

**GAS SUPPLY MANIFOLDS BMD 322-39 SEMI-AUTOMATIC - DUAL STAGE**



**Dual-stage, for inert, reactive, flammable and oxidizing gases and gas mixtures, purity max. 5.0, inlet pressure 230 bar / 3300 psi, preset downstream pressure 14 bar - 200 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 hand wheel 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. Rotation by hand wheel with the arrow to direction of 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.

**APPLICATION**

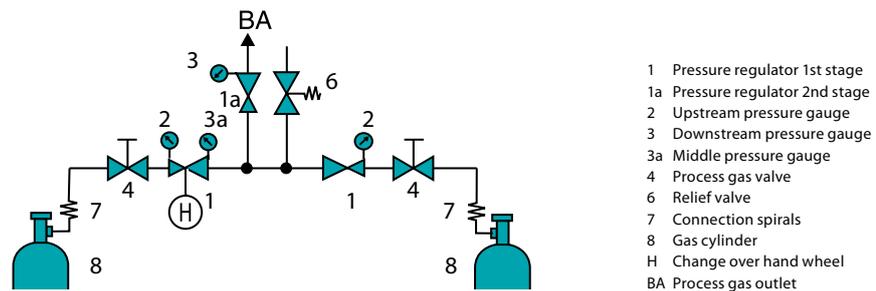
These gas supply panels, with semi-automatic switch over, are optimally used when it is uninterrupted gas supply is required.

**TECHNICAL DATA**

Body:	stainless steel 316L (1.4404) specially cleaned 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 - 10 bar (15 - 145 psi)/-1 - 18 bar (-15 - 260 psi)/0 - 315 bar (0 - 4500 psi)
Dimensions (w×h×d):	approx. 400×155×200 mm
Weight:	approx. 6.0 kg (BMD 322-39)
Flow rate:	10 Nm <sup>3</sup> /h N <sup>2</sup> (10 bar - type at 21 bar inlet pressure)
Inlet:	NPT 1/4" f, M 14×1.5 (optional)
Outlet:	NPT 1/4" f, optional tube fitting

\*on request

**FLOW SCHEMATIC**



- 1 Pressure regulator 1st stage
- 1a Pressure regulator 2nd stage
- 2 Upstream pressure gauge
- 3 Downstream pressure gauge
- 3a Middle pressure gauge
- 4 Process gas valve
- 6 Relief valve
- 7 Connection spirals
- 8 Gas cylinder
- H Change over hand wheel
- BA Process gas outlet

**ORDER CODE**

Type	Material	Upstream pressure	Downstream pressure	Inlet	Outlet	Contact gauge	Extension MFold	Gas type
<b>BMD 322-39</b>	<b>BC</b>	<b>F</b>	<b>MSD10</b>	<b>N14</b>	<b>CL6 BC</b>	<b>Ki</b>	<b>M2</b>	<b>Gas</b>
BMD 322-39	BC = brass chrome-plated SS = stainless steel	F = 230 bar / 3300 psi	MSD6 = 6 bar/ 85 psi MSD10 = 10,5 bar/ 150 psi	N14 = NPT 1/4" f M14×1.5 (optional)	0=NPT 1/4" f CL6, CL8** CL10, CL12 BC = brass chrome-plated	0 = without Ki = with	0 = without M2 = 2×2 Cylinder M3 = 2×3 Cylinder M4 = 2×4 Cylinder	Please specify

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.