

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.

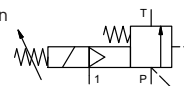
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.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

options

SAE connections DIN ISO 6162

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

media temperature

°C 0 to +60

ambient temperature

°C 0 to +50

approvals

mounting

mounting holes

weight

kg 2,6

additional equipment

security valve

nominal voltage

U_n DC 24 V
U_n AC 230 V 50 Hz

options

special voltage upon request
special voltage upon request

power consumption

DC 4,8 W
AC pick up 11,0 VA holding 8,5 VA

2,5 W

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

illuminated 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

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

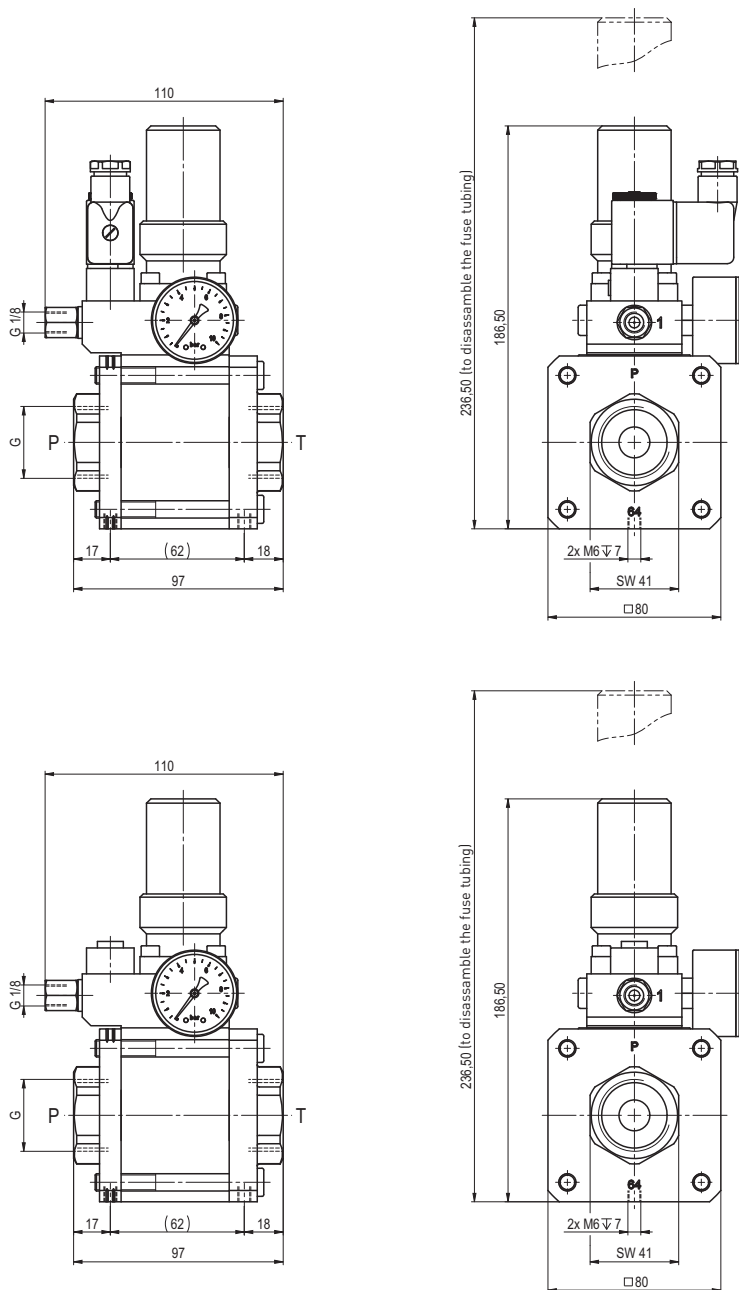
pneumatic specifications

options

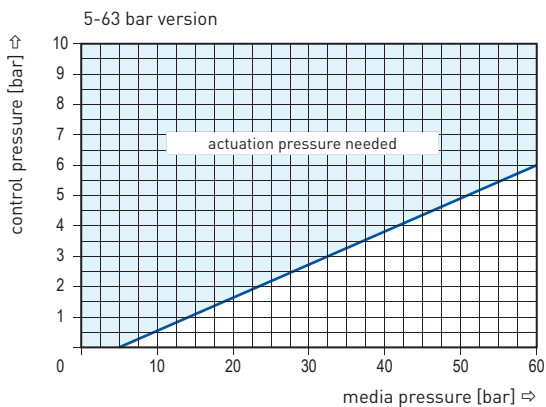
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

coax® data sheet - pressure limitation valve

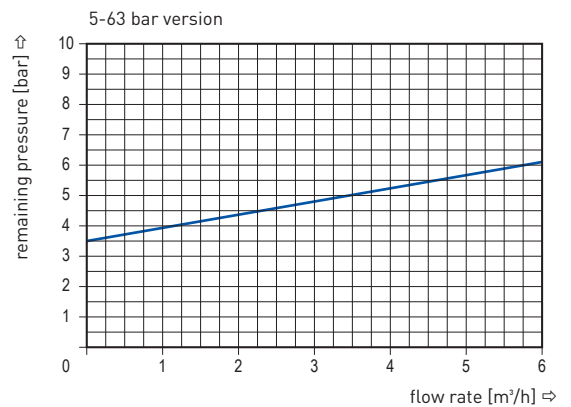
type HPB-S 15



actuation pressure-diagram



pressureless circulation mode



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