

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.

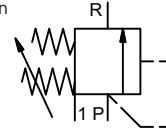
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

control valve manual

pressure range
orifice
connection
function

externally controlled

PN 0-64 bar
DN 65 mm
flange
stepless pressure regulation



design

body materials

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 64

function

stepless pressure regulation

pressure regulation range

bar 5-64

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

U _n	DC 24 V	special voltage upon request
U _n	AC 230 V 50 Hz	special voltage upon request
DC	4,8 W	2,5 W
AC	pick up 11,0 VA holding 8,5 VA	
IP65 (P54)	acc. DIN 40050	
ED	100%	
connection	plug acc. DIN EN 175301-803 form B, 3 positions x90° / wire diameter 6-8 mm	
M12x1	connector acc. DESINA	connector acc. VDMA
additional equipment	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

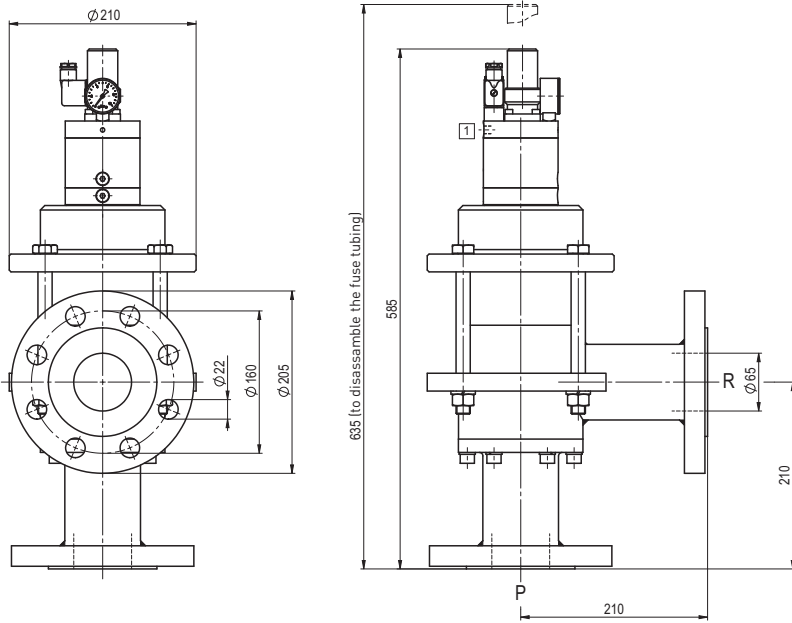
options

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

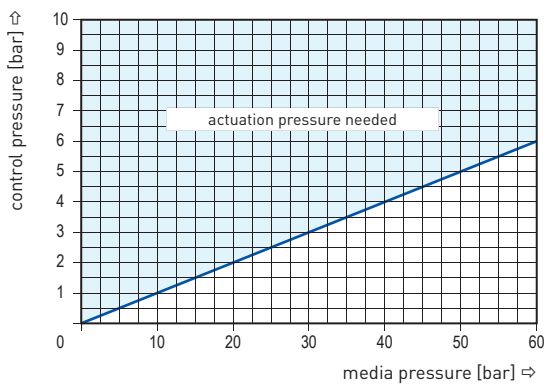
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

coax® data sheet - pressure limitation valve

type HPB 65



actuation pressure-diagram



pressureless circulation mode

