## pressure limitation valve

### type HPB-S 50

#### 3-HPB-S 50

valve type with pilot valve



control valve manuel externally controlled pressure range PN 5-64 bar

orifice DN 50 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)

4 steel, nickel plated

2 3 (5) 6

options

options

SAE port DIN ISO 6162

pressure regulation range

ports

function

flow rate

abrasive media

media temperature

ambient temperature

flow direction

settling time

approvals

protection energized duty rating connection

media

valve seat metal on metal seal materials FPM, PTFE

general specifications

electrical specifications

threads G 1 1/2

#### 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

mounting weight additional equipment

stepless regulation 48.0 emulsions - oils as marked < 900 0 to +60 °C 0 to +50 mounting holes security valve

nominal voltage power consumption

Un	DC 24 V	special voltage upon request	
Un	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%		
	plug acc. DIN EN 175301-803 form B, 3 positions x90° / wire diameter 6-8 mm		
M12x1	connector acc. DESINA	connector acc. VDMA	
	iluminated plug with varistor		
media	60°C		
ambient	50°C		
E Ex e II T5	nominal voltage Un	DC 24 V 3,25 W	

optional additional equipment max. temperature

actuation pressure range

explosion proof

compressed air

actuator ports

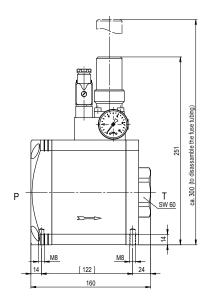
media	60 C			
ambient	50°C			
E Ex e II T5	nominal voltage Un	DC 24 V	3,25 W	
	power consumption	AC 230 V 50 Hz	2,90 W	
pneumatic specifications		options		
bar	see actuation pressure-diagram			
	DIN ISO 8573-1 grade of compressed air quality 5/4/3			
preferably 3/2 way pilot valve during low pressure circulation mode				
1	G 1/8			

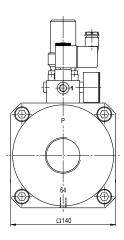
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

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.

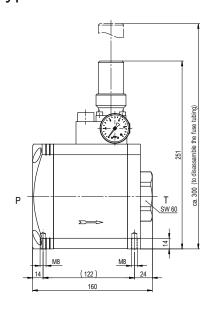
specifications not highlighted are standard specifications highlighted in grey are optional

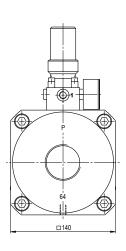
### type **3-HPB-S 50**



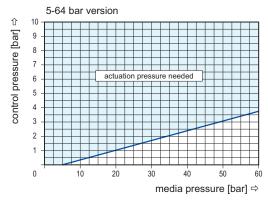


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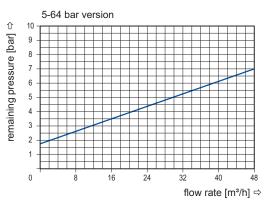




### actuation pressure-diagram



### pressureless circulation mode



Sound creation during low pressure circulation mode and flow Q= 48 m³/h ca. 74 dbA