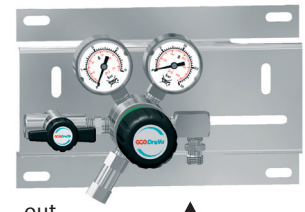
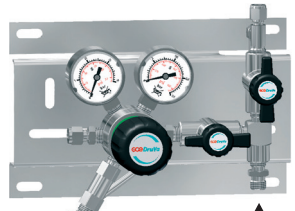
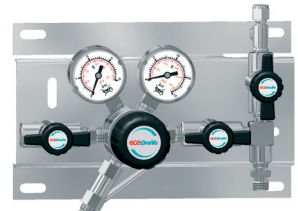
GAS SUPPLY PANELS SMD 500/530-16/-24/-25







Single-stage,
for inert, reactive, flammable and oxidizing gases and gas mixtures,
purity max. 6.0
inlet pressure 230/315 bar / 3300/4500 psi
downstream pressure range 1 - 200 bar / 14 - 2900 psi

SPECIAL FEATURES

- Gas supply panel for standard applications (Type -16)
- Process gas purging (Type -24)
- Process gas purging and process gas outlet shut-off valve (Type -25)

DESCRIPTION

These gas supply panels are mounted onto a stainless steel panel and consist of a pressure regulator, inlet and outlet pressure gauges, a relief valve (by downstream pressure>50bar RV on request) and shut-off valves(type -16 at the outlet, type -24 at the inlet, type -25 at inlet and outlet) for the process gas. A choice of stainless steel coils or flexible high pressure hoses is available for the connection to the gas cylinder. The use of contact gauge (accessories) in conjunction with alarm box (accessories) facilitates the monitoring of gas reserves. Vent piping connected to the relief valve can be ordered optionally.

APPLICATION

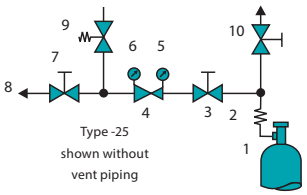
Gas panels are permanently installed in the cylinder stock room or cabinet near the point of use and reduce the cylinder pressure to a lower line pressure. Through the subsequent piping system the gas is taken to the point of use. The type -24 allows for process gas purging to be carried out while cylinders are being changed. The type-25 design allows shutting-off of gas flow during cylinder change from the panel itself. Standard application for these panels: centralized or decentralized gas supply for highly sensitive analysis devices.

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, downstream pressure > 50 bar RV on request
Seat seals:	PCTFE
Body seals:	PCTFE (SS), PVDF (Brass)
Relief valve seat seals:	SS: FKM, (EPDM, FFKM)*, Brass: EPDM, (FKM)*
Performance data:	see chapter 5
Basic design aspects:	see page 13
Pressure gauge range:	-1 - 10 bar (-15 - 145 psi)
	0 - 25 bar (0 - 365 psi), 0 - 40 bar (0 - 600 psi)
	0 - 80 bar (0 - 1150 psi), 0 - 315 bar (0 - 4500 psi)
	0 - 400 bar (0 - 5800 psi)
Weight:	approx. 2.5 kg (type -16) / 2.74 kg (type -24)/ 3 kg (type -25)
Dimensions (w×h×d):	approx. 250×155×185 mm
Purge outlet:	NPT 1/4"f or tube fitting
Inlet:	NPT 1/4"f , M 14×1.5 (optional)

*on request

FLOW SCHEMATIC



1 Cylinder connection
2 Coil
3 Purge outlet valve (not Type -16)
4 Pressure regulator - Single-stage
5 Upstream pressure gauge
6 Downstream pressure gauge
7 Process gas outlet shut-off valve (Type -25 only)
8 Process gas outlet
9 Relief valve
10 Purge outlet valve (not Type -16)

ORDER CODE

Type	Material	Upstream pressure	Downstream pressure	Inlet	Outlet	Contact gauge	Vent piping	Gas type
SMD 500-16	**BC**	**F**	**14**	**N14**	**CL6 BC**	**Ki**	**A**	**Gas**
SMD 500-16 SMD 500-24 SMD 500-25 300 bar Versions: SMD 530-16 SMD 530-24 SMD 530-25	BC = brass chrome-plated SS = stainless steel	F = 230 bar /3300 psi G = 315 bar /4500 psi	14 = 1 - 14 bar /15 - 200 psi 28 = 2.5 - 28 bar /35 - 400 psi 50 = 2.5 - 50 bar /35 - 720 psi 200 = 10 - 200 bar /145 -2900 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 A = with (Only in conjunction with RV not available for Type-16)	Please specify

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.