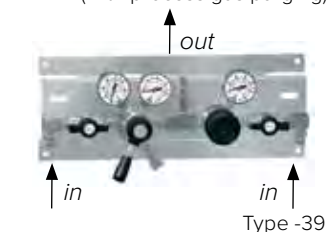
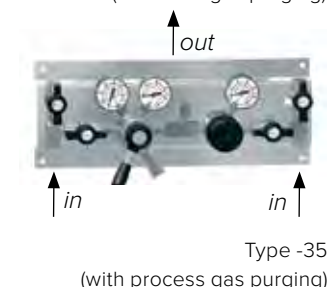
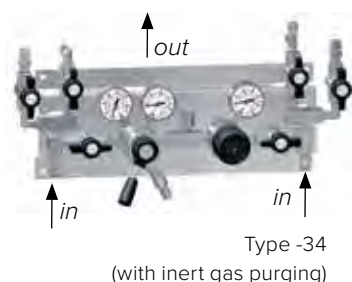


# GCE CENTRAL GAS SYSTEMS



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

## SEMI-AUTOMATIC



- 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 Coil/hose
- 8 Gas cylinder
- 9 Check valve
- 3a Middle pressure gauge
- 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 230/300 bar / 3300/4350 psi, preset Outlet pressure 14/50 bar - 200/720 psi

### SPECIAL FEATURES

- > Uninterrupted gas supply with semi-automatic
- > Indicator for active cylinder
- > Low gas alarm signal with contact gauges (optional)
- > Upgradable to max. 2×4 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 can be ordered optionally.

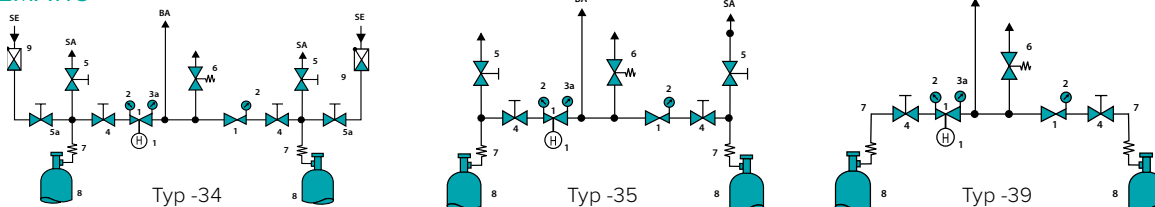
### APPLICATION

These gas supply panels, with semi-automatic switch over, are optimally used 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:	SS-FKM, (EPDM, FFKM)*, Brass-EPDM, (FKM)*
Pressure gauge range:	-1 – 18 bar (-15 – 260 psi) (-100 – 1800 kPa)/ 0 – 315 bar (0 – 4500 psi) (0 – 31500 kPa)
	0 – 400 bar (0 – 5800 psi)
Dimensions (w×h×d):	approx. 400×155×200 mm
Weight:	approx. 5.5 kg (BMD 500-35)
Preset outlet 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 , M14×1.5 (optional)
Outlet:	NPT 1/4" f, optional tube fitting

\*on request

### FLOW SCHEMATIC



### ORDER CODE

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

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.