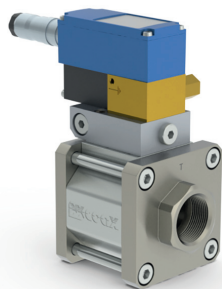


03/2022



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.

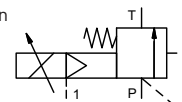
If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

### control valve proportional

**pressure range**  
**orifice**  
**connection**  
**function**

### externally controlled

PN 5-63 bar  
DN 15 mm  
thread  
stepless pressure regulation



### operating principle

#### body material

externally controlled with spring return

- |                    |   |
|--------------------|---|
| ①                  | ④ |
| ② steel galvanized | ⑤ |
| ③                  | ⑥ |

#### valve seat

metal on metal

#### seal materials

FPM, PTFE

#### ports

**function**  
**pressure regulation range**  
**flow rate**  
**media**

### general specifications

SPB threads G 1  
stepless pressure regulation  
bar 5-63  
m³/h 6,0  
liquid - highly viscous - contaminated

### options

SAE connections DIN ISO 6162

#### abrasive media

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

P ⇌ T as marked  
ms < 900  
°C 0 to +60  
°C 0 to +50

mounting holes  
kg 2,7

actuation pressure gauge

#### nominal voltage

#### current consumption

#### control signals

#### protection

#### energized duty rating

#### connection

### electrical specifications

U<sub>B</sub> DC 24 V (max. residual ripple 10 %)  
DC < 0,7 A  
U<sub>E</sub> 0-10 V (RE 100 KΩ) 4-20 mA (RE 250 KΩ)  
IP65 (P54) acc. DIN 40050  
ED 100 % (observe the connection conditions accordingly)  
plug with 7 contacts / wire diameter 6-8 mm

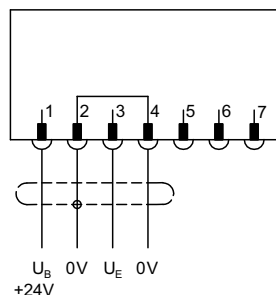
### options

### pneumatic specifications

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

### options

### connection plan /



### connection conditions

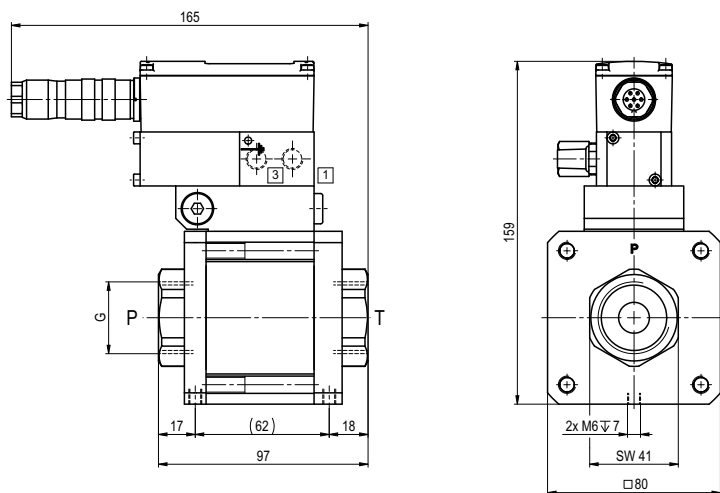
When supplying the electrical set point signal to the proportional valve, the actuating air must already be present. (see actuation pressure-diagram).

### position of installation

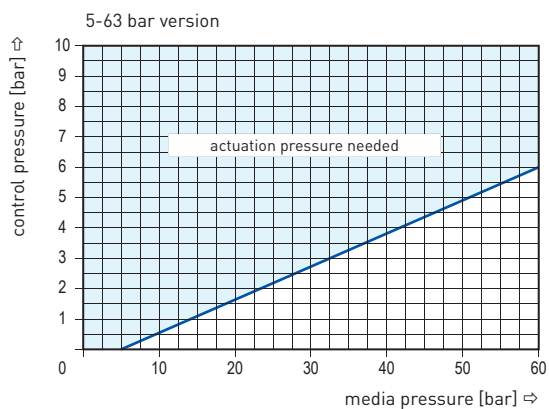
arbitrary, but regulator not downwards.

# coax® data sheet - pressure limitation valve

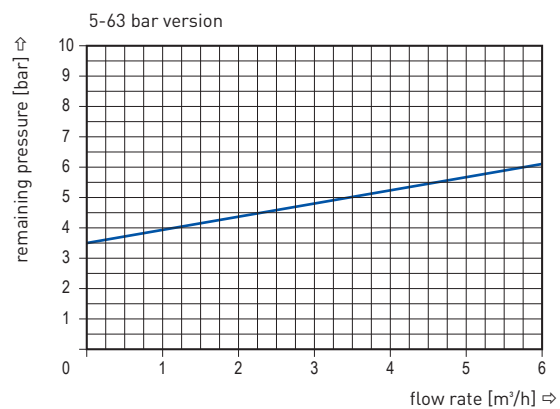
type SPB-S 15



## 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