# coax® data sheet - pressure limitation valve

## type SPB-S 15



#### 03/2022



Above stated body materials refer to the valve port connections that get in contact with the media only!

#### 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
- setpoint signal

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. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

control valve proportional externally controlled

pressure range

orifice

connection function

PN 5-63 bar DN 15 mm

thread

stepless pressure regulation



operating principle

body material

valve seat

seal materials

externally controlled with spring return

② steel galvanized

bar

m³/h

P⇒T

threads G 1

as marked

< 900 0 to +60

0 to +50

stepless pressure regulation

liquid - highly viscous - contaminated

DC 24 V (max. residual ripple 10 %)

metal on metal FPM, PTFE

general specifications

options

4

(5) (6)

ports

function pressure regulation range

flow rate

abrasive media

flow direction settling time media temperature

mounting

weight additional equipment

ambient temperature approvals

kg 2,7

mounting holes

electrical specifications

actuation pressure gauge

options

SAE connections DIN ISO 6162

nominal voltage current consumption control signals

connection

compressed air

control actuator ports

protection energized duty rating

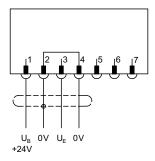
pneumatic specifications

actuation pressure range

DC 0-10 V (Rε 100 KΩ) 4-20 mA (RE 250 KΩ) acc. DIN 40050 IP65 (P54) 100 % (observe the connection conditions accordingly) plug with 7 contacts / wire diameter 6-8 mm

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

### 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).

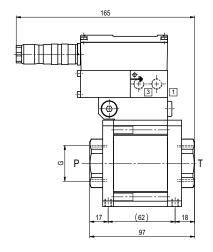
#### position of installation

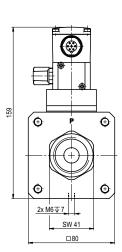
arbitrary, but regulator not downwards.

specifications not highlighted are standard specifications highlighted in grey are optional

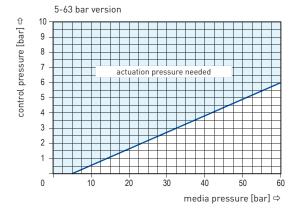
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### actuation pressure-diagram



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

### pressureless circulation mode

