

type SPP-1 15 PC
SPP-2 15 PC

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

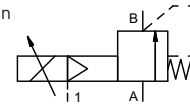
details needed for proportional valve

- 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 0-80 bar
orifice	DN 15 mm
connection	thread/cartridge
function	stepless pressure regulation



operating principle	externally controlled with spring return						
body material	<table border="0"> <tr> <td>① aluminium</td> <td>③</td> </tr> <tr> <td>① brass</td> <td>④</td> </tr> <tr> <td>②</td> <td>④ stainless steel</td> </tr> </table>	① aluminium	③	① brass	④	②	④ stainless steel
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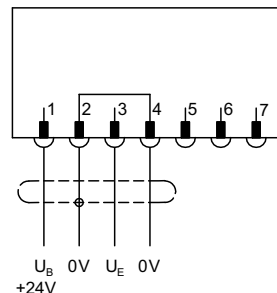
valve seat	synthetic materials on metal / metal on metal
seal materials	EPDM, PU, HNBR FPM

	general specifications	options
ports	SPP-1 with valve body thread G 1/2 - G 3/4 SPP-2 with valve body thread G 1/2 - G 3/4	without valve body without valve body
function	stepless pressure regulation	
pressure regulation range	SPP-1 5-40	SPP-2 5-80
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		WAZ
mounting		mounting holes
weight	kg SPP-1 4,2 SPP-2 4,5	SPP-1 3,1 SPP-2 3,4
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 (RE 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	

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

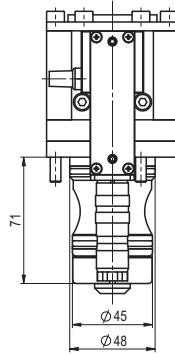
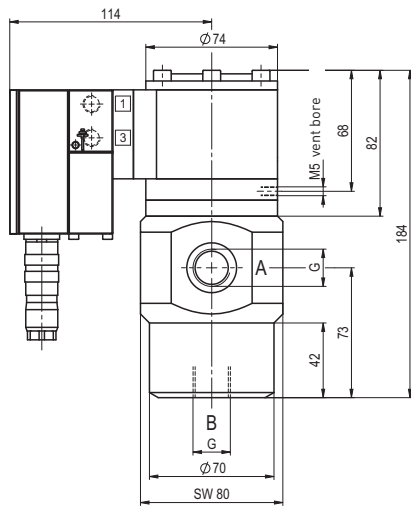
arbitrary, but regulator not downwards.

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

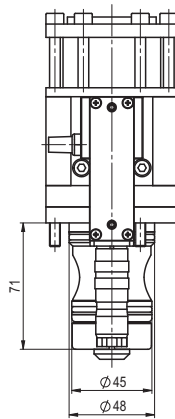
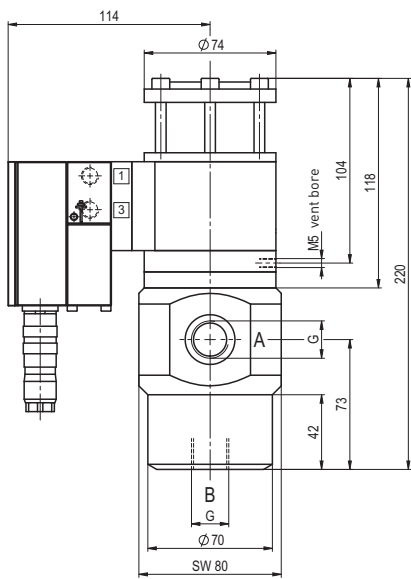
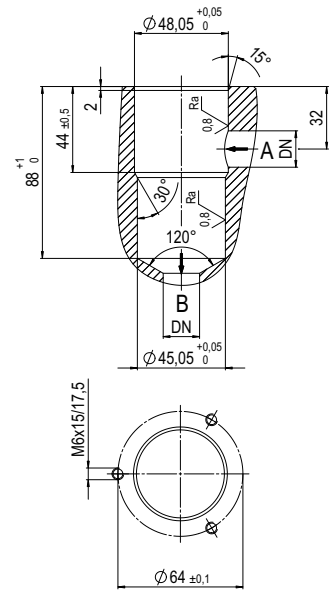
coax® data sheet - pressure reduction valve

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drilling design for cartridge



actuation pressure-diagram

