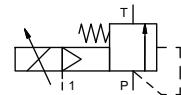


## pressure limitation valve

### type SPB-H 15



control valve proportional	externally controlled
pressure range	PN 5-120 bar
orifice	DN 15 mm
connection	thread
function	stepless pressure regulation bypass version



 Above stated body materials refer to the valve port connections that get in contact with the media only!

design	externally controlled with spring return						
body materials	<table> <tr> <td>①</td> <td>④</td> </tr> <tr> <td>② steel, galvanized</td> <td>⑤</td> </tr> <tr> <td>③</td> <td>⑥</td> </tr> </table>	①	④	② steel, galvanized	⑤	③	⑥
①	④						
② steel, galvanized	⑤						
③	⑥						
valve seat	metal on metal						
seal materials	FPM, PTFE						

#### details needed for main valve

- orifice
- port
- pressure regulating range
- flow rate
- media
- media temperature
- ambient temperature

#### details needed for proportional valve

- nominal voltage
- actuation pressure range min/max

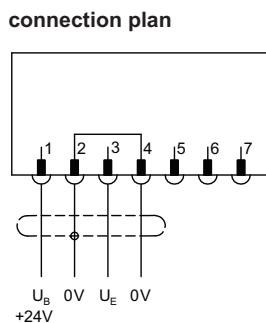
general specifications		options
ports	SPB	threads G 1
function		SAE port DIN ISO 6162
pressure regulation range	bar	stepless regulation
flow rate	m³/h	5-120
media		6,0
		liquid - highly viscous - contaminated
abrasive media		
flow direction	P $\Rightarrow$ T	as marked
settling time	ms	< 900
media temperature	°C	0 to +60
ambient temperature	°C	0 to +50
approvals		
mounting		mounting holes
weight	kg	2,7
additional equipment		actuation pressure gauge

electrical specifications		options
nominal voltage	U <sub>B</sub>	DC 24 V (max. residual ripple 10 %)
current consumption	DC	< 0,7 A
control signals	U <sub>E</sub>	0-10 V (R <sub>E</sub> 10 kΩ)
protection	IP65 (P54)	acc. DIN 40050
energized duty rating	ED	100 % (observe the connection conditions accordingly)
connection		plug with 7 contacts / wire diameter 6-8 mm

pneumatic specifications		options
actuation pressure range	bar	see actuation pressure-diagram
compressed air		DIN ISO 8573-1 grade of compressed air quality 5/4/3
control		by 3/2 way proportional valve
actuator ports	1	G 1/8

 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.



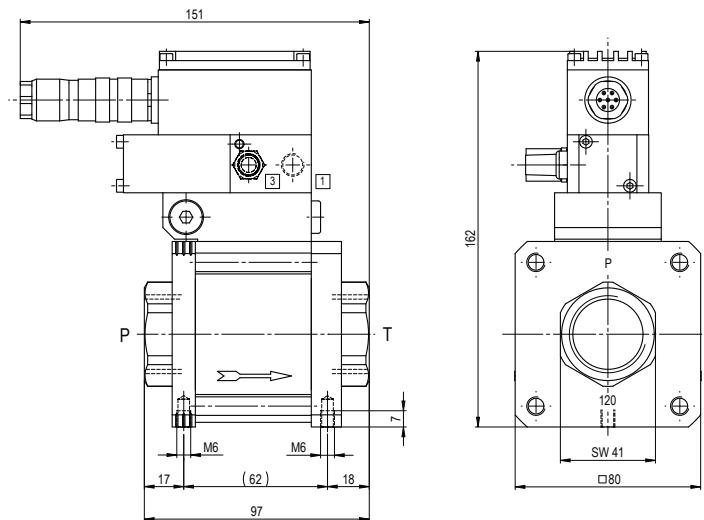
#### connection conditions

When supplying the electrical set point signal to the proportional valve, the actuating air must already be present. (see actuation pressure-diagram).

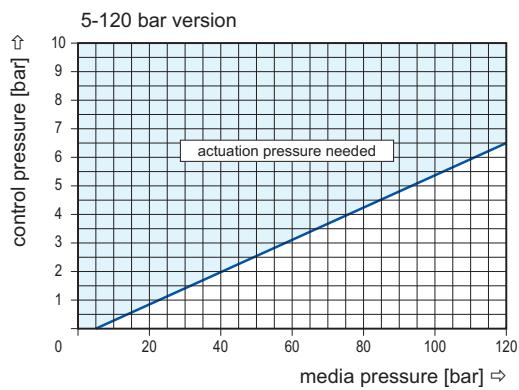
#### position of installation

arbitrarily, but regulator not downwards.

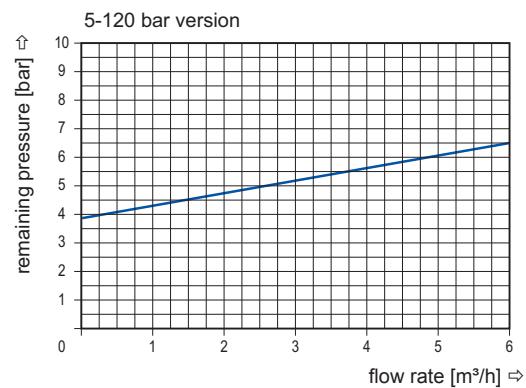
# type SPB-H 15



actuation pressure-diagram



pressureless circulation mode



Sound creation during low pressure circulation mode and flow  $Q = 6 \text{ m}^3/\text{h}$  ca. 70 dbA