

Pressure control panel SP4



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
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)	$R_{a,max} \leq 0.25 \mu\text{m}$ $R_{a,Avg} \leq 0.18 \mu\text{m}$
Temperature range	-20°C to +60°C
Leak rate	
to atmosphere:	$\leq 10^{-9}$ mbar l/s He
via valve seat:	$\leq 10^{-6}$ mbar l/s He
c_v-value	$c_v = 0.24$ ($k_v = 0.2$)
Weight	ca. 8 kg
In-/outlet connectors	
• Cylinder connection (process gas inlet)	
• VCR-female (waste gas, process gas outlet)	
• VCR-male (purge gas)	

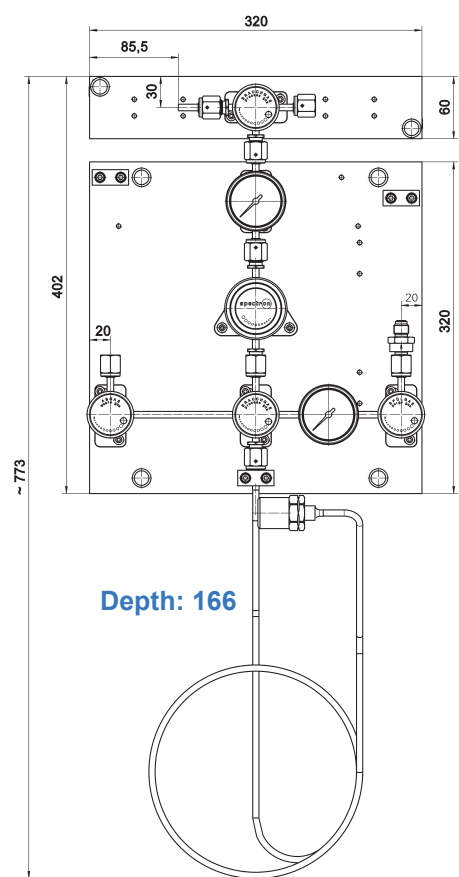
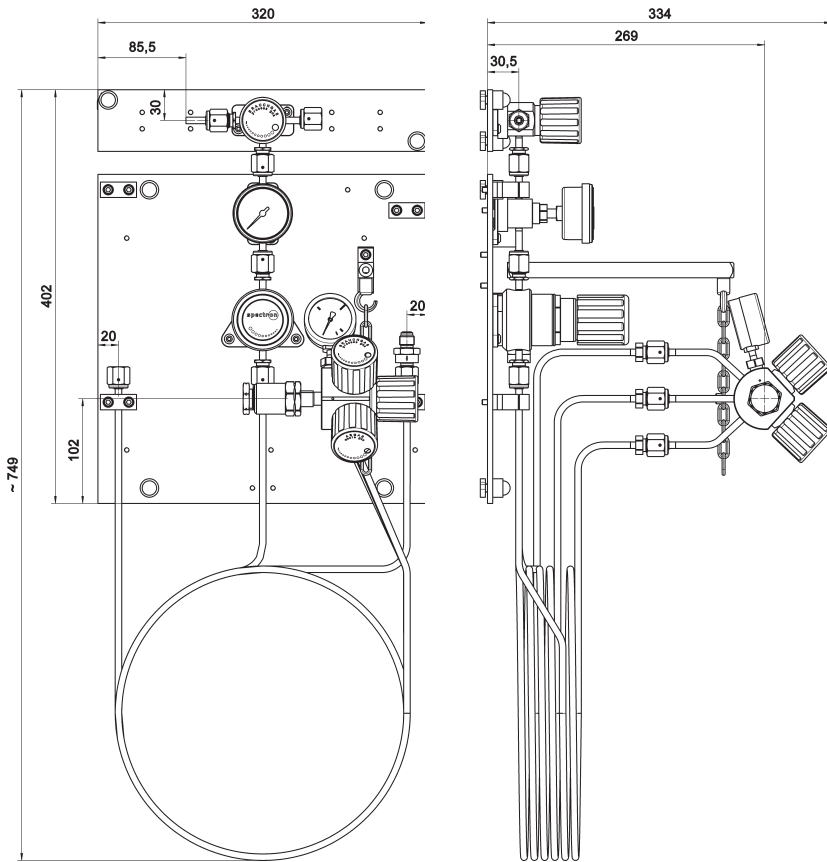
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Dimensions

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 pigtailed + 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 $P_1 \geq 50 \text{ bar}$