pressure limitation valve

type SPB-S 50



control valve proportional externally controlled

connection thread function stepless

pressure range PN 5-64 bar orifice DN 50 mm

> pressure regulation bypass version



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 3

SPB

(5) 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 proportional valve

- nominal voltage
- actuation pressure range min/max

ports

function pressure regulation range flow rate media

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

general specifications	options
3	

options	
CAE part DIA	ı

48.0 emulsions - oils as marked

threads G 1 1/2

stepless regulation

< 900 0 to +60 °C 0 to +50 mounting holes kg

electrical specifications

options

nominal voltage current consumption control signals protection energized duty rating

UB	DC 24 V (max. residual ripple 10 %)
DC	< 0,7 A
UE	0-10 V (Re 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 actuation pressure range

0	p	ti	0	n	S

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

compressed air control actuator ports

connection plan

U_B 0V U_E 0V

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.

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.

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

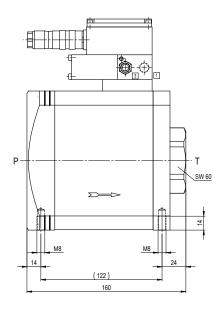
regards to the design, sealing materials and

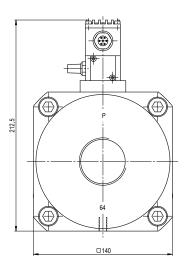
If order or application specifications are

characteristics.

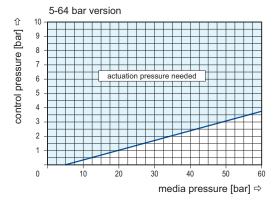
specifications not highlighted are standard specifications highlighted in grey are optional

type SPB-S 50

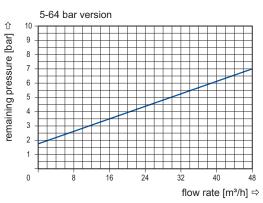




actuation pressure-diagram



pressureless circulation mode



Sound creation during low pressure circulation mode and flow Q= 48 m³/h ca. 74 dbA