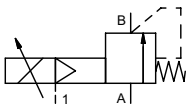
pressure reduction valve

type SPP-1 15 PC
SPP-2 15 PC

control valve proportional	**externally controlled**
pressure range	PN 0-80 bar
orifice	DN 15 mm
connection	thread/cartridge
function	stepless pressure regulation bypass version



design	externally controlled with spring return	
body materials	⓪ aluminium	④
	① brass	⑤
	③	⑥ stainless steel
valve seat	synthetic resin 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

general specifications		options
ports	SPP-1 with valve body thread G 1/2 - G 3/4	without valve body
	SPP-2 with valve body thread G 1/2 - G 3/4	without valve body
function	stepless regulation	
pressure regulation range	bar SPP-1 5-40	SPP-2 5-80
flow rate	m³/h max. 6,0	
media	gaseous - liquid - highly viscous - contaminated	
abrasive media		version 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		

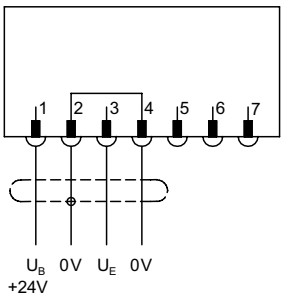
electrical specifications		options
nominal voltage	U_B DC 24 V (max. residual ripple 10 %)	
current consumption	DC < 0,7 A	
control signals	U_E 0-10 V (R_E 10 KΩ)	
protection	IP65 (P54) acc. DIN 40050	
energized duty rating	ED 100 % (observe the connection conditions accordingly)	
connection	plug with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

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).

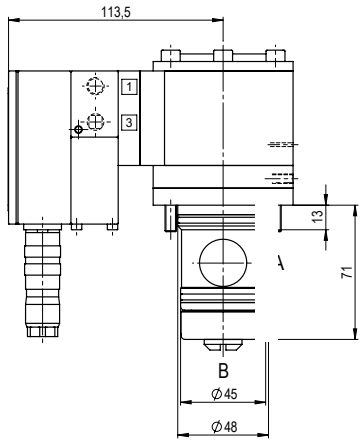
position of installation

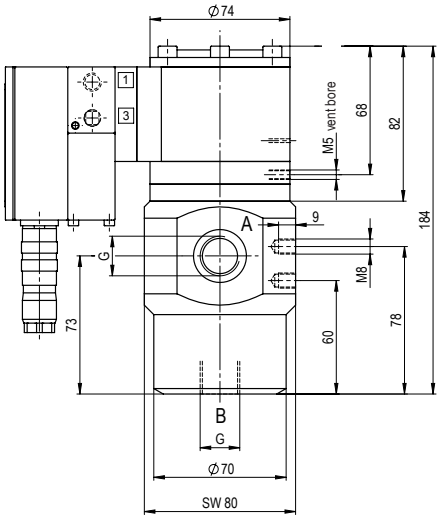
arbitrarly, but regulator not downwards.

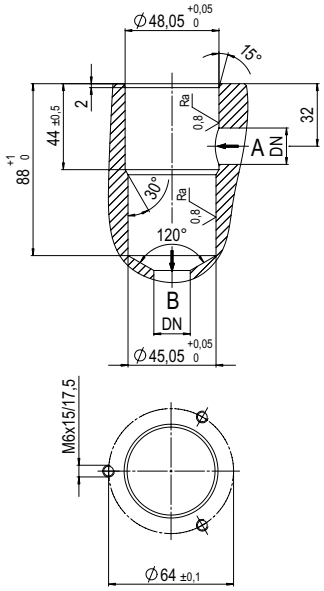
- specifications not highlighted are standard
- specifications highlighted in grey are optional

type **SPP-1 15 PC**

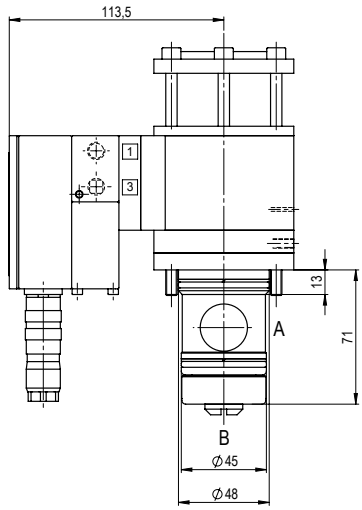
drilling design for cartridge

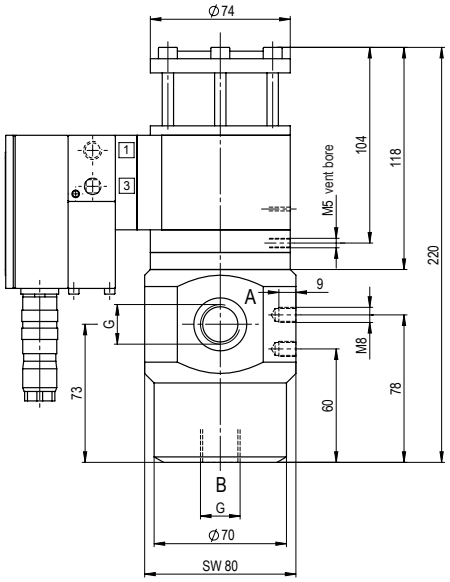






type **SPP-2 15 PC**





actuation pressure-diagram