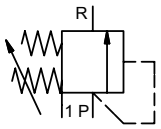
pressure limitation valve
type HPP 40 RS

3-HPP 40 RS

valve type with pilot valve

control valve manuel	**externally controlled**
pressure range	PN 0-100 bar
orifice	DN 40 mm
connection	thread
function	manual stepless pressure regulation



design	externally controlled with spring return
body materials	① brass ④ ② ⑤ ③ ⑥
valve seat	metal on metal
seal materials	FPM, PU

⚠ 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	HPP	threads G 1 1/2	special threads
function		stepless regulation	
pressure regulation range	bar	5-64	5-100
Kv value	m³/h	max. 24,0	14,2
media		liquid - highly viscous - contaminated	
abrasive media			upon request
flow direction	P ⇨ R	as marked	
operating time	ms	< 1000	
media temperature	°C	0 to +60	
ambient temperature	°C	0 to +50	
approvals			WAZ
mounting			mounting holes
weight	kg	8,8	
additional equipment			

electrical specifications

			options
nominal voltage	U_n	24V DC	special voltage upon request
	U_n	230 V 50 Hz AC	special voltage upon request
power consumption	DC	4,8 W	2,5 W
	AC	pick up 11,0 VA holding 8,5 VA	
protection	IP 65 (P54)	acc. DIN 40 050	
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form B	
			connector M12x1
additional equipment		illuminated plug with varistor	
coil		3 positions x 90° / wire diameter 6-8 mm	
max. temperature	media	60°C	
	ambient	50°C	
explosion proof	EEx m II T5	nominal voltage U_n	direct current 24 V 3,25 W
		power consumption	alternating current 230 V 50 Hz 2,90 W

pneumatic specifications

			options
actuation pressure range	bar	see actuation pressure-diagram	
air consumption		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	

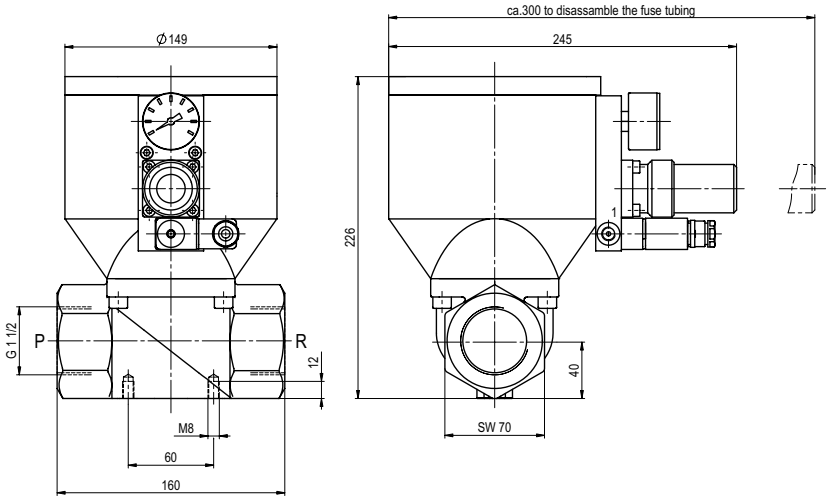
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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.

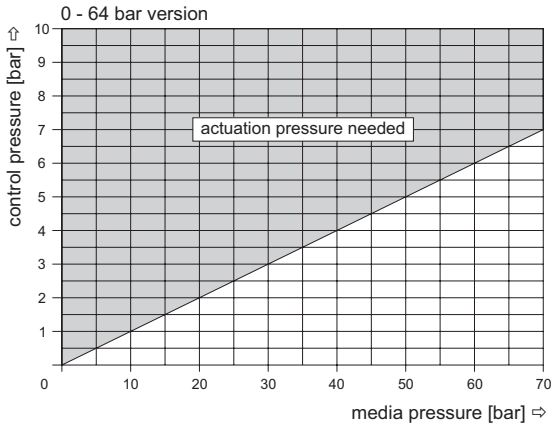
- specifications not highlighted are standard

specifications highlighted in grey are optional

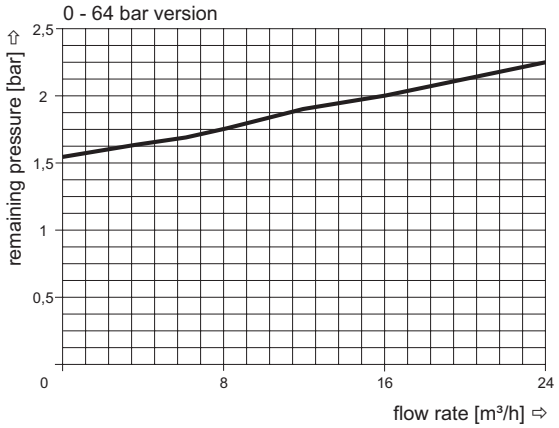
type **HPP 40 RS**



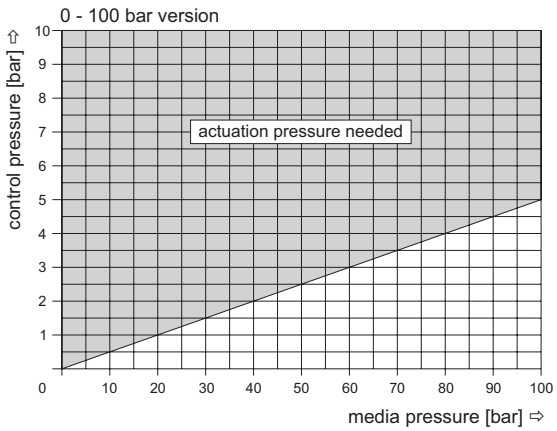
actuation pressure-diagram



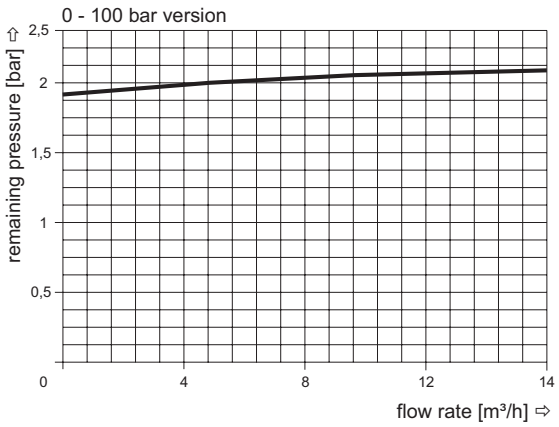
pressureless circulation mode



actuation pressure-diagram



pressureless circulation mode



The application-specific layout relating to temperature, pressure conditions, switching behavior, media and its consistency may restrict the range of use or necessitate relevant modifications to materials used and seal arrangements.