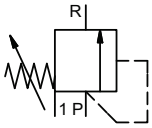
pressure limitation valve
type HPB 08

3-HPB 08

valve type with pilot valve

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



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

⚠ 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 pneumatic actuation

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

general specifications			options
ports	HPB	threads G 3/8	
function		stepless regulation	
pressure regulation range	bar	10-200	
flow rate	m³/h	max. 1,1	
media		gaseous - liquid	
abrasive media			
flow direction	P ⇨ R	as marked	
settling time	ms	< 200	
media temperature	°C	0 to +60	
ambient temperature	°C	0 to +50	
approvals			
mounting			
weight	kg	3,6	
additional equipment			

electrical specifications			options
nominal voltage	U_n	DC 24 V	special voltage upon request
	U_n	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		iluminated plug with varistor	
max. temperature	media	60°C	
	ambient	50°C	
explosion proof	E Ex e II T5	nominal voltage U_n	DC 24 V 3,25 W
		power consumption	AC 230 V 50 Hz 2,90 W

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		preferably 3/2 way pilot valve during low pressure circulation mode	
actuator ports	1	G 1/8	

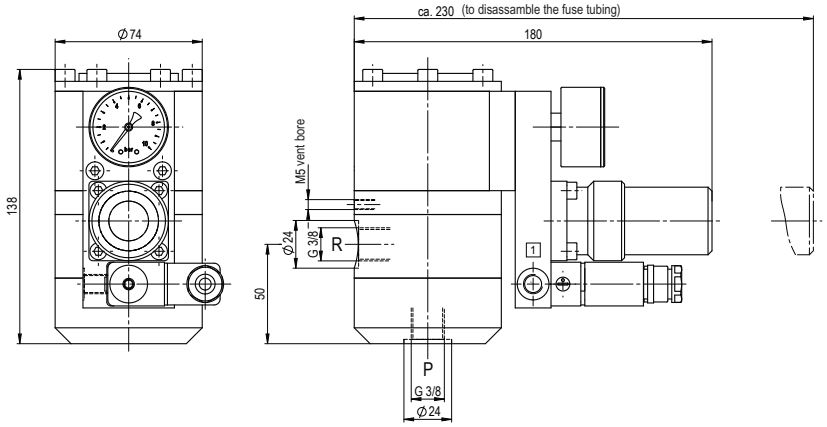
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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.

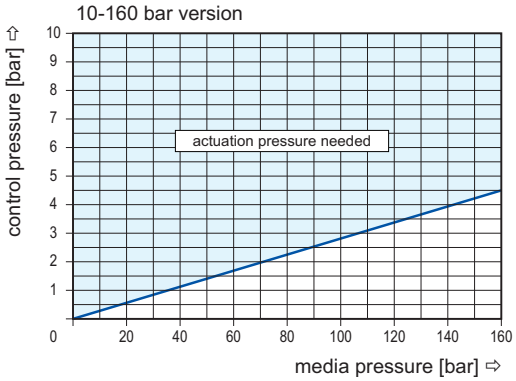
- specifications not highlighted are standard

specifications highlighted in grey are optional

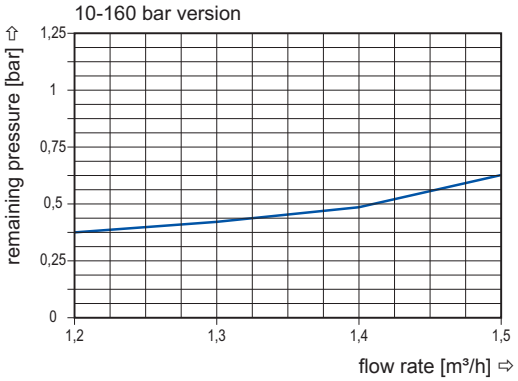
type **3-HPB 08**



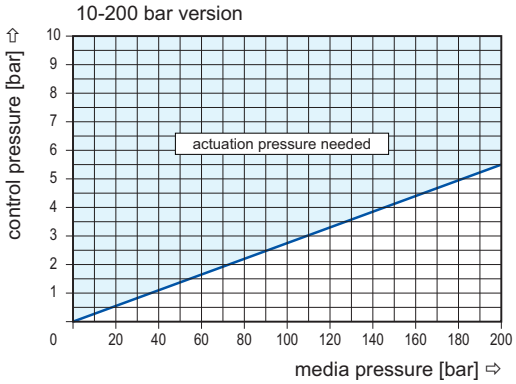
actuation pressure-diagram



pressureless circulation mode



actuation pressure-diagram



pressureless circulation mode