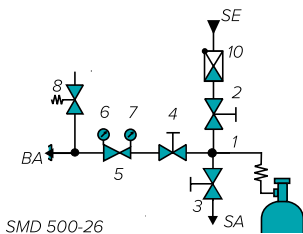
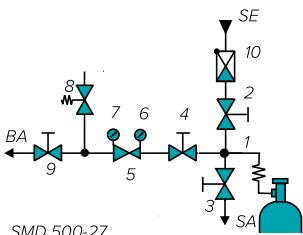


# GAS SUPPLY PANELS SMD 500/530-26/27 - SINGLE CYLINDER



Single-stage, with external gas purging, for reactive, toxic, oxidizing and corrosive (optional Hastelloy inner parts) gas and gas mixtures, no oxygen, purity max. 6.0, Inlet pressure 230/300 bar/3300/4350 psi, Outlet pressure range 0.5 – 200 bar / 7 – 2900 psi

## FLOW SCHEMATIC



- 1 Inlet connection
- 2 Purge inlet valve
- 3 Purge outlet valve
- 4 Upstream shut-off valve
- 5 Pressure regulator
- 6 Upstream pressure gauge
- 7 Downstream pressure gauge
- 8 Relief valve
- 9 Downstream shut-off valve
- 10 Check valve
- SE Purge inlet
- SA Purge outlet
- BA Process gas outlet

## SPECIAL FEATURES

- > With inert gas purging
- > Optimum purge conditions with purge valve block
- > Inlet and outlet shut-off valve
- > Optional Hastelloy inner parts for corrosive gases

## DESCRIPTION

The SMD 500-27 is mounted on a stainless steel panel and consists of a purge valve block with check valve, a purge inlet and purge outlet valves, pressure regulator, inlet and outlet pressure gauges, a relief valve and inlet and outlet shut-off valves for in- and outlet of the process gas. Stainless steel coils for connection to the gas cylinders are available. The use of contact gauge (accessories) in conjunction with alarm box (accessories) facilitates the monitoring of gas reserves. Vent gas piping for attachment to the relief valve can be ordered as an optional extra (by downstream pressure of >50bar RV on request).

## APPLICATION

Gas panels are permanently installed in the cylinder stock room or cabinet near the point of use and reduce the cylinder pressure to a lower line pressure. Through the subsequent piping system the gas is taken to the point of use. The positioning of the purge block on the inlet side reduces the purge volume to a minimum (only with cylinder connection) and allows for a separate discharge for the purge gases. The SMD 500-27 guarantees optimum purge conditions even when using toxic gases and so offers maximum safety for the user and the application. This design with external gas purging offers the following advantages:

1. Purging the residual gas in the system before a cylinder change improves personnel safety levels.
2. Maintaining gas purity by purging the atmospheric air which has penetrated the system during cylinder changing.
3. Purging with dry inert gas reduces humidity and extends the expected live span when corrosive gases are used

TECHNICAL DATA	
Body:	stainless steel 316L (1.4404) specially cleaned and electro-polished
Relief valve:	Outlet NPT 1/4" f, downstream pressure > 50 bar RV *
Seat seals:	PCTFE
Relief valve seat seals:	FKM, (EPDM, FFKM) *
Basic design aspects:	see page 15
Pressure gauge range:	-1 – 10 bar (-15 – 145 psi) (-100 – 1000 kPa), 0 – 25 bar (0 – 365 psi) (0 – 2500 kPa) 0 – 40 bar (0 – 600 psi) (0 – 4000 kPa), 0 – 80 bar (0 – 1150 psi) (0 – 8000 kPa) 0 – 315 bar (0 – 4500 psi) (0 – 31500 kPa)
Weight:	approx. 4.0 kg
Dimensions (w×h×d):	approx. 305×235×185 mm
Purge inlet:	check valve, Tube fitting 6 mm
Purge outlet:	NPT 1/4" f, optional tube fitting
Inlet:	NPT 1/4" f, M 14×1,5 (optional)
Outlet:	NPT 1/4" f, optional Tube fitting

\*on request

## ORDER CODE

Type	Material	Inlet pressure	Outlet pressure	Inlet	Outlet**	Option contact gauge inlet	Option contact gauge inlet	Gas type
<b>SMD 500-27</b>	<b>SS</b>	<b>F</b>	<b>6</b>	<b>N14</b>	<b>CL6 BC</b>	<b>Ki1</b>	<b>Ki2</b>	<b>GAS</b>
200 bar Versions:	SS = stainless	F = 230 bar /3300 psi	6 = 0.5 – 6 bar /7 – 85 psi	N14 = NPT 1/4" f	N14 = NPT 1/4" f	0 = without	0 = without	Please specify
SMD 500-26	steel	G = 300 bar /4350 psi	14 = 1 – 14 bar	M14x1.5m (optional)	CL6	Ki1 = with	Ki1 = with	(no O <sub>2</sub> )
SMD 500-27			/15 – 200 psi		CL8		Ki2 = with	
300 bar Versions:			50 = 2.5 – 50 bar		CL10		Ki5 = with	
SMD 530-26			/35 – 720 psi		CL12			
SMD 530-27			200 = 10 – 200 bar		SS = stainless steel			

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.