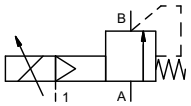
coax® data sheet - pressure reduction valve

type SPP-3 15 PC

03/2022

control valve proportional	**externally controlled**
pressure range	PN 0-100 bar
orifice	DN 15 mm
connection	thread/cartridge
function	stepless pressure regulation



operating principle	externally controlled with spring return	
body material	⓪ aluminium	③
	① brass	④
	②	⑥ stainless steel
valve seat	synthetic materials on metal / metal on metal	
seal materials	EPDM, PU, HNBR	FPM

⚠ 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

general specifications			**options**
ports	SPP-3	with valve body thread G 1/2 - G 3/4	without valve body
function		stepless pressure regulation	
pressure regulation range	bar	5-100	
flow rate	m³/h	max. 6,0	
media		gaseous - liquid - highly viscous - contaminated	
abrasive media			available
flow direction	A ⇨ B	as marked	
settling time	ms	< 200	
media temperature	°C	0 to +60	
ambient temperature	°C	0 to +50	
approvals			
mounting			mounting holes
weight	kg	4,8	3,7
additional equipment			

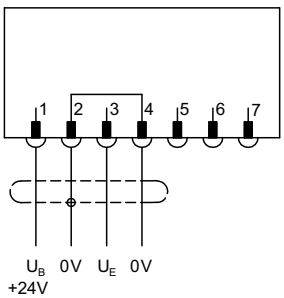
electrical specifications			**options**
nominal voltage	U_B	DC 24 V (max. residual ripple 10 %)	
current consumption	DC	< 0,7 A	
control signals	U_E	0-10 V (R_E 100 KΩ)	4-20 mA (RE 250 KΩ)
protection	IP65 (P54)	acc. DIN 40050	
energized duty rating	ED	100 % (observe the connection conditions accordingly)	
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	

⚠ 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.

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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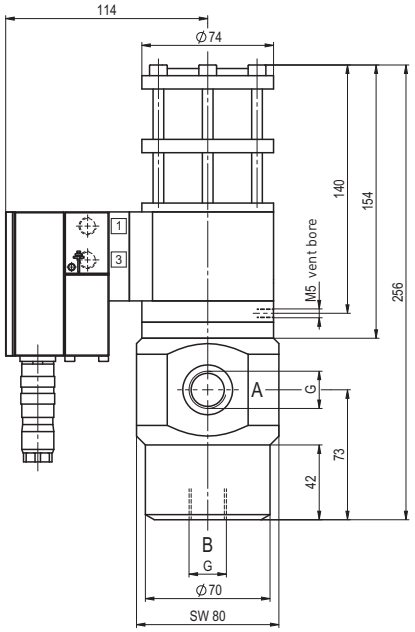
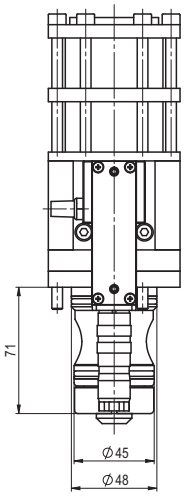
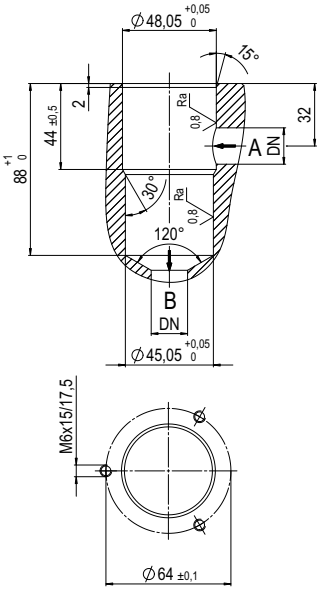




drilling design for cartridge



actuation pressure-diagram