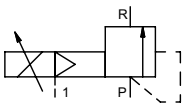
pressure limitation valve
type SPB 08

control valve proportional	**externally controlled**
pressure range	PN 0-200 bar
orifice	DN 8 mm
connection	thread
function	stepless pressure regulation bypass version



⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

design	externally controlled without spring return		
body materials	② steel, galvanized	④	
	① brass	⑤	
	③	⑥	
valve seat	metal on metal	synthetic resin on metal	
seal materials	NBR	FPM	

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	SPB	threads G 3/8	
function		stepless regulation	
pressure regulation range	bar	10-200	10 - 160
Kv value	m³/h	max. 1,1	
media		gaseous - liquid	
abrasive media			
flow direction	P ⇨ R	as marked	
operating time	ms	< 200	
media temperature	°C	0 to +60	
ambient temperature	°C	0 to +50	
approvals			
mounting			
weight	kg	3,7	
additional equipment			

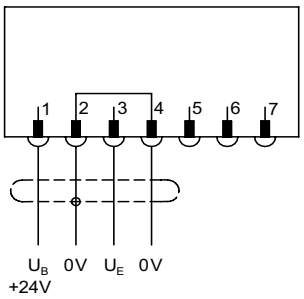
	electrical specifications		options
nominal voltage	U_B	DC 24 V (max. residual ripple 10%)	
power consumption	DC	< 0,7 A	
control signals	U_E	0-10 V (R_E 10KΩ)	
protection	IP65	acc. DIN 40 050	
energized duty rating	ED	100% (observe the connection conditions accordingly)	
connection		plug with 7 contacts / wire diameter 6-8 mm	

	pneumatic specifications		options
actuation pressure range	bar	see actuation pressure-diagram	
air consumption		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.

connectionplan



connection conditions

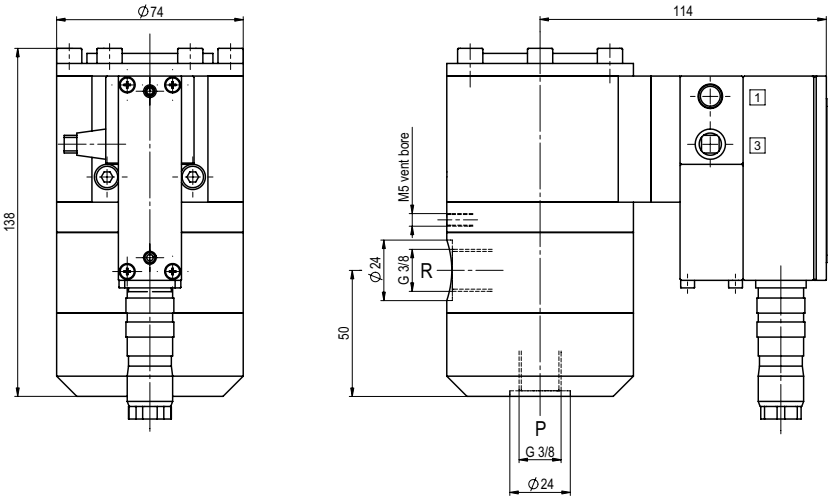
When supplying the electrical set point signal to the proportional valve, the actuating air must already be present. (see actuation pressure-diagram)

position of installation

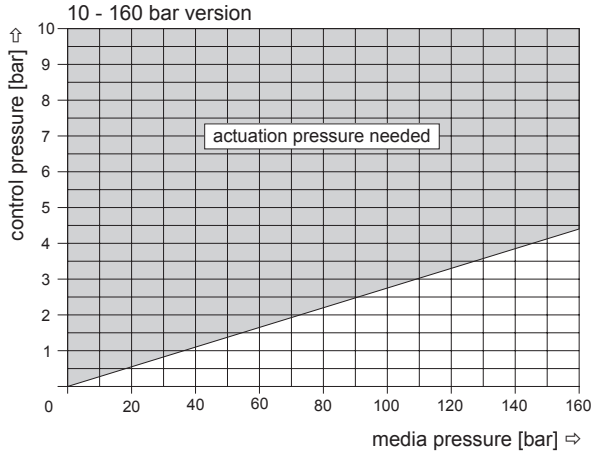
arbitrarily, but regulator not downwards

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

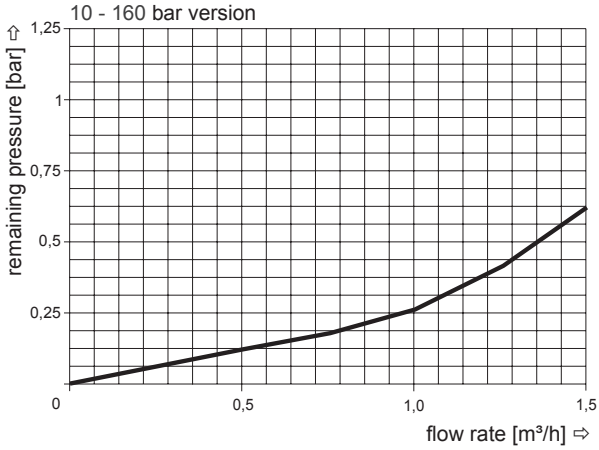
type **SPB 08**



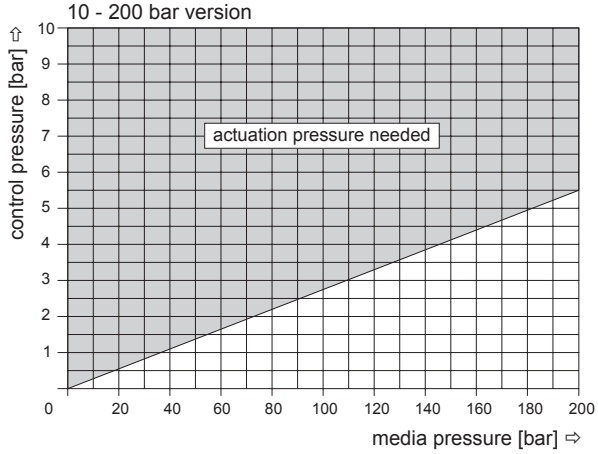
actuation pressure-diagram



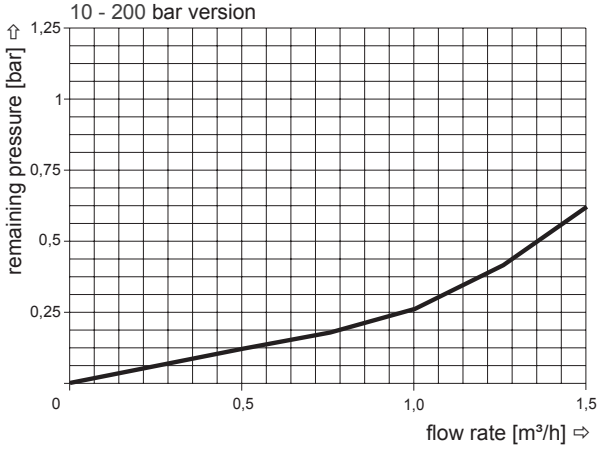
pressureless circulation mode



actuation pressure-diagram



pressureless circulation mode



The application-specific layout relating to temperature, pressure conditions, switching behavior, media and its consistency may restrict the range of use or necessitate relevant modifications to materials used and seal arrangements.