

# Pressure control panel SP6



## Product features

- Pressure control panel for hazardous 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)
  - pneumatic 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 with burst disc monitoring
- Leak test port for leak test or vacuum
- 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

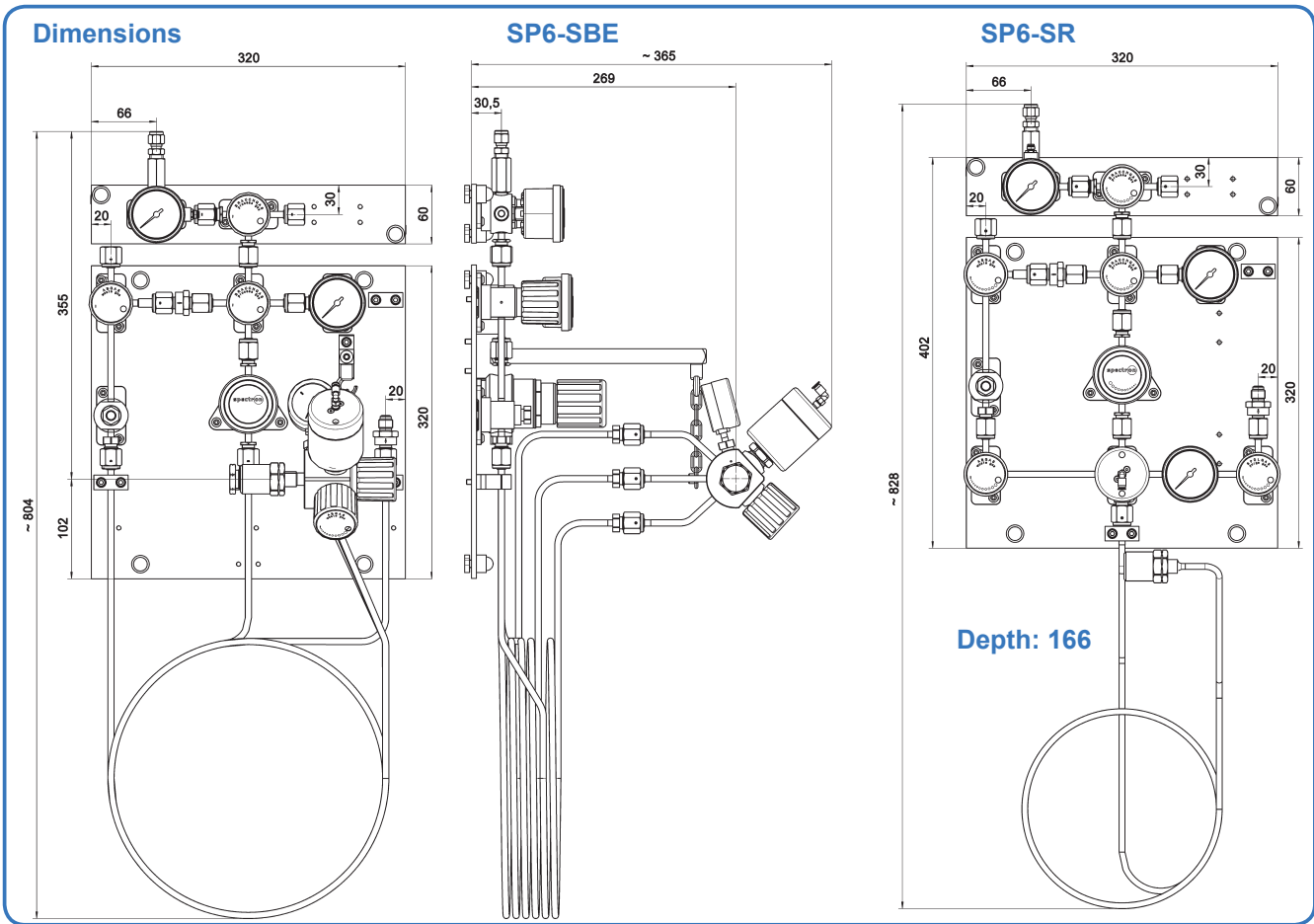
## Technical data

<b>Operating pressure</b>	max. 300 bar
<b>Materials</b>	
Body:	Stainless steel 1.4404
Diaphragms:	Hastelloy C276
Other gas wetted parts:	Stainless steel 1.4404
<b>Sealings</b>	
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
<b>Surface roughness</b> (gas wetted areas)	$R_{a,max} \leq 0.25 \mu\text{m}$ $R_{a,Avg} \leq 0.18 \mu\text{m}$
<b>Temperature range</b>	-20°C to +60°C
<b>Leak rate</b>	
to atmosphere:	$\leq 10^{-9}$ mbar l/s He
via valve seat:	$\leq 10^{-6}$ mbar l/s He
<b><math>c_v</math>-value</b>	$c_v = 0.24$ ( $k_v = 0.2$ )
<b>Weight</b>	ca. 10 kg

## In-/outlet connectors

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

# Pressure control panel SP6



## Ordering information: Pressure control panel SP6

### SP6 - 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  $P_1 \geq 50 \text{ bar}$