

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.

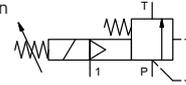
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application. 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 5-63 bar
 DN 15 mm
 thread
 stepless pressure regulation



operating principle

body material

externally controlled with spring return

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

valve seat

metal on metal

seal materials

FPM, PTFE

ports

HPB threads G 1

function

stepless pressure regulation

pressure regulation range

bar 5-63

flow rate

m³/h 6,0

media

liquid - highly viscous - contaminated

abrasive media

P ⇌ T as marked

flow direction

ms < 900

settling time

°C 0 to +60

media temperature

°C 0 to +50

ambient temperature

approvals

mounting holes

mounting

kg 2,6

weight

options

SAE connections DIN ISO 6162

security valve

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
 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

pneumatic specifications

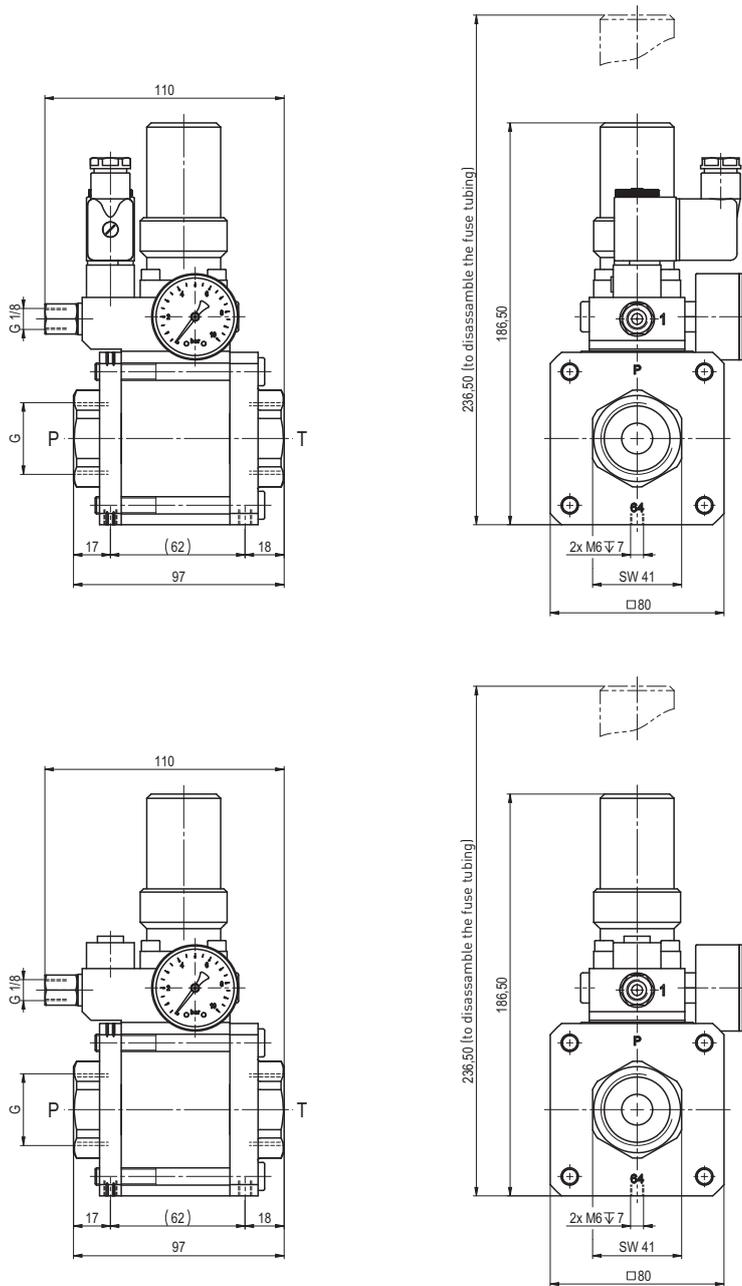
bar see actuation pressure-diagram
 DIN ISO 8573-1 grade of compressed air quality 5/4/3
 preferably 3/2 way pilot valve during low pressure circulation mode
 1 G 1/8

options

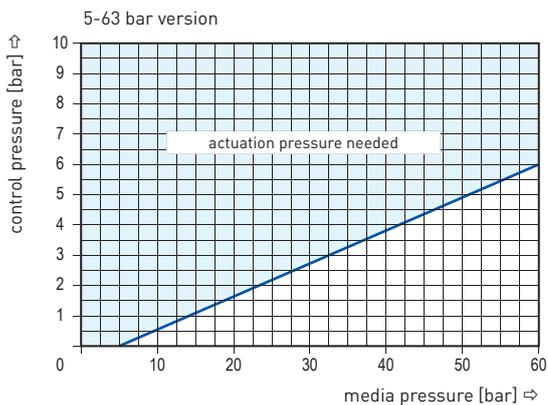
■ specifications not highlighted are standard
 ■ specifications highlighted in grey are optional

coax® data sheet - pressure limitation valve

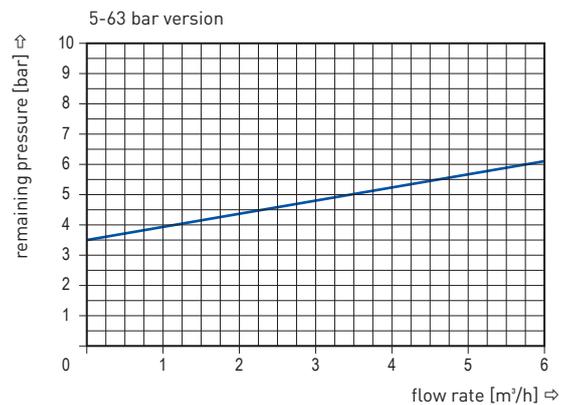
type HPB-S 15



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