



CYLINDER REGULATOR **FMD PRIOR**

EDITION 1/2013

Double-stage, for inert gases and gas mixtures. Gas purity up to 5.0. Inlet pressure 230 bar / 3300 psi and outlet pressure range 0,05 - 10 bar / 0,7- 145 psi.

The PRIOR is a double-stage cylinder regulator with the first stage preset and a second adjustable one to achieve a very constant pressure level independent of the inlet pressure level. This regulator is equipped with second stage bellows, which ensures high quality, outstanding performance and consistent outlet pressure.

APPLICATION

The cylinder regulator PRIOR is designed to combine excellent pressure stability, flow rate range, safety and gas tightness. Its ergonomic design makes it easy to operate and to set the required outlet pressure. The impressive performance qualifies this regulator especially for laboratory, laser, analytic and other applications, where precise and reliable pressure levels are needed.

SPECIAL FEATURES

- Superior downstream pressure adjustment
- Hand tightening nut for cylinder connection
- Double-stage version for constant outlet pressure
- Precise pressure level due to metal bellows
- 100 % helium leak-tested

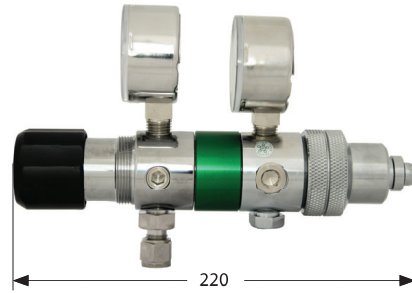


FMD PRIOR

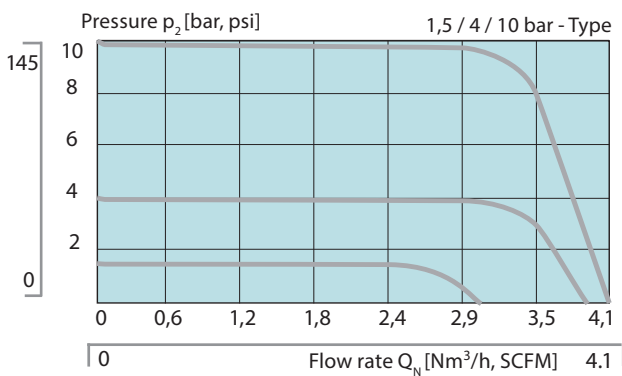
TECHNICAL DATA

| | |
|------------------------|--|
| Housing: | Brass chrome-plated |
| Inlet Pressure (P1): | 200 bar (2900 psi) |
| Regulating Range (P2): | 10 bar (145 psi), 4 bar (60 psi); 1,5 bar (22 psi) |
| Flow max (Q): | 5 Nm ³ /h (2,9 SCFM) |
| Seat stage 1: | PCTFE |
| Seat stage 2: | FKM |
| Diaphragm stage 1: | Stainless steel |
| Bellow stage 2: | Phospor bronze |
| Filter: | Stainless steel |
| Leakage rate: | 10 ⁻⁷ (cm ³ bar/s He) |
| Working temperature: | -20 °C to +50 °C / -4 °F to 122 °F |
| Filter at inlet: | 50 µm |
| Weight: | 1.35 kg |
| Outlet: | Tube fitting |

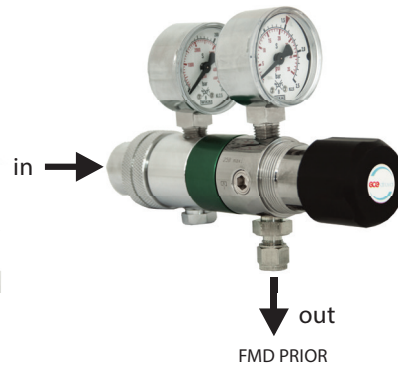
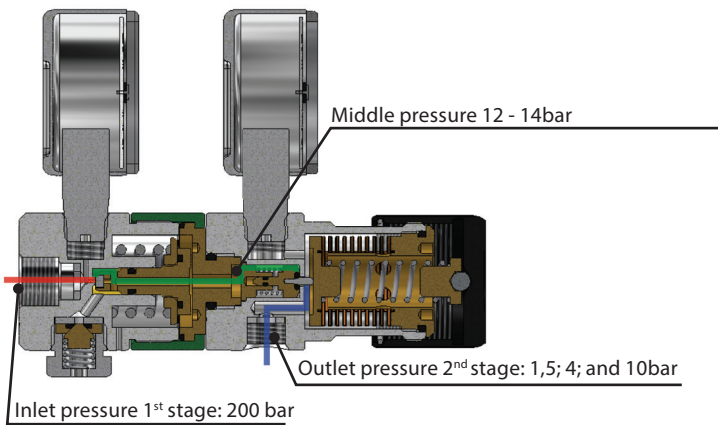
DIMENSIONS



FLOW SCHEMATIC



DOUBLE - STAGE PRESSURE REDUCTION HOW IT WORKS



ORDER CODE

| Type | Material | Upstream pressure | Outlet pressure | Cylinder conn. | Outlet | Contact pres. gauge | Gas type |
|------------------|--------------------------|----------------------|--|----------------|-------------|--------------------------|----------------|
| FMD PRIOR | BC | F | 10 | DIN | CL6 | Ki | GAS |
| FMD PRIOR | BC = brass chrome-plated | F = 200 bar/2900 psi | 1,5 = 0,05-1,5 bar/0,7-22 psi 4 = 0,1-4 bar/1,5-60 psi 10 = 0,5-10 bar/7-145 psi | DIN AFNOR | CL6* CL8 | 0 = without Ki = with | Please specify |

* CL6 = tube fitting with outer diameter 6 mm.

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Gas Control Equipment

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