

# pressure reduction valve

type **HPI-1 32**  
**HPI-2 32**

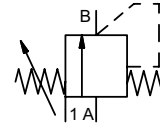
3-HPI-1 32

3-HPI-2 32

valve type with pilot valve



**control valve** manuel externally controlled  
**pressure range** PN 0-100 bar  
**orifice** DN 32 mm  
**connection** thread  
**function** manual stepless pressure regulation



Above stated body materials refer to the valve port connections that get in contact with the media only!

**design** externally controlled with spring return

**body materials** ① brass ④  
② ⑤  
③ ⑥

**valve seat** metal on metal

**seal materials** PU, NBR **FPM**

**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.

**general specifications**

**options**

<b>ports</b>	HPI-1 G 1 1/2	
	HPI-2 G 1 1/2	
<b>function</b>	stepless regulation	
<b>pressure regulation range</b>	bar HPI-1 5-40	HPI-2 5-100
<b>Kv value</b>	m³/h max. 24,3	
<b>media</b>	gaseous - liquid - highly viscous - contaminated	
<b>abrasive media</b>		
<b>flow direction</b>	A ⇌ B	as marked
<b>operating time</b>	ms HPI-1 < 200	HPI-2 < 400
<b>media temperature</b>	°C 0 to +60	
<b>ambient temperature</b>	°C 0 to +50	
<b>approvals</b>		
<b>mounting</b>	mounting bracket	
<b>weight</b>	kg HPI-1 15,1	HPI-2 16,2
<b>additional equipment</b>		

**electrical specifications**

**options**

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

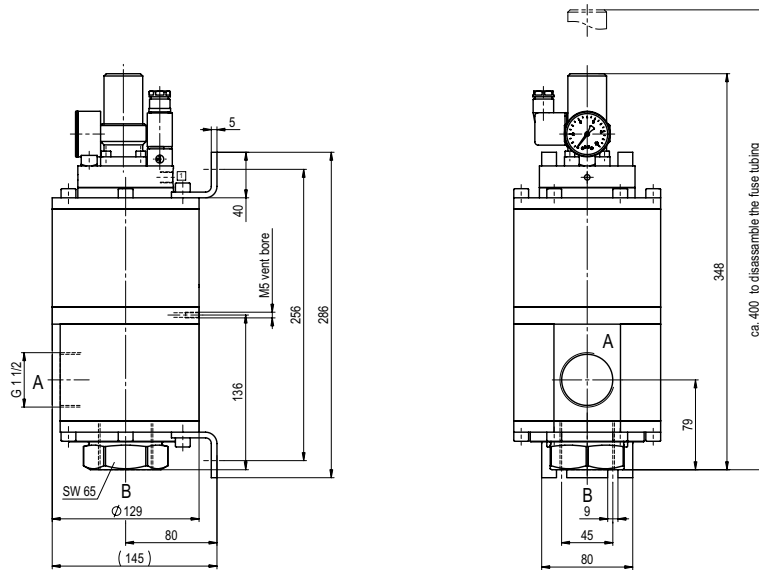
**pneumatic specifications**

**options**

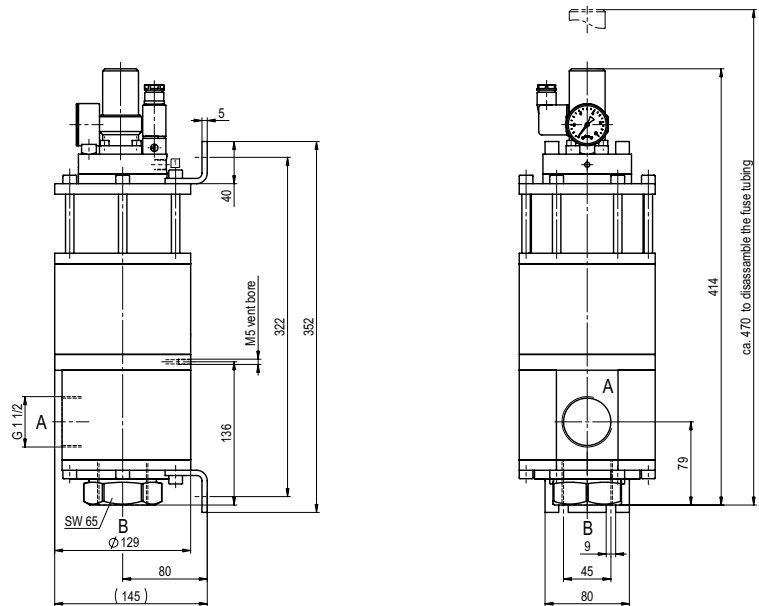
<b>actuation pressure range</b>	bar see actuation pressure-diagram
<b>air consumption</b>	DIN ISO 8573-1 grade of compressed air quality 5/4/3
<b>control</b>	preferably 3/2-way pilot valve during low pressure circulation mode
<b>actuator ports</b>	1 G 1/8

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

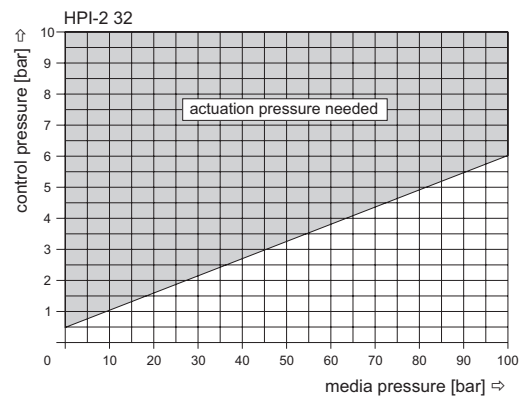
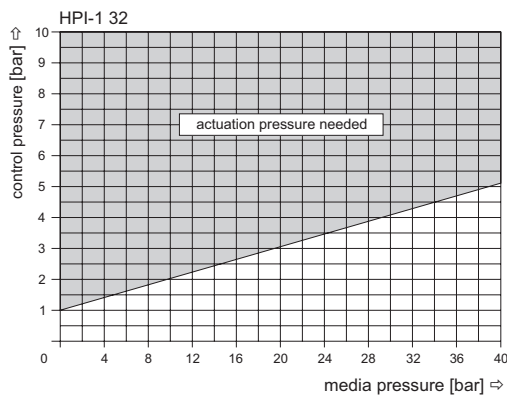
## type HPI-1 32



## type HPI-2 32



### actuation pressure-diagram



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.

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