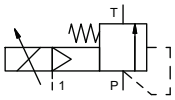
pressure limitation valve
type SPB-H 32

control valve proportional **externally controlled**
pressure range PN 5-120 bar
orifice DN 32 mm
connection thread
function stepless pressure regulation bypass version



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

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

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 1/2	SAE port DIN ISO 6162
function		stepless regulation	
pressure regulation range	bar	5-120	
flow rate	m³/h	14,4	
media		liquid - highly viscous - contaminated	
abrasive media			
flow direction	P ⇨ 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	8,4	
additional equipment			

electrical specifications

			options
nominal voltage	U_B	DC 24 V (max. residual ripple 10 %)	
current consumption	DC	< 0,7 A	
control signals	U_E	0-10 V (R_E 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	

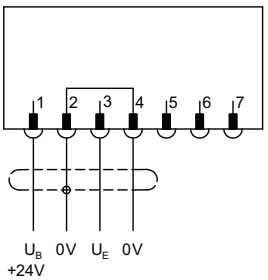
pneumatic specifications

			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 plan



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

arbitrarly, but regulator not downwards.

- specifications not highlighted are standard
  specifications highlighted in grey are optional

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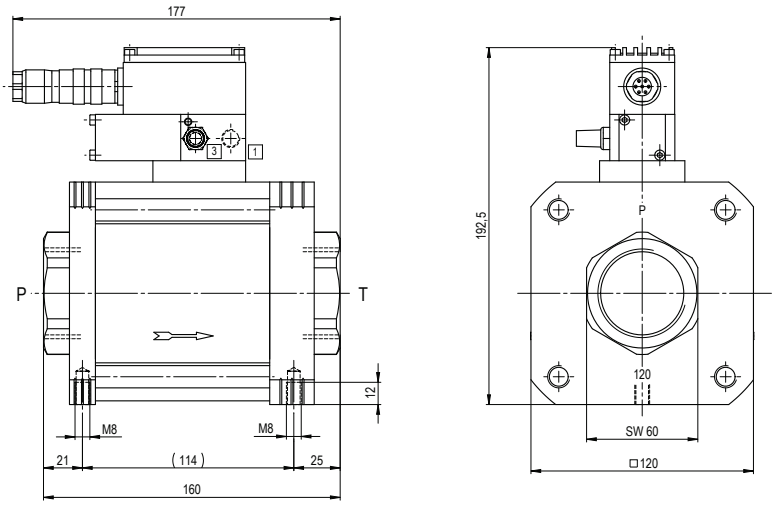
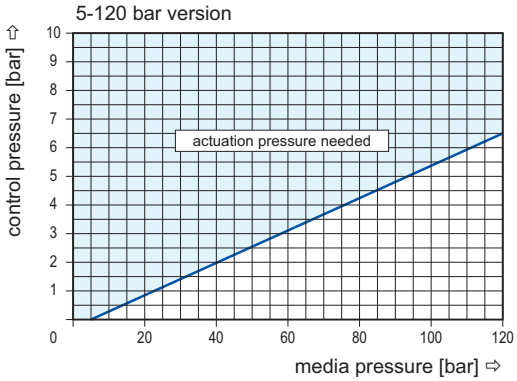
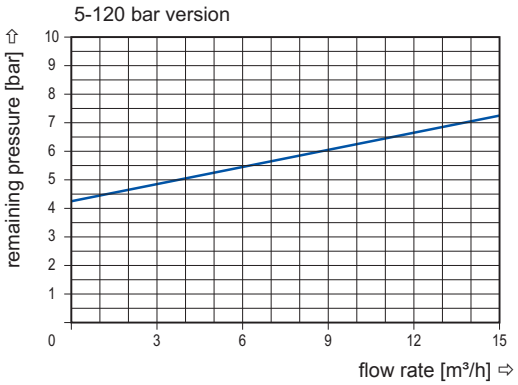


actuation pressure-diagram



pressureless circulation mode



Sound creation during low pressure circulation mode and flow Q= 14,4 m³/h ca. 70 dbA