

CYLINDER PRESSURE REGULATORS FMD 300-14/-18



FMD 300-14

Single-stage, for inert gases and gas mixtures and oxygen, purity to 5.0, cylinder pressure 230 bar downstream pressure range 0.2 - 12 bar / 3- 175 psi

SPECIAL FEATURES

- Clear position indicator
- Easy to operate
- Inlet on back side
- Integrated relief valve
- Diaphragm material Hastelloy
- Seat seals in PCTFE
- FMD 300-18: with regulating valve

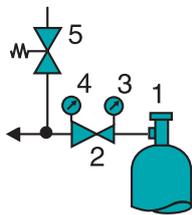
DESCRIPTION

The FMD 300-14 consists of manual cylinder connection with knurled nut (supplied), pressure regulator, upstream pressure gauge, downstream pressure gauge, relief valve and screw connections. The FMD 300-18 has in addition a regulating valve at the outlet. The customary hose fittings and couplings are available as accessories (see ordering information). The inlet on the back end allows for particularly space saving installation.

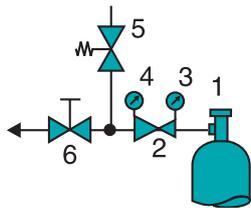
APPLICATION

The cylinder pressure regulator series FMD 300 is attractive for its high flow rate values and good regulating characteristics. The FMD 300-14 is used anywhere where gas is directly taken from the cylinder and greater flexibility for the end user when choosing a location for use.

FLOW SCHEMATIC



FMD 300-14



FMD 300-18

- 1 Cylinder connection
- 2 Pressure regulator
- 3 Upstream pressure gauge
- 4 Downstream pressure gauge
- 5 Relief valve
- 6 Downstream regulating valve (Type -18)

TECHNICAL DATA

Body:	Brass, 2.0401.26 specially cleaned, nickel-plated and chrome-plated
Seat seals:	PCTFE
Relief valve:	triggered at 1.4- to 1.8- times nominal pressure
Purity:	≤ 5.0
Leakage rate:	< 1×10 ⁻⁷ mbar l/s Helium (outboard) < 1×10 ⁻⁶ mbar l/s Helium (across the seat)
Working temperature:	-25 °C to +70 °C / -13 °F to 158 °F
Filter at inlet:	50 µm
Weight:	approx. 1.12 kg (FMD 300-14) / 1.34 kg (FMD 300-18)
Dimensions (wxhxd):	approx. 140×120×115 mm (FMD 300 without cylinder connection)
Gauge:	0 - 3, 0 - 10, 0 - 16 bar and 0 - 315 bar
Performance data:	see chapter 5
Inlet:	Cylinder connection as per DIN 477, see chapter 5
Outlet:	Tube fitting 6 mm (standard)

ORDER CODE

Type	Material	Upstream pressure	Downstream pressure connection	Cylinder-conn.	Outlet	Gas type
FMD 300-14	BC	F	C	DIN	CL6	GAS
FMD 300-14	BC = brass	F = 230 bar	C = 1 - 6 bar	DIN	CL3*	Please specify
FMD 300-18	chrome-plated		D = 1 - 12 bar		CL6 CL 1/8" NO4 NO8	

* 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.