pressure limitation valve

type HPB-S 50

3-HPB-S 50

valve type with pilot valve



control valve manuel externally controlled

pressure range PN 5-64 bar orifice DN 50 mm connection thread

> function manual stepless

pressure regulation



E8.45-11/2009

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 (1) 4 steel, nickel plated

2 (5) (3) (6)

valve seat metal on metal seal materials FPM, PTFE

details needed for main valve

- orifice
- 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

ports function pressure regulation range Kv value

> abrasive media flow direction operating time media temperature ambient temperature approvals mounting weight additional equipment

general specifications threads G 1 1/2

stepless regulation 5-64 bar 48,0 emulsions - oils

as marked < 900 0 to +60 mounting holes 11,9

security valve

connector acc. VDMA

options

options

SAE connection DIN ISO 6162

nominal voltage

power consumption

protection energized duty rating connection

additional equipment optional max. temperature

actuation pressure range

explosion proof

air consumption

actuator ports

electrical specifications options

24 V special voltage upon request 230 V 50 Hz AC special voltage upon request 2,5 W DC pick up 11,0 VA holding 8,5 VA IP 65 (P54) acc. DIN 40 050 ED

plug acc. DIN EN 175301-803 form B illuminated plug with varistor connector acc. DESINA M12x1

3 positions x 90° / wire diameter 6-8 mm media 60°C ambient 50°C EEx m II T5 nominal voltage Un direct current 24 V alternating current 230 V 50 Hz 2,90 W power consumption

pneumatic specifications

control

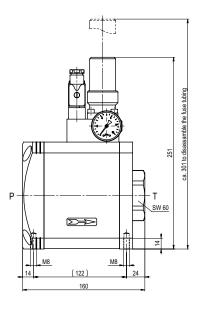
r	see actuation pressure-diagram
	DIN ISO 8573-1 grade of compressed air quality 5/4/3
	preferably 3/2-way pilot valve during low pressure circulation mode
	G 1/8

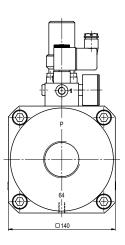
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

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.

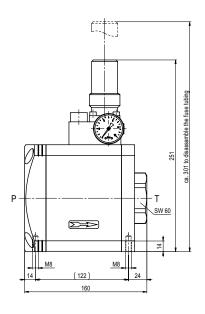
specifications not highlighted are standard specifications highlighted in grey are optional

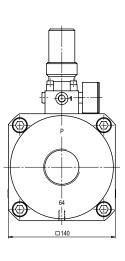
type **3-HPB-S 50**



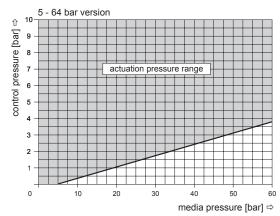


type HPB-S 50

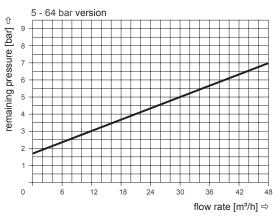




actuation pressure-diagram



pressureless circulation mode



Sound creation during low pressure circulation mode and flow Q=48 $\,\mathrm{m}^3/\mathrm{h}$: ca. 74 dbA