

Pressure control panel SP4

spectro **pur**



SP4-SBE



SP4-SR

Product features

- Pressure control panel for flammable gases and ultra high purity gases from grade 6.0
- SBE: purge- and connection block or SR: pigtail and single valves with
 - manual waste gas valve (HPV)
 - manual process gas valve (HPI)
 - manual purge gas valve (PGI)
- Check valve to prevent process gas from flowing back into the purge gas line
- Pre-filter
- Pressure regulator with tied diaphragm
- Burst disc
- Stainless steel valves for manual or automatic (pneumatic) shut-off
- Minimized purge volume (SBE)
- Electro-polished surfaces (gas wetted)
- Clearly legible handwheel position indication (on/off)
- 100 % Helium leak tested
- Assembly in clean room class ISO 5.0
- Modular design with many options

Technical data

Operating pressure	max. 300 bar
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Materials

Body:	Stainless steel 1.4404
Diaphragms:	Hastelloy C276
Other gas wetted parts:	Stainless steel 1.4404
Sealings	
51 ($P_1 \leq 50$ bar) or	
2. stage 53:	PTFE
51 ($P_1 > 50$ bar) or	
1. stage 53 and valves:	PCTFE or PVDF

Surface roughness (gas wetted areas)	$R_{a,max} \leq 0.25 \mu m$ $R_{a,Avg} \leq 0.18 \mu m$
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Temperature range	-20°C to +60°C
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Leak rate

to atmosphere:	$\leq 10^{-9}$ mbar l/s He
via valve seat:	$\leq 10^{-6}$ mbar l/s He

c_v-value	$c_v = 0.24$ ($k_v = 0.2$)
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Weight	ca. 8 kg
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In-/outlet connectors

- Cylinder connection (process gas inlet)
- VCR-female (waste gas, process gas outlet)
- VCR-male (purge gas)

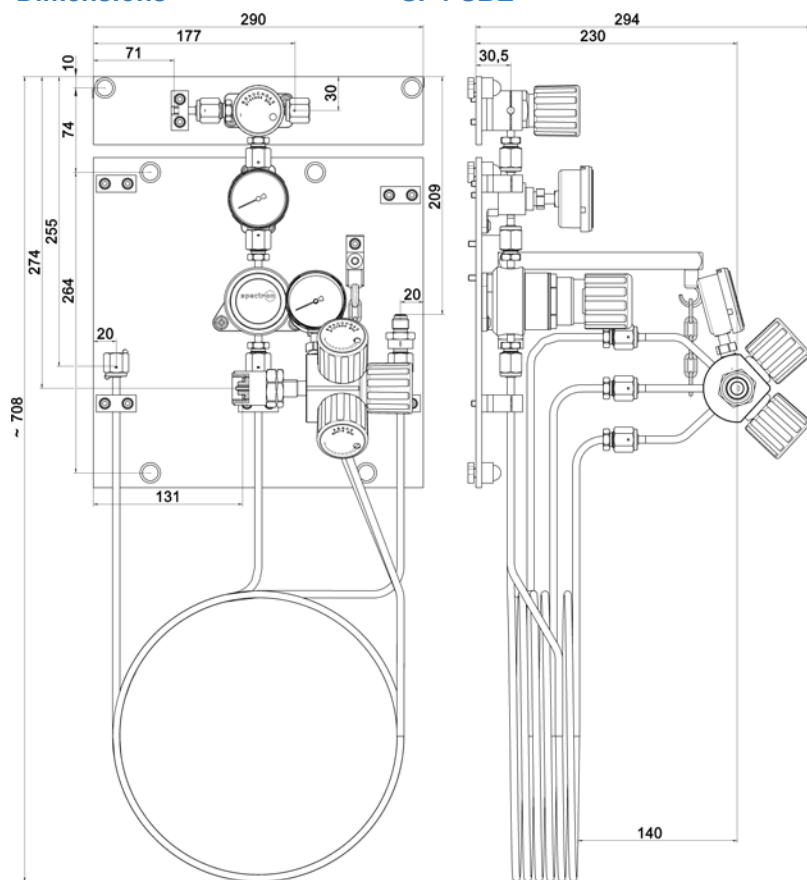
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Dimensions

SP4-SBE

SP4-SR



Ordering information: Pressure control panel SP4

SP4 - 51 - SBE - H-PN200-H - 200 - 10 - M - M - Norm - Gas

Pressure regulator*

0	w/o regulator upon request
51	1-stage pressure regulator
53	2-stage pressure regulator

Connection

SBE	purge- and connection block
SR	pigtails + single valves

Valves

HPV	H / PN25/100/200/300
HPI	H / PN25/100/200/300
PGI	H / PN25/100/200/300

Inlet pressure P_1^*

10	max. 10 bar
20	max. 20 bar
50	max. 50 bar
100	max. 100 bar
200	max. 200 bar
300	max. 300 bar

Outlet pressure indication

M	pressure gauge
K	contact pressure gauge
PT	pressure transmitter

Inlet pressure indication

M	pressure gauge
K	contact pressure gauge
PT	pressure transmitter

Outlet pressure P_2^*

1.5	max. 1.5 bar
4	max. 4 bar
10	max. 10 bar

* 51 $P_1 \leq 50 \text{ bar} \rightarrow P_2: 1.5 / 4 \text{ bar}$
 $P_1 > 50 \text{ bar} \rightarrow P_2: 10 \text{ bar}$

53 $P_1 \geq 50 \text{ bar}$