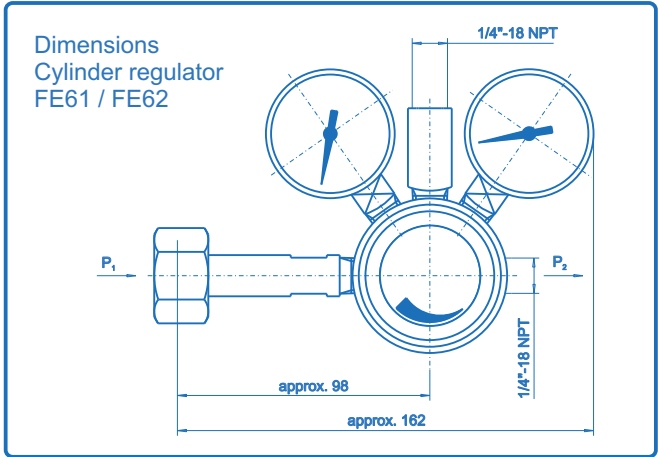


Cylinder regulator FE 61/ FE 62



Cylinder regulator FE 61



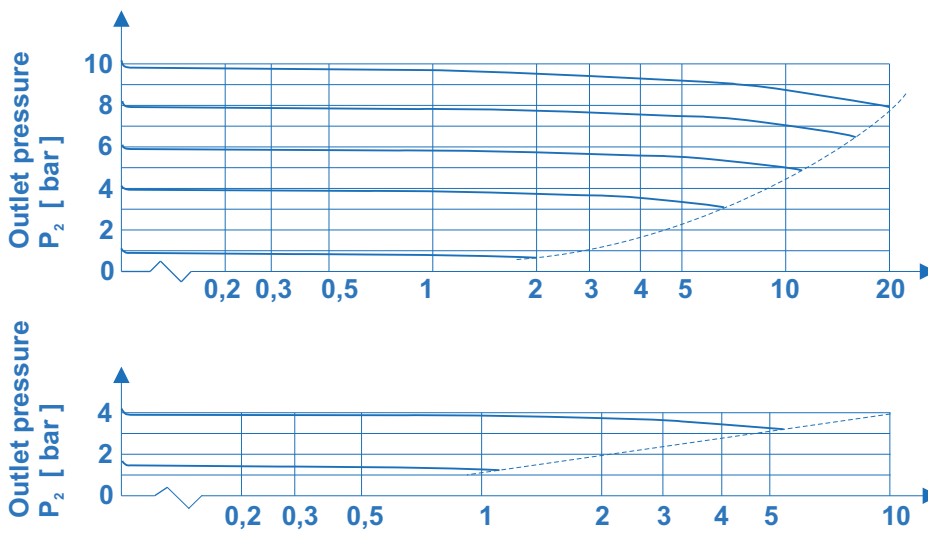
Product features

- Single- and dual-stage cylinder pressure regulators
- Simple and safe gas withdrawal from gas cylinders, for corrosive gases and gas mixtures up to quality 6.0
- For corrosive gases and gas mixtures with >1% corrosive components we recommend the use of a purge device (FE 61 SP)
- New laboratory-style design
- Ergonomically designed
- Filter at the regulator inlet
- Suitable for ECD-applications
- High control accuracy
- Relief valve
- Available with purge device FE61SP
- Simple outlet pressure limitation by handwheel
- Powder-coated bonnet
- Piston type regulators for outlet pressure >20 bar

Technical data

Inlet pressure P_1	max. 200 bar
Max. Outlet pressure P_2	1,5/4/10/20/50/100 bar
Flow rate Q	see flow curves
Materials	
Body:	SS 1.4404 (SS 316 L)
Diaphragms:	Hastelloy C276
Valve seat:	PCTFE (Kel-F)
Piston ($P_2 > 20$ bar):	SS 1.4404 (SS 316 L)
Inlet gasket:	PCTFE
Cylinder connection acc. to international standards and gas type	
Outlet connector	1/4"-18 NPT-F
Weight	FE61: 1,7 kg (2,1kg FE61/SP) FE62: 1,9 kg
Leak rate	10^{-8} mbarl/s He

Flow curves FE 61 / FE 62



FE 61
Inlet pressure
 $P_1 = 21$ bar

Flow rate
Q [m³/h air]

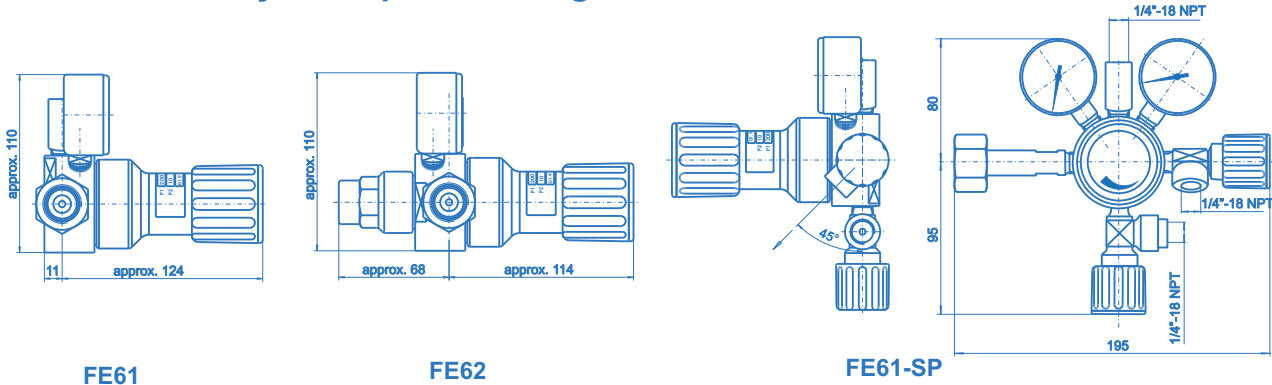
FE 62
Inlet pressure
 $P_1 = 9$ bar

Flow rate
Q [m³/h air]

Cylinder regulator FE 61/ FE 62



Dimensions: cylinder pressure regulators FE61 / FE62 / FE61-SP



Additional configurations upon request!

Ordering information:
Cylinder regulators FE 61/62

Please specify gas type with your order (valve seat material)

FE 61 - 200 - 10 - DIN 8 - HCI

Type

- 61 - single-stage regulator
- 62 - dual-stage regulator
- 61 SP - single-stage regulator with purge valve

Inlet pressure P_1

- 200 - max. 200 bar
- Other inlet pressure values upon request

Outlet pressure P_2

- | | |
|------------------------------------|--|
| 1,5 - up to 1,5 bar (2-stage only) | 20 - up to 20 bar (1-stage) |
| 4 - up to 4 bar (1-1/2-stage) | 50 - up to 50 bar (1-stage, piston type regulator) |
| 10 - up to 10 bar (1-1/2-stage) | 100 - up to 100 bar (1-stage, piston type regulator) |

Gas type

Please specify gas type!

Cylinder connection

Detailed description of the cylinder connection including the relevant standard and the number of the connection (e.g. BS no. 3)

Specifications

- SPECTROCEM - 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.
- SPECTROCEM - components undergo a 100% 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 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.