

CYLINDER PRESSURE REGULATORS FMD 322-14/-16/-18 - DUAL STAGE



Dual-stage,

for inert, reactive, flammable and oxidizing gases and mixtures, not suitable for acetylene, purity max. 5.0

cylinder pressure 230 bar / 3300 psi,

downstream pressure range 0.5 - 10.5 bar / 7 - 150 psi



SPECIAL FEATURES

- Downstream pressure is independent of the upstream pressure due to the dual-stage design
- Diaphragm valve (FMD 322-16 with 90° shut-off function)
- Pressure regulator with stainless steel diaphragm
- ATEX conform adjustment knob
- Gauge in safety version accordance with DIN EN 837



These pressure regulators consist of cylinder connections, pressure regulator, inlet- and outlet gauges, diaphragm shut-off valve (Type -16) regulating valve (Type -18), relief valve, tube fitting on outlet.



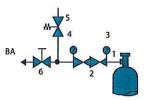
APPLICATION

DESCRIPTION

The FMD 322-14 is the base model. The FMD 322-16 permits shutting-off of the gas flow while maintaining the pressure regulator settings, the regulating valve on the FMD 322-18 enables a fine controling of the gas flow. The dual-stage pressure regulator ensures the uniformity of the downstream pressure independent of the level of the cylinder pressure.

Type -18

FLOW SCHEMATIC



- Cylinder connection
- Dual-stage pressure regulator
- 3 Upstream pressure gauge
- Downstream pressure gauge
- Relief valve
- Downstream shut-off valve (only type -16) / downstream regulating valve (only type -18)
- Process gas outlet

TECHNICAL DATA

Body: Stainless steel 316L (1.4404) specially cleaned or Brass CW614 (CuZn39Pb3)

specially cleaned

Seat seals: 1st stage: PCTFE, 2nd stage: PTFE **Body seals:** PCTFE (Stainless steel), PVDF (Brass)

Diaphragm: Stainless steel

Leakage rate: < 1×10-9 mbar l/s Helium (outboard)

< 1×10-6 mbar I/s Helium (across the seat)

Stainless steel: FKM, (EPDM, FFKM) * Relief valve seat seals:

Brass: EPDM, (FKM)

Pressure gauge range: -1 - 10 bar (-15 - 145 psi), -1 - 18 bar (-15 - 260 psi),

0 - 315 bar (0 - 4500 psi)

Weight: approx. 2.1 kg (Type -14), 2.4 kg (Type -16/18)

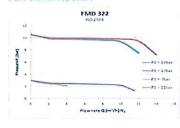
Working temperature: -25 °C to +70 °C / -13 °F to 158 °F

see below Performance data:

Basic design aspects: see page 37 Cylinder connection: according to gas type

on request

PERFORMANCE DATA



DIMENSIONS





ORDER CODE Type FMD 322-14	Material BC	Upstream pressure F	Downstream pressure 6	Inlet DIN	Outlet CL6	Contact gauge Ki	Relief Valve AV	Gas type - క్ర్ GAS
FMD 322-14 FMD 322-16 FMD 322-18	BC = brass Cr plated SS = stainless steel	F = 230 bar /3300 psi	6 = 0.5 - 6 bar / 7 - 85 psi 10 = 1 - 10.5 bar / 15 - 150 psi	DIN ANSI/ AFNOR/ NBN/BS 341/ CGA/NEN/UNI	N14=NPT 1/4"f CL6/ CL8** CL 1/8" /CL 1/4" NO6	Ki = with	0 = without A = with	ubject to changes specified to changes with the control of the con

^{** =} 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.