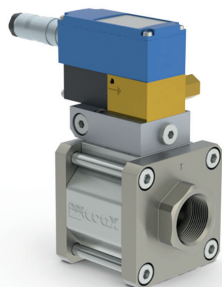


03/2022



⚠ 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

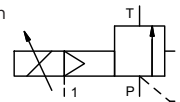
details needed for proportional valve

- 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	PN 1-16 bar
orifice	DN 15 mm
connection	thread
function	stepless pressure regulation



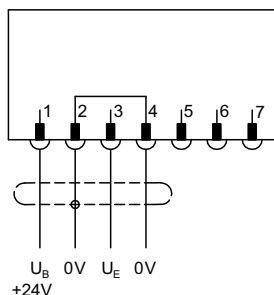
operating principle	externally controlled without spring return	
body material	①	④
	② steel galvanized	⑤
	③	⑥
valve seat	metal on metal	
seal materials	FPM, PTFE	

	general specifications	options
ports	SPB threads G 1	SAE connections DIN ISO 6162
function	stepless pressure regulation	
pressure regulation range	bar 1-16	
flow rate	m³/h 6,0	
media	liquid - highly viscous - contaminated	
abrasive media		
flow direction	P → T as marked	
settling time	ms < 900	
media temperature	°C 0 to +60	
ambient temperature	°C 0 to +50	
approvals		
mounting	mounting holes	
weight	kg 2,7	
additional equipment		actuation pressure gauge

	electrical specifications	options
nominal voltage	U _B DC 24 V (max. residual ripple 10 %)	
current consumption	DC < 0,7 A	
control signals	U _E 0-10 V (R _E 100 KΩ)	4-20 mA (R _E 250 KΩ)
protection	IP65 (P54)	acc. DIN 40050
energized duty rating	ED 100 % (observe the connection conditions accordingly)	
connection	plug with 7 contacts / wire diameter 6-8 mm	

	pneumatic specifications	options
actuation pressure range	bar see actuation pressure-diagram	
compressed air	DIN ISO 8573-1 grade of compressed air quality 5/4/3	
control	via 3/2 way proportional valve	
actuator ports	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).

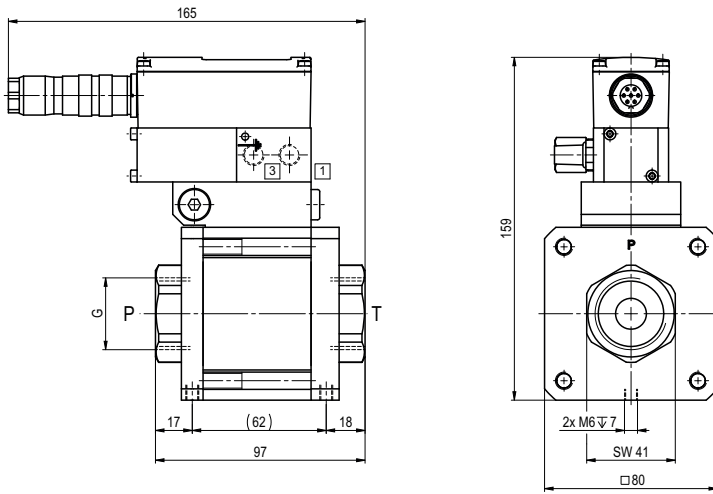
position of installation

arbitrary, but regulator not downwards.

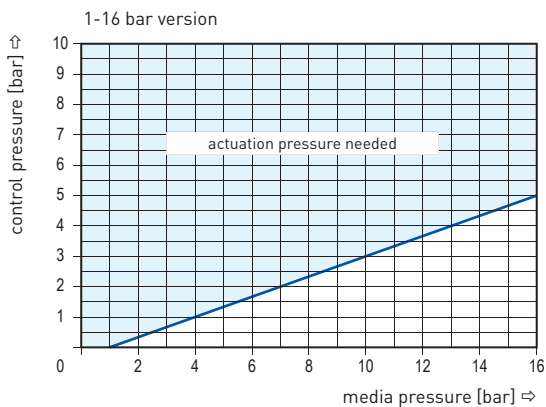
■ specifications not highlighted are standard
 ■ specifications highlighted in grey are optional

coax® data sheet - pressure limitation valve

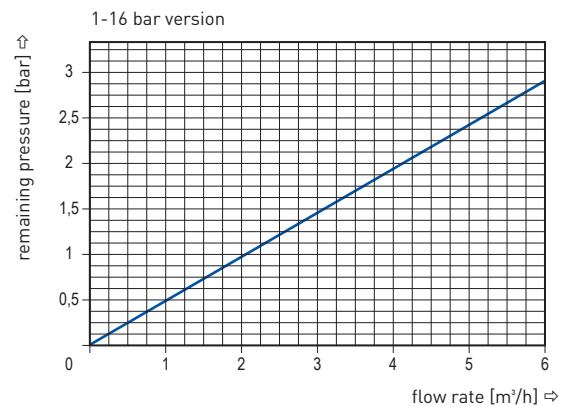
type SPB-N 15



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