

03/2022



**⚠** 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

**⚠** 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.

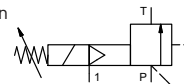
**⚠** If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

**control valve manual**

- pressure range**
- orifice**
- connection**
- function**

**externally controlled**

- PN 1-16 bar
- DN 15 mm
- thread
- stepless pressure regulation



**operating principle**

**body material**

- externally controlled without spring return
- ① ④
- ② steel galvanized ⑤
- ③ ⑥

**valve seat**

metal on metal

**seal materials**

FPM, PTFE

**ports**

HPB threads G 1 **options**  
SAE connections DIN ISO 6162

- function**
- pressure regulation range**
- flow rate**
- media**

- stepless pressure regulation
- bar 1-16
- m<sup>3</sup>/h 6,0
- liquid - highly viscous - contaminated

**abrasive media**

**flow direction**

**settling time**

**media temperature**

**ambient temperature**

**approvals**

**mounting**

**weight**

**additional equipment**

- P ⇒ T as marked
- ms < 900
- °C 0 to +60
- °C 0 to +50
- mounting holes
- kg 2,6
- options**  
security valve

**nominal voltage**

U<sub>n</sub> DC 24 V **options**  
special voltage upon request

**power consumption**

U<sub>n</sub> AC 230 V 50 Hz special voltage upon request

**protection**

**energized duty rating**

**connection**

**optional**

**additional equipment**

**max. temperature**

- DC 4,8 W 2,5 W
- AC pick up 11,0 VA holding 8,5 VA
- IP65 (P54) acc. DIN 40050
- ED 100%
- plug acc. DIN EN 175301-803 form B, 3 positions x90° / wire diameter 6-8 mm
- M12x1 connector acc. DESINA connector acc. VDMA
- illuminated plug with varistor
- 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

**actuation pressure range**

**compressed air**

**control**

**actuator ports**

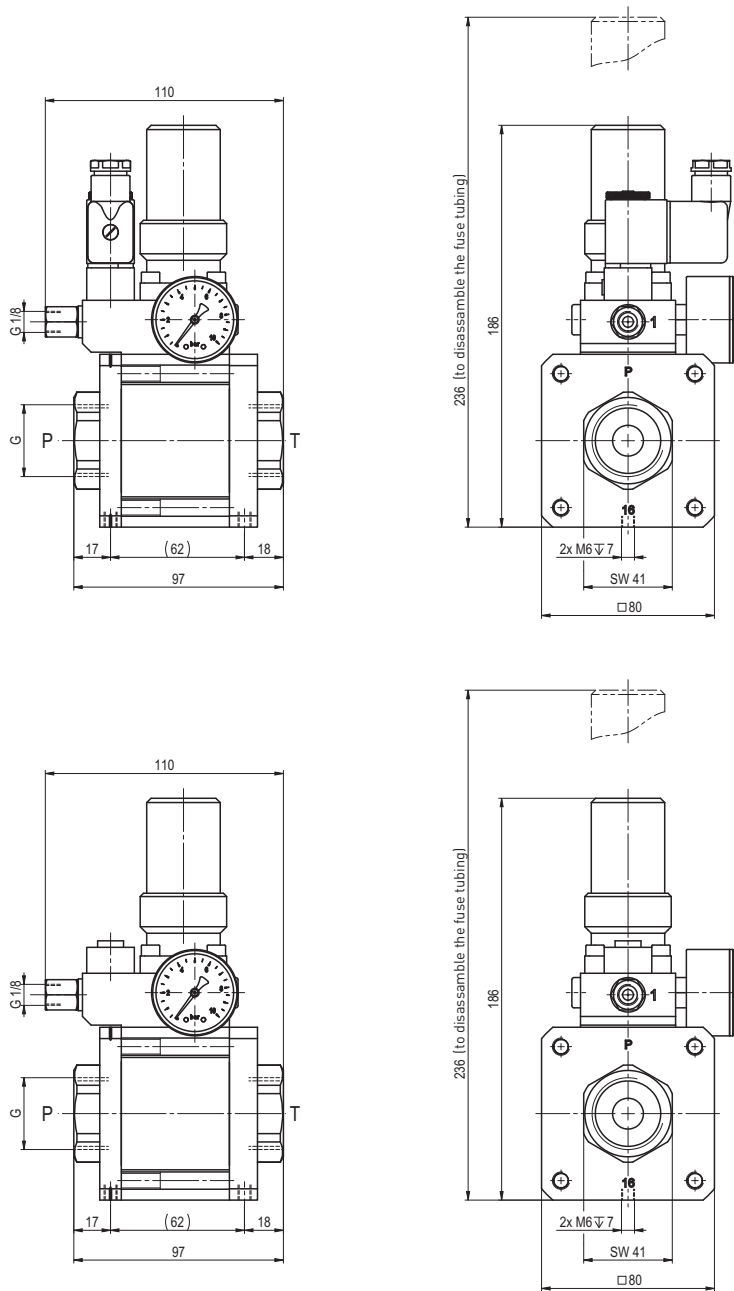
**pneumatic specifications**

- options**
- bar see actuation pressure-diagram
- DIN ISO 8573-1 grade of compressed air quality 5/4/3
- preferably 3/2 way pilot valve during low pressure circulation mode
- 1 G 1/8

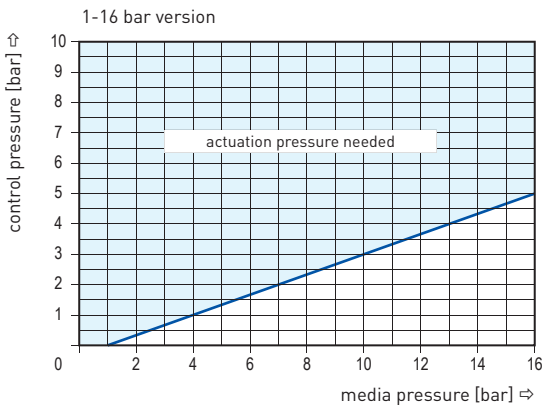
specifications not highlighted are standard  
 specifications highlighted in grey are optional

# coax® data sheet - pressure limitation valve

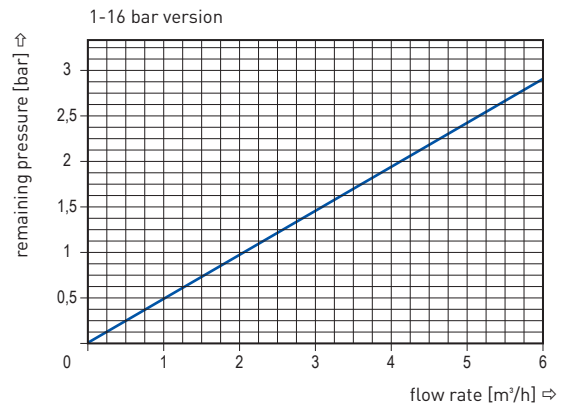
type HPB-N 15



### actuation pressure-diagram



### pressureless circulation mode



Sound creation during low pressure circulation mode and flow Q= 6 m³/h ca. 70 dBA