

## CYLINDER PRESSURE REGULATORS FMD 530-14/-16/-18



**Single-stage, for inert, reactive, flammable and oxidizing gases and gas mixtures, purity max. 6.0, cylinder pressure 315 bar/ 4500 psi, downstream pressure range 0.5 - 200 bar / 7 - 2900 psi**

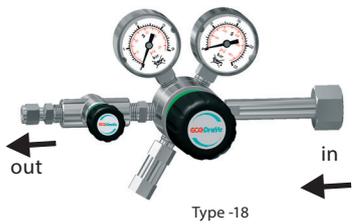
### SPECIAL FEATURES

- For 300 bar cylinders
- Diaphragm regulator
- ATEX compliant adjustment knobs



### DESCRIPTION

The FMD 530-14 consists of a cylinder connection, pressure regulator body, upstream and downstream pressure gauges, relief valve (by downstream pressure >50bar RV on request) and outlet tube fittings. The use of contact gauge (accessories) in conjunction with alarm box (accessories) facilitates the monitoring of gas reserves.



### APPLICATION

The cylinder pressure regulator series MD 530 has a broad range of uses and excellent performance.

Type-14 is the basic model for independent gas supply with 300 bar cylinder.

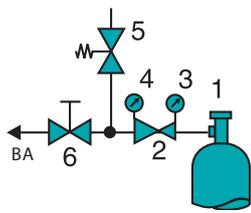
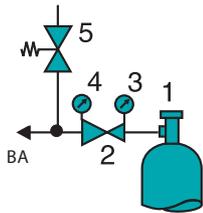
The type-16 allows shut-off/opening of the gas flow while maintaining the pressure regulator's adjustment and type-18 allows for pressure regulating as well as a finer control of gas flow.

### TECHNICAL DATA

Body:	stainless steel 316L (1.4404) specially cleaned and electro-polished or Brass
	2.0401.26 specially cleaned, nickel-plated and chrome-plated
Seat seals:	PCTFE
Body seals:	PCTFE (Stainless steel), PVDF (Brass)
Relief valve:	Outlet NPT1/4"f, for downstream pressure >50bar AV*
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. 1.5 kg (type -14), 1.8 kg (type -16/18)
Dimensions (w×h×d):	approx. 225×140×125 mm
Outlet:	NPT 1/4"f. optional tube fitting
Cylinder connections:	according to gas type, see chapter 5

\*on request

### FLOW SCHEMATIC



- 1 Cylinder connection
  - 2 Pressure regulator
  - 3 Upstream pressure gauge
  - 4 Downstream pressure gauge
  - 5 Relief valve
  - 6 Downstream shut-off valve (type -16) / regulating valve (type -18)
- BA Process gas outlet

### ORDER CODE

Type	Material	Upstream pressure	Downstream pressure	Inlet	Outlet	Contact gauge	Gas type
<b>FMD 530-14</b>	<b>BC</b>	<b>G</b>	<b>14</b>	<b>DIN</b>	<b>CL6 BC</b>	<b>Ki</b>	<b>GAS</b>
FMD 530-14	BC = brass	G = 315 bar	6 = 0.5 - 6 bar / 7 - 85 psi	DIN	0=NPT 1/4"f	0 = without	Please specify
FMD 530-16	chrome-plated	/4500 psi	14 = 1 - 14 bar/15 - 150 psi	ANSI	CL3**	Ki = with	
FMD 530-18	SS = stainless steel		28 = 2.5 - 28 bar / 35 - 400 psi	AFNOR	CL6 (standard)		
			50 = 2.5 - 50 bar/35 - 720 psi	NBN	CL 1/8"		
			200 = 10 - 200 bar	BS 341	CL 1/4"		
			/150 - 2900 psi (not Type -18)	CGA	NO6		
				NEN			
				UNI			

\*\* Outlet: CL6 = tube fitting for 6 mm outside diameter, NO6 = hose connector for 6 mm hose inside diameter. Please note the "burst rate chart" when choosing the tube fittings in chapter 5.