

08/2021



⚠ 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.

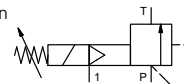
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

control valve manual

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

externally controlled

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



design

body materials

externally controlled without spring return

- ①
- ② steel galvanized
- ③
- ④
- ⑤
- ⑥

valve seat

seal materials

metal on metal

FPM, PTFE

ports

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

general specifications

- HPB threads G 1
- stepless pressure regulation
- bar 1-16
- m³/h 6,0
- liquid - highly viscous - contaminated

options

SAE connections DIN ISO 6162

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

security valve

nominal voltage

power consumption

protection

energized duty rating

connection

optional

additional equipment

max. temperature

explosion proof

electrical specifications

- U_n DC 24 V
- U_n AC 230 V 50 Hz
- DC 4,8 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
- illuminated plug with varistor
- media 60°C
- ambient 50°C
- E Ex e II T5 nominal voltage U_n
- power consumption

options

special voltage upon request
special voltage upon request
2,5 W

connector acc. VDMA

- DC 24 V 3,25 W
- AC 230 V 50 Hz 2,90 W

actuation pressure range

compressed air

control

actuator ports

pneumatic specifications

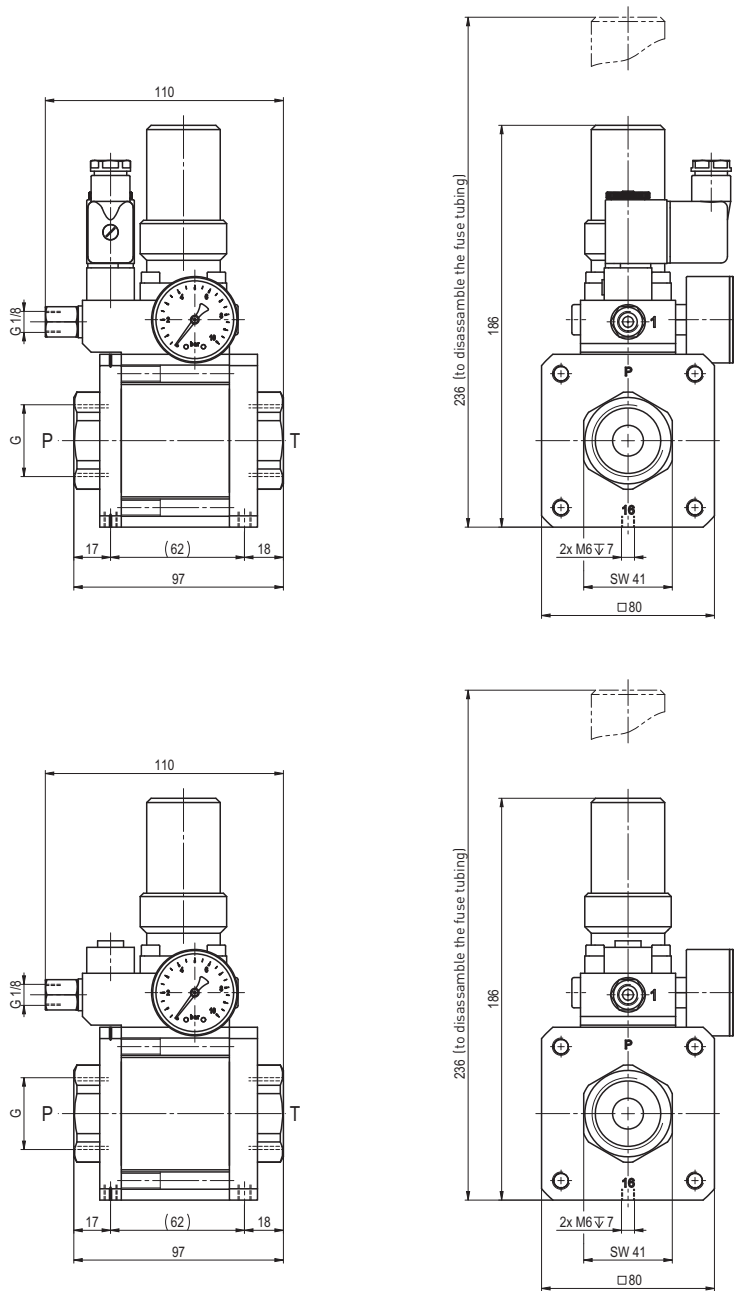
- bar see actuation pressure-diagram
- DIN ISO 8573-1 grade of compressed air quality 5/4/3
- preferably 3/2 way pilot valve during low pressure circulation mode
- 1 G 1/8

options

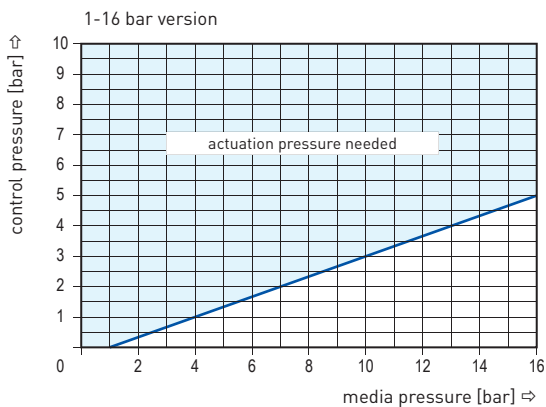
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

coax® data sheet - pressure limitation valve

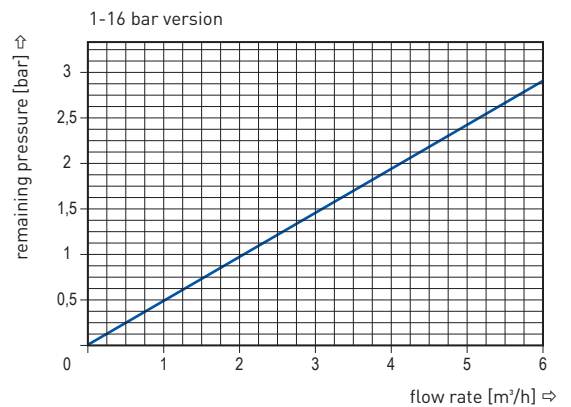
type HPB-N 15



actuation pressure-diagram



pressureless circulation mode



Sound creation during low pressure circulation mode and flow $Q=6 \text{ m}^3/\text{h}$ ca. 70 dBA