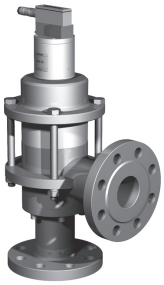
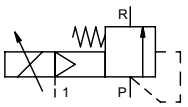
pressure limitation valve
type SPB 65



control valve proportional	**externally controlled**
pressure range	PN 0-64 bar
orifice	DN 65 mm
connection	flange
function	stepless pressure regulation bypass version



design	externally controlled with spring return	
body materials	①	④
	② steel, galvanized	⑤
	③	⑥
valve seat	metal on metal	
seal materials	NBR	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	SPB	flanges PN 64
function		stepless regulation
pressure regulation range	bar	5-64
Kv value	m³/h	max. 60
media		liquid - highly viscous - contaminated
abrasive media		
flow direction	P ⇨ R	as marked
operating time	ms	< 400
media temperature	°C	0 to +60
ambient temperature	°C	0 to +50
approvals		
mounting		
weight	kg	42,6
additional equipment		

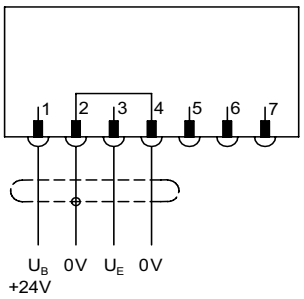
electrical specifications		options
nominal voltage	U_B	DC 24 V (max. residual ripple 10%)
power consumption	DC	< 0,7 A
control signals	U_E	0-10 V (R_E 10KΩ)
protection	IP65	acc. DIN 40 050
energized duty rating	ED	100% (observe the connection conditions accordingly)
connection		plug with 7 contacts /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

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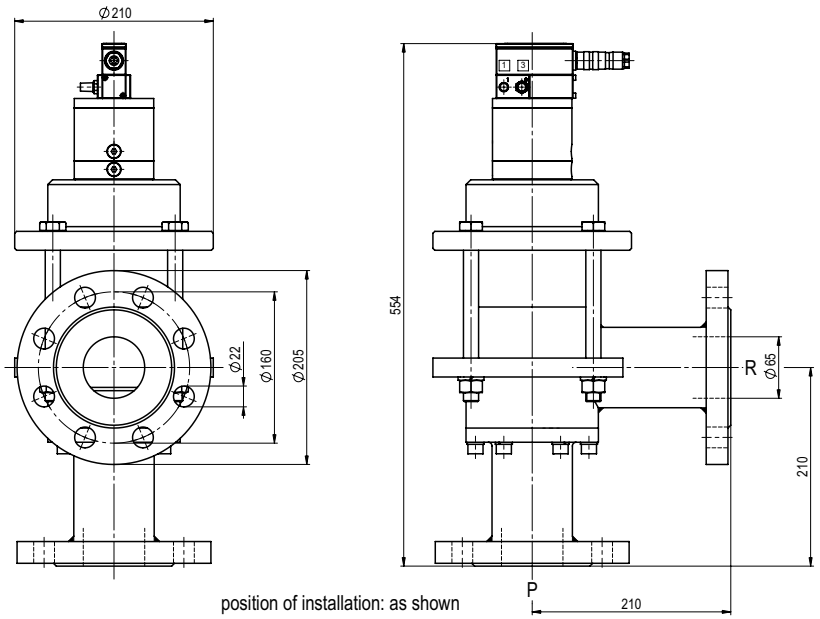
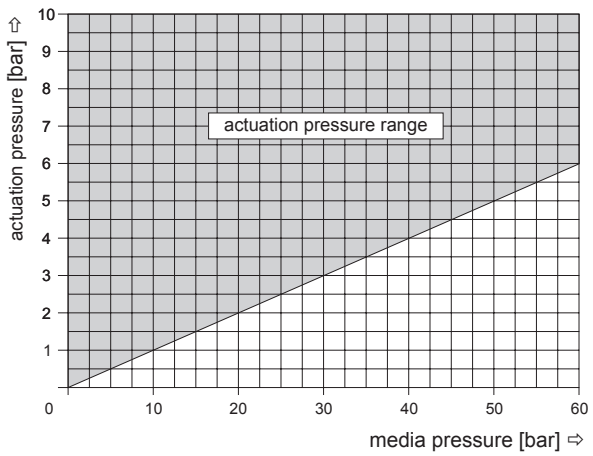
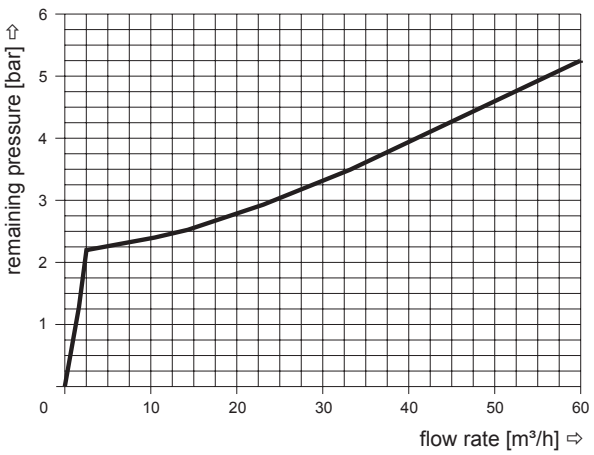


actuation pressure-diagram



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.