

pressure limitation valve

type SPB-S 50



control valve proportional externally controlled

pressure range PN 5-64 bar orifice DN 50 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!

externally controlled with spring return

body materials (1)

4) steel, nickel plated

2 (3) (5) 6

options

SAE port DIN ISO 6162

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 ports threads G 1 1/2 stepless regulation function pressure regulation range bar 5-64

media

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

P⇒T as marked < 900 0 to +60 °C 0 to +50 mounting holes kg

emulsions - oils

electrical specifications

options

nominal voltage current consumption control signals protection energized duty rating

Uв	DC 24 V (max. residual ripple 10 %)
DC	< 0,7 A
UE	0-10 V (Rε 10 KΩ)
IP65 (P54)	acc. DIN 40050
ED	100 % (observe the connection conditions accordingly)
	plug with 7 contacts / wire diameter 6-8 mm

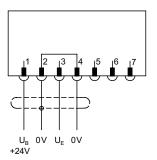
pneumatic specifications

options

actuation pressure range compressed air control actuator ports

bar	see actuation pressure-diagram
	DIN ISO 8573-1 grade of compressed air quality 5/4/3
	by 3/2 way proportional valve
1	G 1/8

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

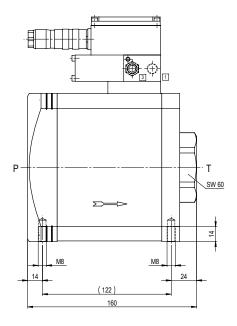
arbitrarly, but regulator not downwards.

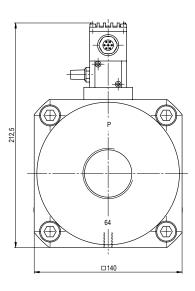
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

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.

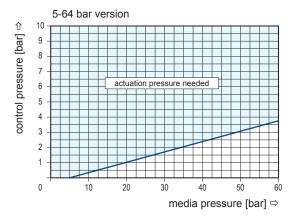
specifications not highlighted are standard specifications highlighted in grey are optional

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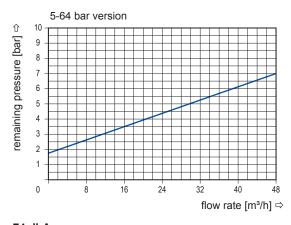




actuation pressure-diagram



pressureless circulation mode



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