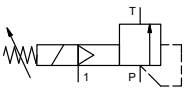
coax® data sheet - pressure limitation valve

type HPB-N 32

03/2022

control valve manual	**externally controlled**
pressure range	PN 1-16 bar
orifice	DN 32 mm
connection	thread
function	stepless pressure regulation



operating principle	externally controlled without spring return
body material	① ④ ② steel galvanized ⑤ ③ ⑥
valve seat	metal on metal
seal materials	FPM, PTFE

⚠ 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

general specifications			**options**
ports	HPB	threads G 1 1/2	SAE connections DIN ISO 6162
function		stepless pressure regulation	
pressure regulation range	bar	1-16	
flow rate	m³/h	24,0	
media		liquid - highly viscous - contaminated	
abrasive media			
flow direction	P ⇨ T	as marked	
settling time	ms	< 900	
media temperature	°C	0 to +60	
ambient temperature	°C	0 to +50	
approvals			
mounting		mounting holes	
weight	kg	8,3	
additional equipment			security valve

electrical specifications			**options**
nominal voltage	U_n	DC 24 V	special voltage upon request
	U_n	AC 230 V 50 Hz	special voltage upon request
power consumption	DC	4,8 W	2,5 W
	AC	pick up 11,0 VA holding 8,5 VA	
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

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	

⚠ 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.

specifications not highlighted are standard
specifications highlighted in grey are optional

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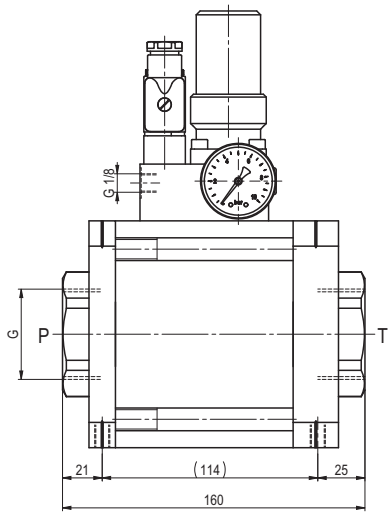
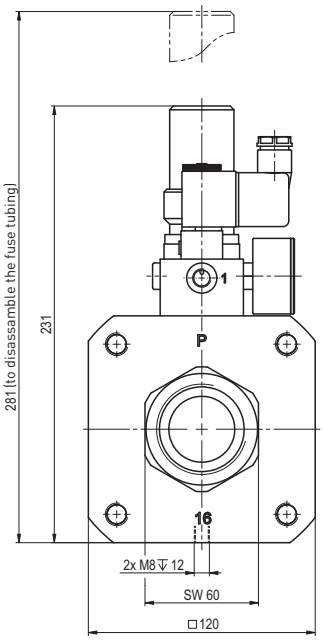
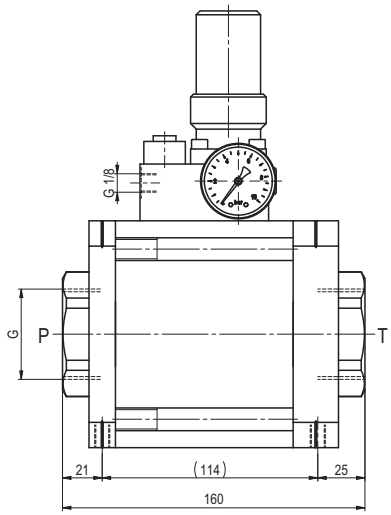
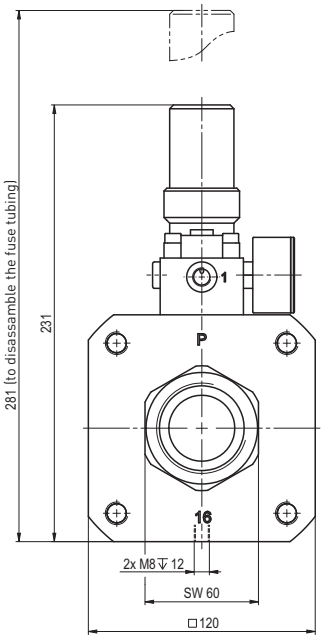
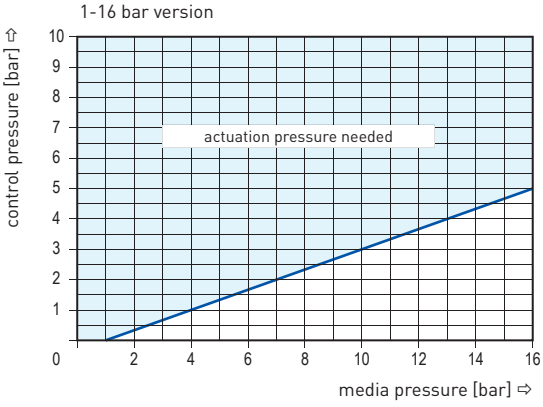




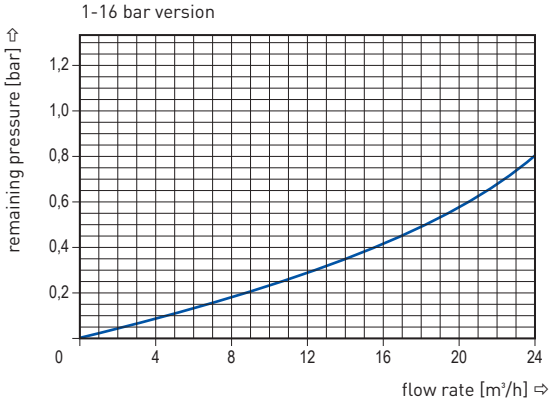




actuation pressure-diagram



pressureless circulation mode



Sound creation during low pressure circulation mode and flow Q= 24 m³/h ca. 70 dbA