# Cylinder pressure regulator FE51-SP





#### **Specifications**

- SPECTROCEM-components guarantee maximum quality by using high grade materials and a quality assurance program acc. to ISO 9001.
- All parts in the gas wetted surface area are cleaned in an ultrasonic cleaning system (CFC-free) with the special Cleaning process SPECTRO-CLEAN® and then baked out.
- SPECTROCEM-components undergo a 100% function- and Helium-leak-test.

#### **Product features**

- Stainless steel cylinder pressure regulator with purge valves for process gas or purge gas purging
- Pressure regulator with very stable outlet pressure and anti-vibration device
- For corrosive, toxic gases and gas mixtures with corrosive components up to quality 6.0
- Purge valves in 3 different configurations available
- · Suitable for inlet pressures up to 200 bar
- Max. outlet pressures 1.5 up to 200 bar \*
- Integrated relief valve up to 100 bar
- · Metal-to-metal seal to atmosphere
- Suitable for ECD-applications
- Pressure regulator can be evacuated
- · Inlet filter
- · Approved for use with oxygen
- Simple outlet pressure limitation by handwheel
- Easy to install
- · New laboratory-style design
  - \* 1.5 / 4 bar only for inlet pressure ≤ 50 bar

#### Technical data

<u>recrimical data</u>	
Туре	single-stage
Inlet pressure P <sub>1</sub>	max. 200 bar
Outlet pressure P <sub>2</sub>	1,5 / 4 bar ( $P_1 \le 50$ bar) 10 / 20 / 50 / 100 / 200 bar ( $P_1 > 50$ bar)
Materials Body regulator, relief valve: Valve seat:	SS 316L (SS 1.4404) PVDF

Diaphragm: Hastelloy C276

Filter: Stainless steel 1.4404

In- and outlets 1/4" NPT-F

Temperature range -30°C to +60°C

Leak rate (to atmosphere) 10-8 mbar l/s He

(via seat) 10<sup>-6</sup> mbar l/s He

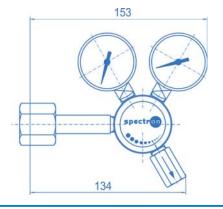
Pressure gauge Safety pressure gauges ISO5171/KI1.6/NG50

Flow capacity 0,15

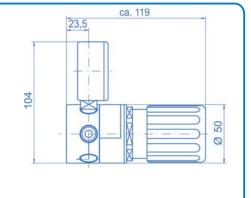
Weight FE51-SP2A ca. 2,0 kg

FE51-SP2 ca. 1,9 kg FE51-SP3 ca. 2,2 kg

#### **Dimensions FE51**



Side view





# **Cylinder pressure regulator FE51-SP**



#### Ordering information:

Cylinder pressure regulator FE51-SP

FE51 - SP3 - 200 - 10 - DIN 7 - SO2

#### Configuration

**SP2A** 2 purge valves in the outlet: waste gas + process gas

SP2 2 purge valves:

purge gas in the inlet process gas in the outlet

SP3 3 purge valves:

purge gas in the inlet waste gas in the outlet process gas in the outlet

#### Inlet pressure P

10 - max. 10 bar

20 - max. 20 bar

50 - max. 50 bar

**100** - max. 100 bar **200** - max. 200 bar

### Type of gas

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

#### Cylinder connection

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

### Outlet pressure P,

**1,5** - up to 1,5 bar  $(P_1 \le 50 \text{ bar})$ 

**4** - up to 4 bar (P ≤ 50 bar)

10 - up to 10 bar

20 - up to 20 bar

**50** - up to 50 bar

100 - up to 100 bar

200 - up to 200 bar

## FE51-SP2A **FE51-SP2 FE51-SP3** Purge gas purging Process gas purging Inert gas purging without waste gas valve with waste gas valve ca.231 ca.231 ca.207 process process waste gas waste gas purge gas purge gas

