

# pressure limitation valve

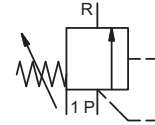
## type HPB 08

### 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



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 pneumatic actuation**

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

	general specifications	options
<b>ports</b>	HPB threads G 3/8	
<b>function</b>	stepless regulation	
<b>pressure regulation range</b>	bar 10-200	
<b>Kv value</b>	m <sup>3</sup> /h max. 1.1	
<b>media</b>	gaseous - liquid	
<b>abrasive media</b>		
<b>flow direction</b>	P ⇌ R as marked	
<b>operating time</b>	ms < 200	
<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 3,6	
<b>additional equipment</b>		

**electrical specifications**

	electrical specifications	options
<b>nominal voltage</b>	U <sub>n</sub> 24 V DC	special voltage upon request
	U <sub>n</sub> 230 V 50 Hz AC	special voltage upon request
<b>power consumption</b>	DC 4,8 W	2,5 W
	AC pick up 11,0 VA holding 8,5 VA	
<b>protection</b>	IP 65 (P54) acc. DIN 40 050	
<b>energized duty rating</b>	ED 100%	
<b>connection</b>	plug acc. DIN EN 175301-803 form B	
<b>additional equipment</b>	illuminated plug with varistor	
<b>optional</b>	M12x1 connector acc. DESINA	connector acc. VDMA
<b>coil</b>	3 positions x 90° / wire diameter 6-8 mm	
<b>max. temperature</b>	media 60°C	
	ambient 50°C	
<b>explosion proof</b>	EEx m II T5	
	nominal voltage U <sub>n</sub>	direct current 24 V 3,25 W
	power consumption	alternating current 230 V 50 Hz 2,90 W

**pneumatic specifications**

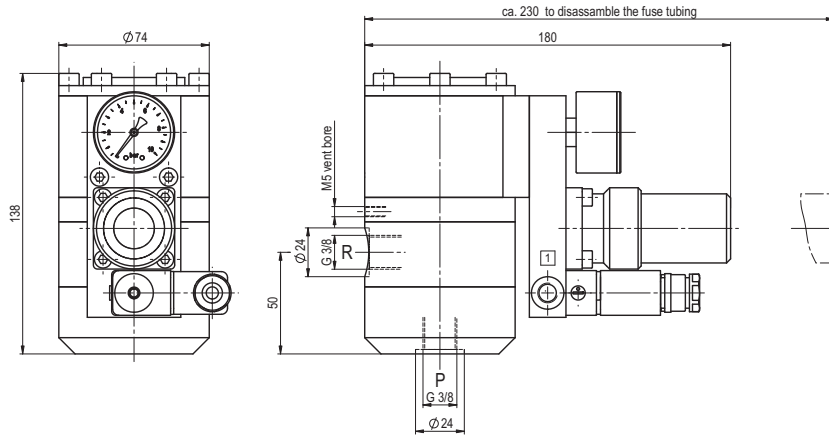
	pneumatic specifications	options
<b>actuation pressure range</b>	bar see actuation pressure-diagram	
<b>air consumption</b>	DIN ISO 8573-1 grade of compressed air quality 5/4/3	
<b>control</b>	preferably 3/2-way pilot valve during low pressure circulation mode	
<b>actuator ports</b>	1 G 1/8	

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.

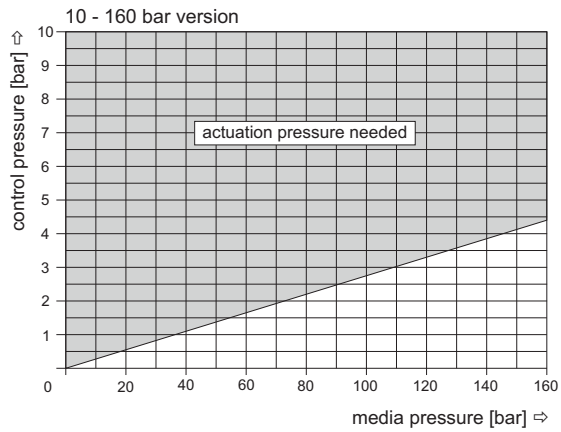
If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

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

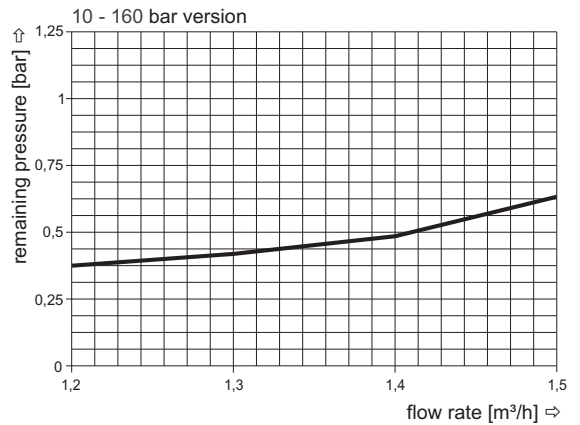
# type 3-HPB 08



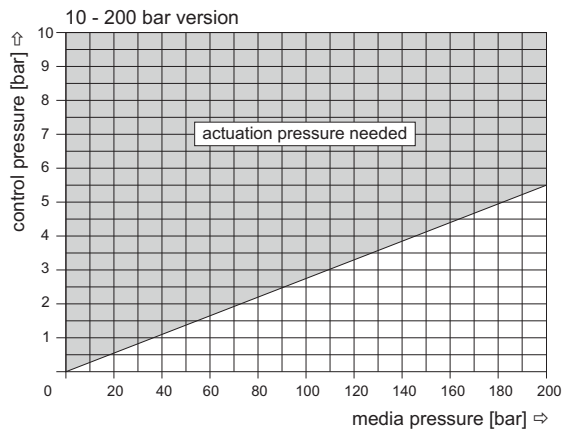
**actuation pressure-diagram**



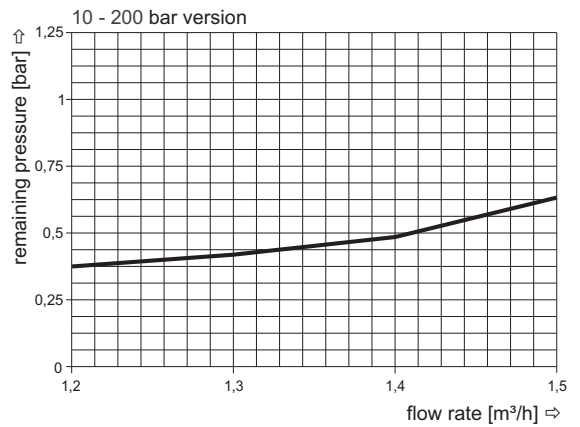
**pressureless circulation mode**



**actuation pressure-diagram**



**pressureless circulation mode**



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.

Rights reserved to make technical alterations • Not responsible for printing errors • Detailed drawings can be obtained upon request