pressure limitation valve

type SPB-S 15



control valve proportional externally controlled

pressure range PN 5-64 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 body materials externally controlled with spring return

(1)

4 (5) 6

3

② steel, galvanized

seal materials FPM, PTFE

valve seat metal on metal

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

function pressure regulation range flow rate media

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

SPB	threads G 1	SAE port DIN ISO 6162
	stepless regulation	
bar	5-64	

as marked < 900 0 to +60 °C 0 to +50 mounting holes actuation pressure gauge

liquid - highly viscous - contaminated

electrical specifications

pneumatic specifications

options

options

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

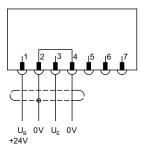
actuation pressure range compressed air control actuator ports

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



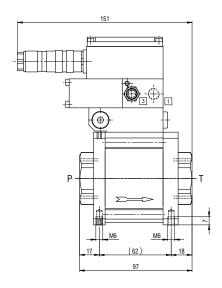
connection conditions

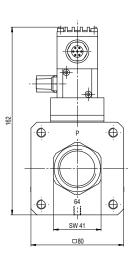
When supplying the electrical set point signal to the proportional valve, the actuating air must already be present. (see actuation pressure-diagram).

position of installation

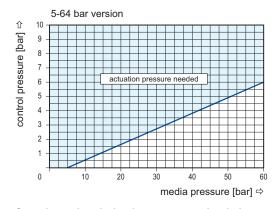
arbitrarly, but regulator not downwards.

type SPB-S 15

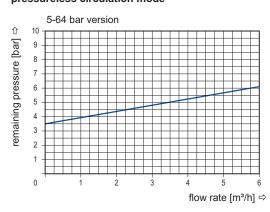




actuation pressure-diagram



pressureless circulation mode



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