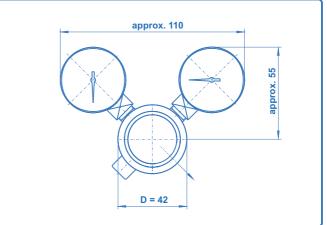
Cylinder regulator FM45







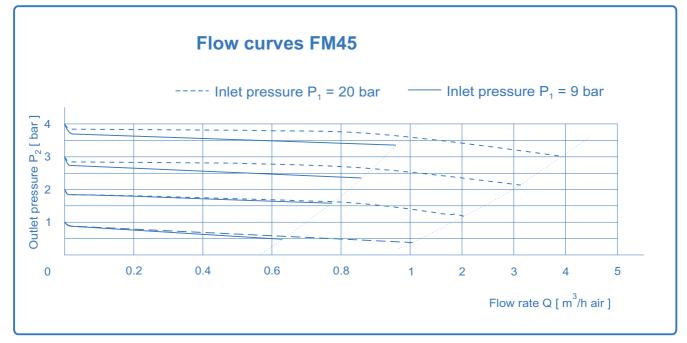
Product features

- Single-stage cylinder pressure regulator with compensated main valve for improved performance
- Simple and safe gas withdrawal from gas cylinders, for non-corrosive gases and gas mixtures up to quality 6.0
- Compensated main valve for significantly improved outlet pressure accuracy similar to a dual-stage regulator
- · Compact design, light weight
- · New laboratory-style design
- Manual cylinder connection (for non-metal-to-metal sealing cylinder connections)
- · Suitable for ECD-applications
- · High control accuracy
- · Integrated relief valve
- · Hastelloy-diaphragm
- Minimised gas-wetted surface

Technical data

Inlet pressure P₁	max. 230 bar
	300 bar on request
Outlet pressure P ₂	0.1 - 10 bar
Materials	
Body:	chrome-plated brass
Diaphragm:	Hastelloy C276
Valve seat:	PCTFE 1)
Cylinder connection	acc. to international
	standards and gas type
Outlet connector	1/8"-NPT female
Temperature range	-30°C to +60°C
Leak rate (to atmosphere)) 10⁻ ⁸ mbar l/sec He
Weight	520 g

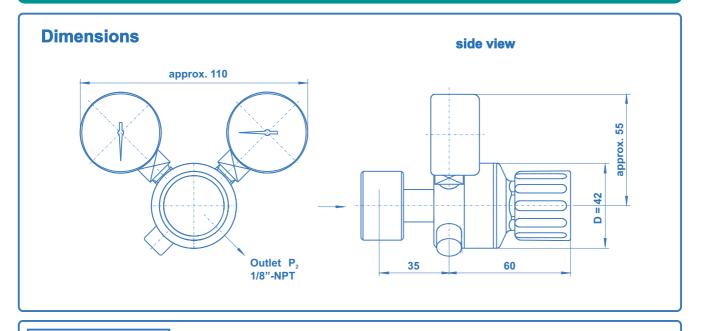
Other valve seat materials such as PVDF upon request





Cylinder regulator FM45





Additional configurations upon request!

Ordering information: FM45 series cylinder regulators

FM45 - 230 - 4 - DIN477-1 - H₂

Inlet pressure P₁

230 - max. 230 bar

Outlet pressure P,

1,5 - up to 1.5 bar 4 - up to 4 bar

10 - up to 10 bar

Type of gas

Please specify type of gas (for selection of valve seat material)

Cylinder connection

Detailed description of the cylinder connection including the relevant standard and the number of the connection (e.g. DIN477-1)

Specifications

- SPECTROLAB components guarantee maximum quality by using high grade materials and a quality assurance program acc. to ISO 9001.
- All components which come into contact with the medium are cleaned in an ultrasonic cleaning system (CFC-free) with the special cleaning process SPECTRO-CLEAN® and are then baked out.
- SPECTROLAB components undergo a 100% function- and Helium-leak-test.

Pressure indication

 All pressure regulators are equipped with pressure gauges for inlet- and outlet pressure indication.

Important note regarding component selection

- In order to assure safe operation it is essential to take the configuration of the whole gas supply system into account when selecting a pressure regulator.
- The function of the regulator, the compatibility of the materials, correlating temperature ranges, correct installation, operation and maintenance in accordance with the relevant regulations are the responsibility of the system designer and the user.

