

pressure limitation valve

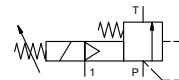
type HPB-S 32

3-HPB-S 32

valve type with pilot valve



control valve manual	externally controlled
pressure range	PN 5-64 bar
orifice	DN 32 mm
connection	thread
function	manual stepless pressure regulation



 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 pneumatic actuation

- nominal voltage
- type of protection
- actuation pressure range min/max

general specifications		options
ports	HPB	threads G 1 1/2
function		SAE port DIN ISO 6162
pressure regulation range	bar	stepless regulation
	5-64	
flow rate	m³/h	5-64
	24,0	
media		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	8,3
additional equipment		security valve
electrical specifications		options
nominal voltage	U _n	DC 24 V
	U _n	AC 230 V 50 Hz
power consumption	DC	4,8 W
	AC	pick up 11,0 VA holding 8,5 VA
protection	IP65 (P54)	acc. DIN 40050
energized duty rating	ED	100%
connection		plug acc. DIN EN 175301-803 form B, 3 positions x90° / wire diameter 6-8 mm
optional	M12x1	connector acc. DESINA connector acc. VDMA
additional equipment		illuminated plug with varistor
max. temperature	media	60°C
	ambient	50°C
explosion proof	E Ex e II T5	nominal voltage U _n DC 24 V 3,25 W
		power consumption AC 230 V 50 Hz 2,90 W

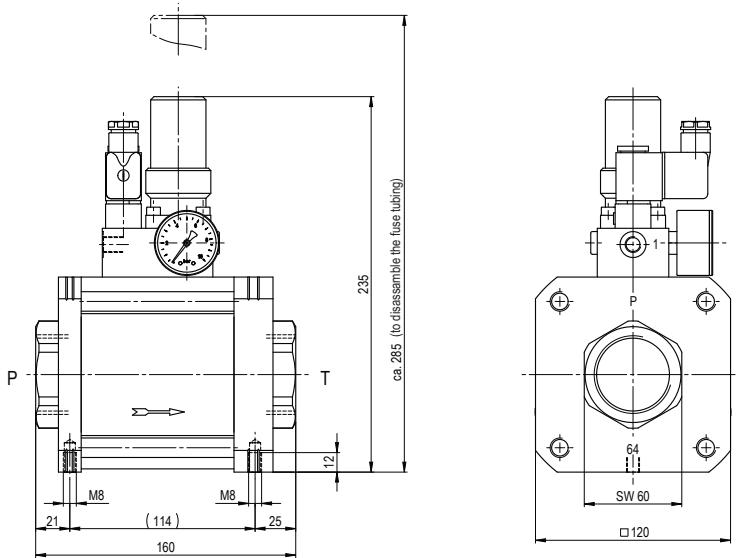
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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.

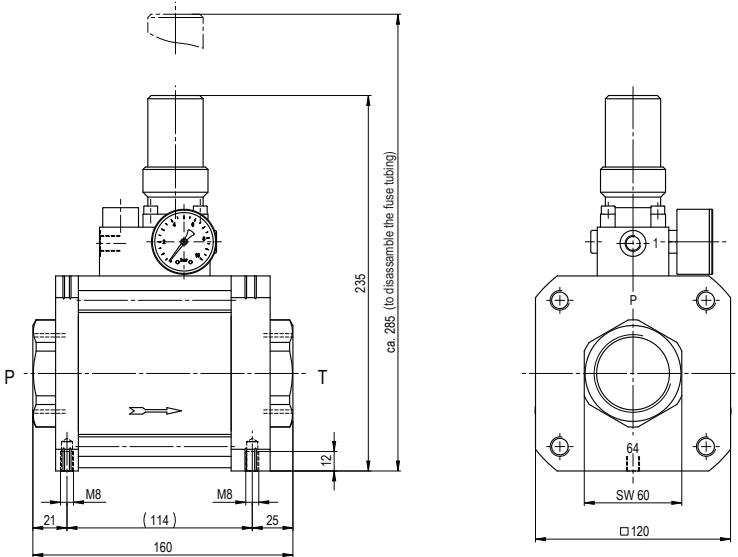
pneumatic specifications		options
actuation pressure range	bar	see actuation pressure-diagram
compressed air		DIN ISO 8573-1 grade of compressed air quality 5/4/3
control		preferably 3/2 way pilot valve during low pressure circulation mode
actuator ports	1	G 1/8

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

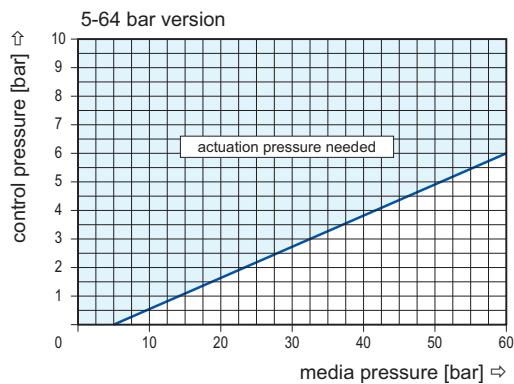
type 3-HPB-S 32



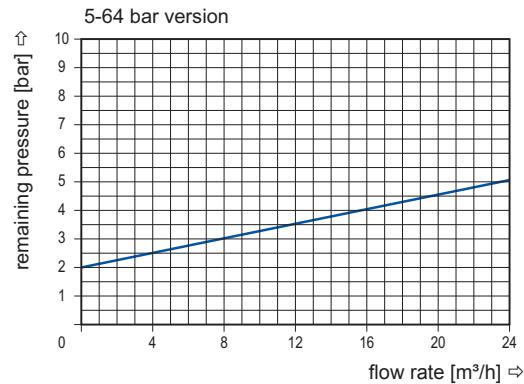
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actuation pressure-diagram



pressureless circulation mode



Sound creation during low pressure circulation mode and flow $Q = 24 \text{ m}^3/\text{h}$ ca. 70 dBa