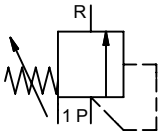
# pressure limitation valve
# type HPB 08

**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<br>stepless<br>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

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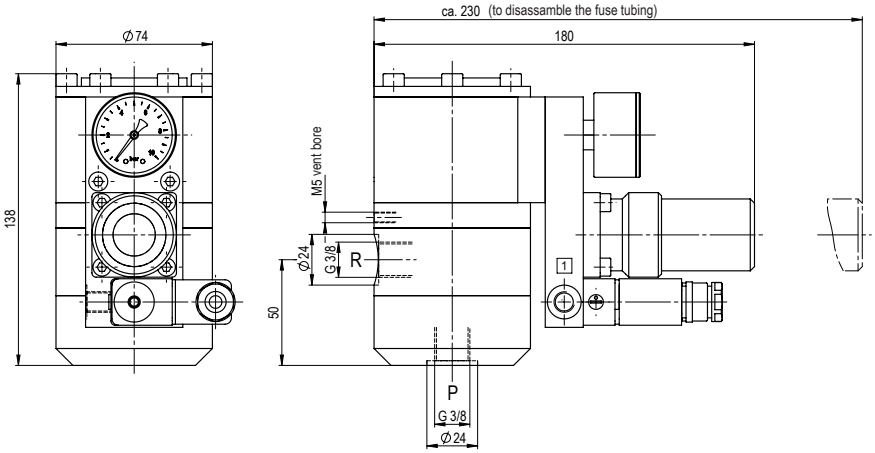
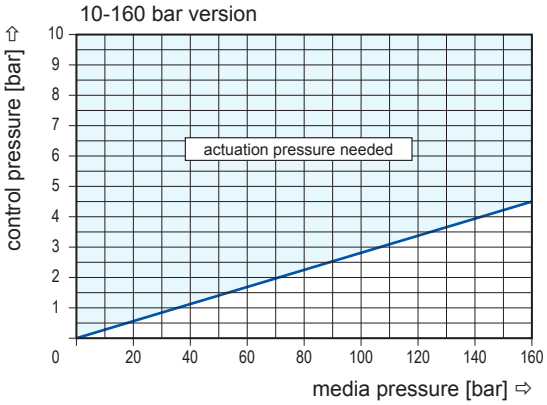
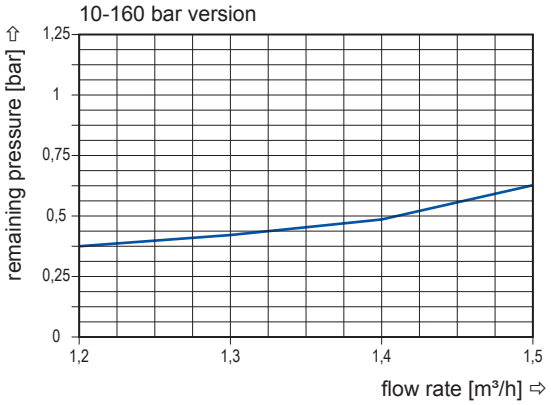


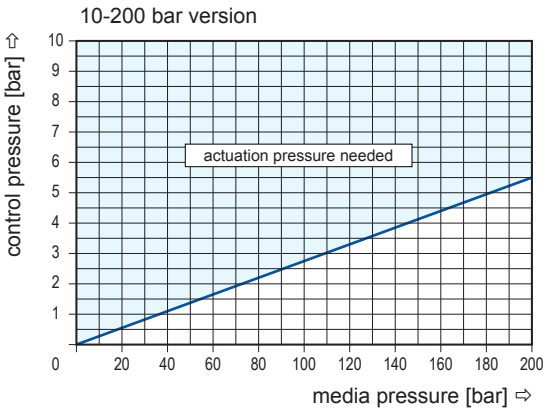

**actuation pressure-diagram**




**pressureless circulation mode**




**actuation pressure-diagram**




**pressureless circulation mode**