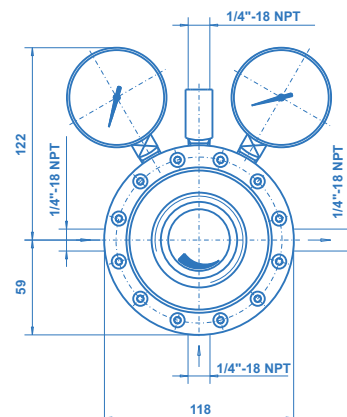# Cylinder pressure regulator FE 121

spectrocem

Cylinder pressure regulator
FE 121 SP
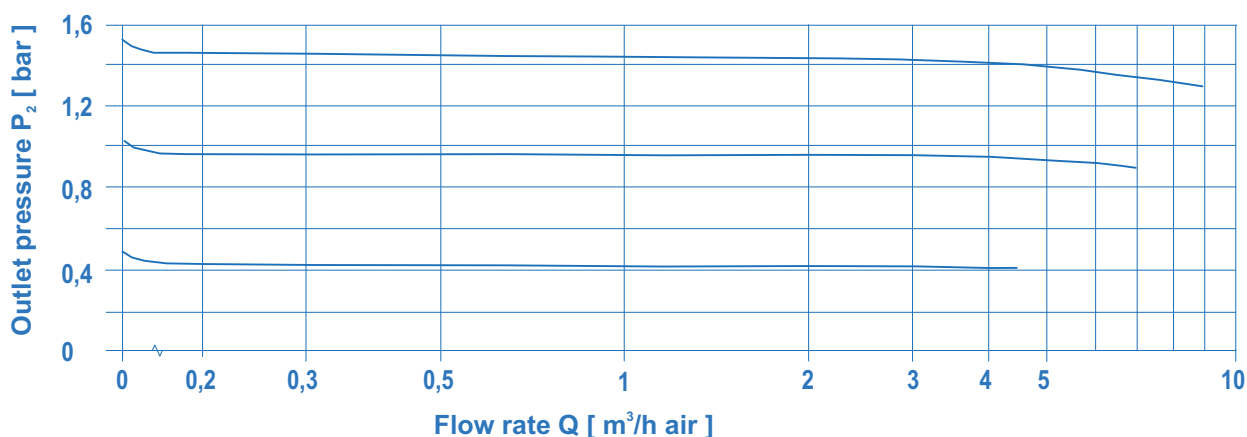
Dimensions
FE 121

Product features

- Single-stage cylinder pressure regulator
- Simple and safe gas withdrawal from gas cylinders, for corrosive gases and gas mixtures up to quality 6.0 up to 25 bar vapour pressure
- For corrosive gases and gas mixtures with >1% corrosive components we recommend the use of a purging device (FE 121 SP)
- New laboratory-style design
- Ergonomically designed
- Filter at the regulator inlet
- High control accuracy due to large diaphragm
- Integrated relief valve
- Available with purge device FE 121 SP
- Simple outlet pressure limitation by handwheel
- Powder-coated bonnet

Technical data

Inlet pressure P_1	max. 25 bar
Outlet pressure P_2	0,1 - 1,5 bar (higher values upon request)
Flow rate Q	max. 9 m^3/h ^{1})
Materials	
Body:	SS 1.4404 (SS 316 L)
Diaphragm:	Hastelloy C276
Valve seat:	PCTFE (Kel-F)
Inlet gasket:	PCTFE
Cylinder connector	acc. to international standards and gas type
Outlet connector	1/4"-18 NPT-F
Leak rate	10^{-8} mbarl/s He
Weight	2,1 kg

^{1}) see flow curves

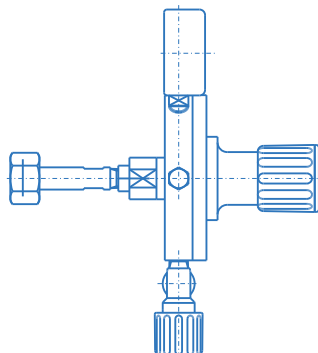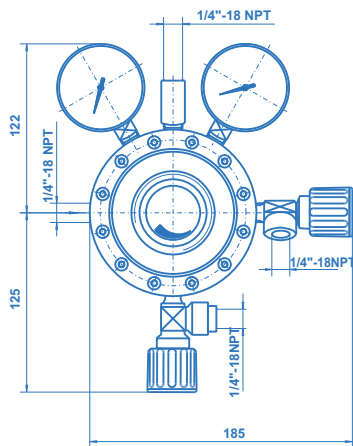## Flow curves cylinder pressure regulator FE 121 - inlet pressure P_1 = 4 bar

spectron

Cylinder pressure regulator FE 121

spectrocem

Cylinder pressure regulator FE 121 SP

1/4"-18 NPT

122

1/4"-18 NPT

125

1/4"-18NPT

1/4"-18NPT

185

Side view FE 121

approx. 115   approx. 100
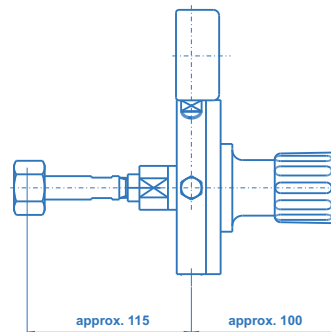
Additional configurations upon request!

Ordering information:
Cylinder pressure regulators FE 121

FE **121** - **25** - **1,5** - **DIN 6** - **NH$_3$**

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

Type

121   - single-stage without purge device
121 SP - single-stage with purge device

Inlet pressure P$_1$

25   - max. 25 bar
others upon request

Outlet pressure P$_2$

1,5 - up to 1,5 bar
others upon request

Gas type

Please specify gas type!
(valve seat material)

Cylinder connection

Detailed description of the cylinder connection including the relevant standard and the connection number
(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.

spectron