

Pressure control panel SP3

spectro pur



SP3-SR

Product features

- Pressure control panel for inert gases and ultra high purity gases from grade 6.0
- SR: pigtail and single valves with
 - manual waste gas valve (HPV)
 - pneumatic process gas valve (HPI)
- Pre-filter
- Pressure regulator with tied diaphragm
- Burst disc
- Stainless steel valves for manual or automatic (pneumatic) shut-off
- 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	$R_{a,max} \leq 0.25 \mu\text{m}$
(gas wetted areas)	$R_{a,Avg} \leq 0.18 \mu\text{m}$
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. 6 kg

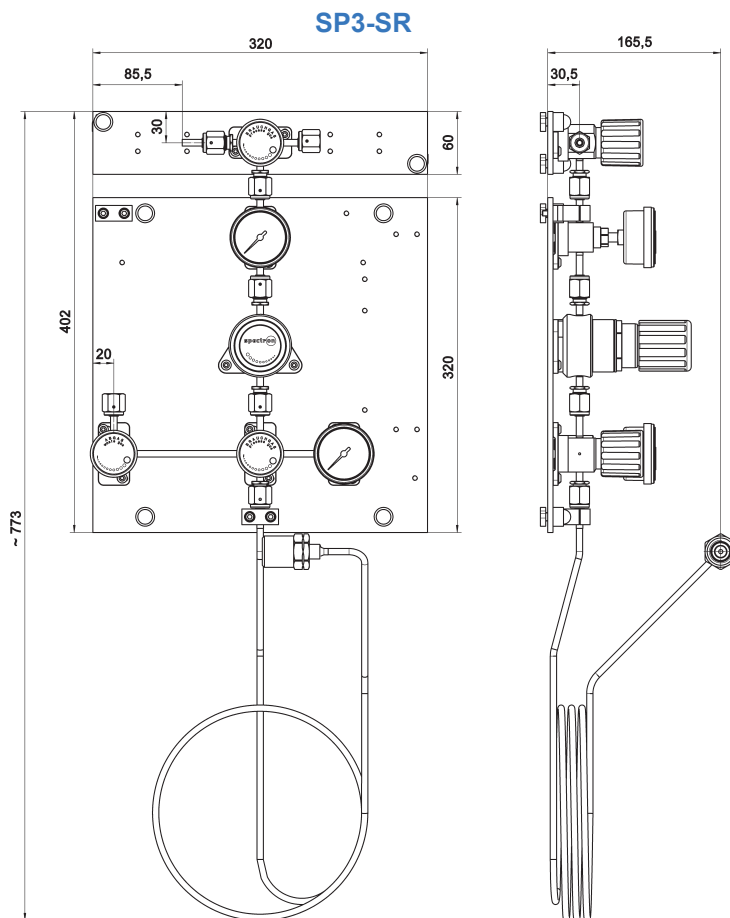
In-/outlet connectors

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

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Dimensions



Ordering information: Pressure control panel SP3

SP3 - 51 - SR - H-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

- SR** pigtails + single valves

Valves

- HPV** H / PN25/100/200/300
- HPI** 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
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- 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** $P_1 \geq 50 \text{ bar}$