

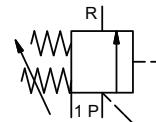
## pressure limitation valve

type **HPB 65****3-HPB 65**

valve type with pilot valve



<b>control valve manual</b>	externally controlled
<b>pressure range</b>	PN 0-64 bar
<b>orifice</b>	DN 65 mm
<b>connection</b>	flange
<b>function</b>	manual stepless pressure regulation



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

<b>design</b>	externally controlled with spring return
<b>body materials</b>	① ② steel, galvanized ③
	④ ⑤ ⑥
<b>valve seat</b>	metal on metal
<b>seal materials</b>	NBR
	FPM

**details needed for main valve**

- orifice
- port
- pressure regulating range
- flow rate
- media
- media temperature
- ambient temperature

**details needed for pneumatic actuation**

- nominal voltage
- type of protection
- actuation pressure range min/max

<b>ports</b>	HPB	flanges PN 64
<b>function</b>		stepless regulation
<b>pressure regulation range</b>	bar	5-64
<b>flow rate</b>	m³/h	max. 60
<b>media</b>		liquid - highly viscous - contaminated
<b>abrasive media</b>		
<b>flow direction</b>	P $\Rightarrow$ R	as marked
<b>settling time</b>	ms	< 400
<b>media temperature</b>	°C	0 to +60
<b>ambient temperature</b>	°C	0 to +50
<b>approvals</b>		
<b>mounting</b>		
<b>weight</b>	kg	42,5
<b>additional equipment</b>		

<b>electrical specifications</b>			<b>options</b>
nominal voltage	U <sub>n</sub>	DC 24 V	special voltage upon request
	U <sub>n</sub>	AC 230 V 50 Hz	special voltage upon request
power consumption	DC	4,8 W	2,5 W
	AC	pick up 11,0 VA holding 8,5 VA	
protection	IP65 (P54)	acc. DIN 40050	
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form B, 3 positions x90° / wire diameter 6-8 mm	
optional	M12x1	connector acc. DESINA	connector acc. VDMA
additional equipment		illuminated plug with varistor	
max. temperature	media	60°C	
	ambient	50°C	
explosion proof	E Ex e II T5	nominal voltage U <sub>n</sub>	DC 24 V 3,25 W
		power consumption	AC 230 V 50 Hz 2,90 W

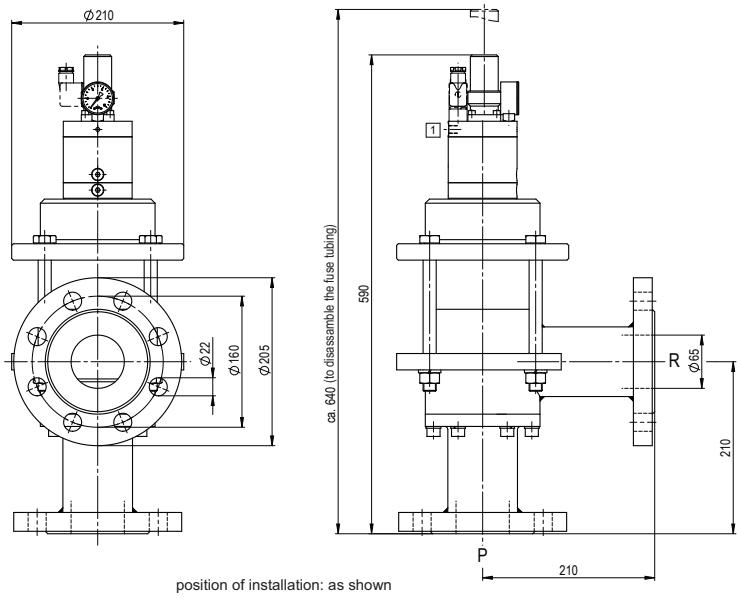
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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.

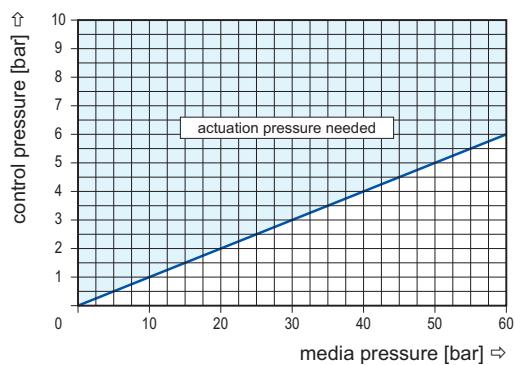
<b>pneumatic specifications</b>			<b>options</b>
actuation pressure range	bar	see actuation pressure-diagram	
compressed air		DIN ISO 8573-1 grade of compressed air quality 5/4/3	
control		preferably 3/2 way pilot valve during low pressure circulation mode	
actuator ports	1	G 1/8	

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

# type HPB 65



actuation pressure-diagram



pressureless circulation mode

