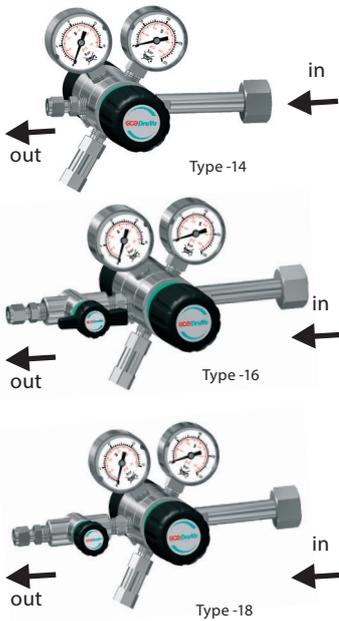


## CYLINDER PRESSURE REGULATORS FMD 522/562-14/-16/-18

**Dual-stage,  
for inert, reactive, flammable and oxidizing gases and gas mixtures,  
purity max. 6.0,  
cylinder pressure 230 bar / 3300 psi,  
FMD 522: downstream pressure range 0.2 - 3 bar abs / 3 - 45 psi abs,  
FMD 562: downstream pressure range 0.2 - 2 bar / 3 - 30 psi**



### SPECIAL FEATURES

- For low downstream pressure
- Subatmospheric-pressure regulation (FMD 522)
- Downstream pressure is virtually independent of upstream pressure due to dual-stage design
- Diaphragm valve with 90°-shut-off function (type -16) or regulating valve (type -18)
- Diaphragm regulator
- ATEX compliant adjustment knobs

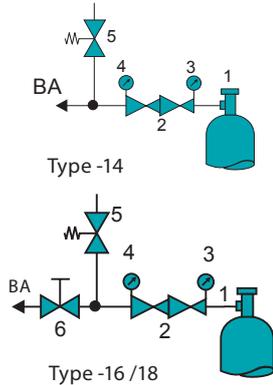
### DESCRIPTION

These pressure regulators consists of a cylinder connection, pressure regulator body, upstream and downstream pressure gauges, diaphragm shut-off valve MVA 500 (only type-16), regulating valve MVR 500 (Type -18), relief valve and outlet tube fittings. The use of contact gauge (accessories) in conjunction with alarm box (accessories) facilitates the monitoring of gas reserves.

### APPLICATION

The pressure regulator series FMD 522/562 reduces high upstream pressure to low downstream pressure: FMD 522 down to 0.2 bar absolute and is therefore suitable for subatmospheric-pressure regulation, the FMD 562 down to 0.2 bar. This type of regulator is selected according to the requirements of the downstream uses with regards to the shut-off or rather regulating of the gas stream.

### 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

### TECHNICAL DATA

Body:	stainless steel 316L (1.4404) specially cleaned and electro-polished or brass CW614 (CuZn39Pb3) specially cleaned, nickel-plated and chrome-plated
Seat seals 1st stage:	PCTFE
Seat seals 2nd stage:	Stainless steel: FFKM, (EPDM)*, Brass: EPDM, (FKM)*
Body seals:	PCTFE (Stainless steel), 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 - 1.5 bar (-15 - 40 psi) -1 - 5 bar (-15 - 75 psi) 0 - 315 bar (0 - 4500 psi)
Weight:	approx. 2.1 kg (type -14), 2.4kg (type -16/18)
Dimensions (w×h×d):	approx. 225×140×210 mm
Cylinder connections:	according to gas type, see chapter 5
Outlet:	NPT 1/4" f, optional tube fitting

\* on request

### ORDER CODE

Type	Material	Upstream pressure	Downstream pressure	Inlet	Outlet	Contact gauge	Gas type
<b>FMD 522-14</b>	<b>BC</b>	<b>F</b>	<b>2</b>	<b>DIN</b>	<b>CL6</b>	<b>Ki</b>	<b>GAS</b>
FMD 522-14	BC = brass	F = 230 bar/3300 psi	<b>FMD 522</b>	DIN	0=NPT 1/4" f	0 = without	Please
FMD 522-16	chrome-plated		2 a = 0.2 - 2 bar abs.	ANSI	CL6**	Ki = with	specify
FMD 522-18	SS = stainless		/3 - 30 psi abs.	AFNOR	CL8		
FMD 562-14	steel		3a = 0.2 - 3 bar abs.	NBN	CL 1/8"		
FMD 562-16			/3 - 45 psi abs.	BS 341	CL 1/4"		
FMD 562-18			<b>FMD 562</b>	CGA	NO6		
			1 = 0.2 - 1 bar / 3 - 15 psi	NEN			
			2 = 0.2 - 2 bar / 3 - 30 psi	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.