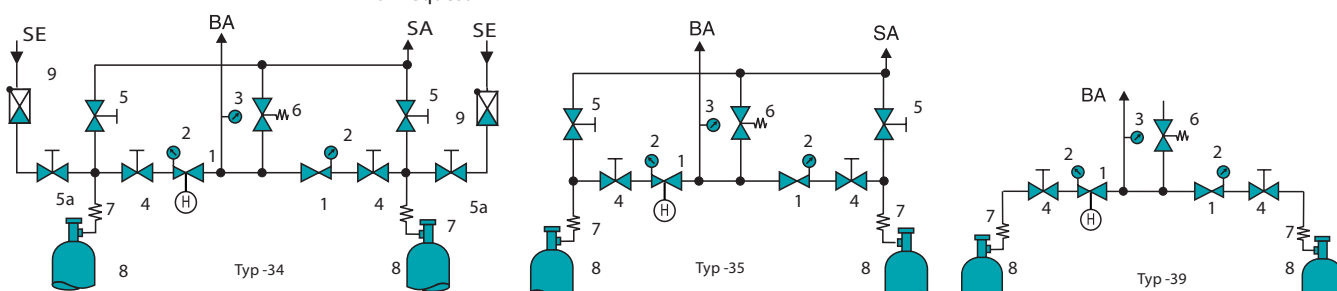
These gas supply panels, with semi-automatic switch over, are optimally used when it is when uninterrupted gas supply is required.

### 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 (wxhxd):	approx. 400x155x200 mm
Weight:	approx. 5.5 kg (BMD 500-35)
Preset downstream pressure:	14 bar +/- 2 bar ; 200 +/- 30 psi
Flow rate:	25 Nm <sup>3</sup> /h N <sub>2</sub> (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 14x1.5 (optional)
Outlet:	NPT 1/4" f, optional tube fitting

\*on request

### FLOW SCHEMATIC



### ORDER CODE

Type	Material	Upstream pressure	Downstream pressure	Inlet	Outlet	Contact gauge	Vent piping	Extension bar	Gas type
<b>BMD 500-35</b>	<b>BC</b>	<b>F</b>	<b>14</b>	<b>N14</b>	<b>CL6 BC</b>	<b>Ki</b>	<b>A</b>	<b>M</b>	<b>GAS</b>
BMD 500-34	BC = brass	F = 230 bar	14 = 14 bar /	N14 =	0 = NPT 1/4" f	0 =	0 = without	0 = without	HYDROGEN
BMD 500-35	chrome-plated	/3300 psi	200 psi	NPT 1/4" f	CL6, CL8**	without	A = with	M2 = 2x2	
BMD 500-39	SS = stainless		50 = 50 bar	M14x1.5	CL10, CL12	Ki = with	(On type-35	Cylinder	
300 bar Versions:	steel	G = 315 bar	/720 psi	(optional)	BC = brass		only in	M3 = 2x3	
BMD 530-34		/4500 psi			chrome-plated		combination	M4 = 2x4	
BMD 530-35							with RV)	Cylinder	
BMD 530-39									

Subject to change without notice

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.