

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.

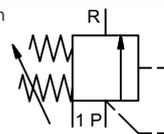
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application. 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 0-63 bar
- DN 65 mm
- flange
- 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

NBR FPM

ports

HPB flanges PN 63

function

stepless pressure regulation

pressure regulation range

bar 5-63

flow rate

m³/h max. 60

media

liquid - highly viscous - contaminated

abrasive media

P ⇌ R as marked

flow direction

ms < 400

settling time

°C 0 to +60

media temperature

°C 0 to +50

ambient temperature

approvals

mounting

weight

kg 42,5

additional equipment

electrical specifications

options

nominal voltage

U_n DC 24 V special voltage upon request

power consumption

U_n AC 230 V 50 Hz special voltage upon request

protection

DC 4,8 W 2,5 W

energized duty rating

AC pick up 11,0 VA holding 8,5 VA

connection

IP65 (P54) acc. DIN 40050

optional

ED 100%

additional equipment

plug acc. DIN EN 175301-803 form B, 3 positions x90° / wire diameter 6-8 mm

max. temperature

M12x1 connector acc. DESINA connector acc. VDMA

explosion proof

illuminated plug with varistor

media 60°C

ambient 50°C

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

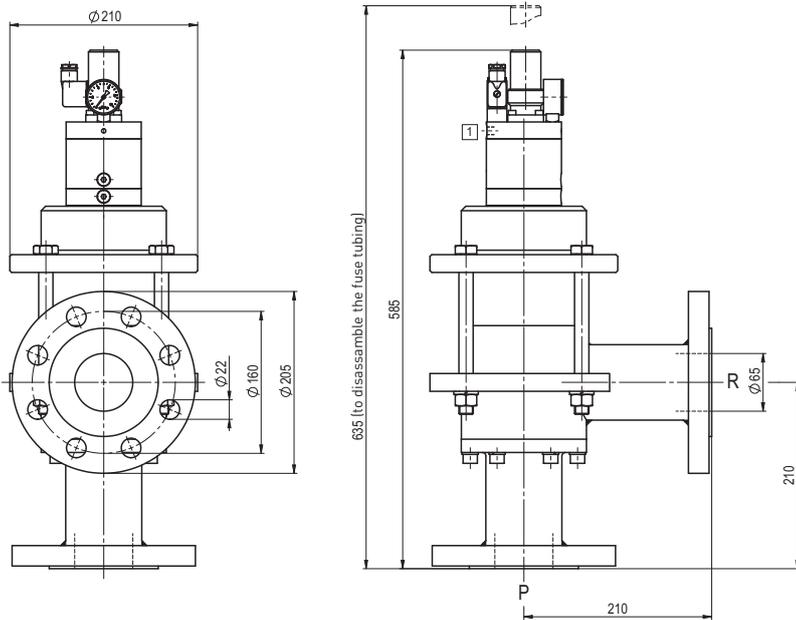
actuator ports

1 G 1/8

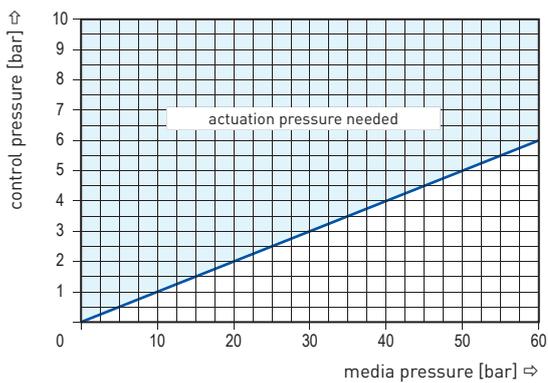
specifications not highlighted are standard
 specifications highlighted in grey are optional

coax® data sheet - pressure limitation valve

type HPB 65



actuation pressure-diagram



pressureless circulation mode

