## lateral valve

## type **PCB-1 10**

### 5-PCB-1 10 valve type with pilot valve



2/2 way valve externally controlled

pressure range PN 0-25 bar orifice DN 10 mm connection thread

function valve

normally closed symbol NC

valve normally open symbol NO



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 aluminium

(1) (4) 2 6 stainless steel

valve seat synthetic resin on metal / metal on metal seal materials EPDM, NBR, FPM, metalbrat (1.4571)

#### details needed for main valve

- orifice
- port
- function NC/NO
- operating pressure/∆p
- flow rate
- media
- media temperature
- ambient temperature
- type of actuation

#### details needed for pneumatic actuation

- nominal voltage
- type of protection
- actuation pressure range min/max
- low wattage coil, actuation pressure range 4-7 bar
- pilot valve type

#### details needed for hydraulic actuation

- actuation pressure range min/max
- hydraulic control valve function

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
ports	PCB-1	threads G 3/8	special threads
			_ <u></u>
function		NC	NO
pressure range	bar	0-25 (see pressure diagram)	NO (see pressure diagram)
Kv value	m³/h	3,0	
vacuum	leak rate		
pressure-vacuum	P₁⇔ P₂		
back pressure	P <sub>2</sub> > P <sub>1</sub>		available upon request
media		gaseous - liquid - highly viscous -	
		gelatinous - pasty - contaminated	
abrasive media			version available
damping	opening		
	closing	by throttles on pilot valve	
flow direction	A ⇒ B	as marked	bi-directional upon request
switching cycles	1/min	60	
switching time	ms	opening 30-3000 closing 30-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe-
ambient temperature	°C	direct mounted pilot valve 50	ratur range of media max. 150 °C
flush ports			
leak ports			available
limit switches			inductive
manual override		via 5/2 way pilot valve	
approvals			WAZ
mounting			mounting holes on valve body 2 x M6
weight	kg	PCB-1 1,1	
additional equipment			upon request
	electrica	al specifications	options
nominal voltage	Un	DC 24 V	special voltage upon request
•	Un	AC 230 V 50 Hz	special voltage upon request

	electrical specifications		options
nominal voltage	Un	DC 24 V	special voltage upon request
	Un	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,	4 positions x90° / wire diameter 6-8 mm
optional	M12x1	connector acc. DESINA	connector acc. VDMA
additional equipment		iluminated plug with varistor	
max. temperature	media	60°C	
	ambient	50°C	
explosion proof	E Ex e II T5	nominal voltage Un	DC 24 V 3,25 W
		power consumption	AC 230 V 50 Hz 2,90 W

actuation pressure range	bar	4-10	
air consumption	cm³/stroke	PCB-1 7	
cycle speed		main valve speed variable by throttleson pilot valve	
control		via 5/2 way pilot valve	
pilot valve interface			
actuator ports	2/4	G 1/8	

options

pneumatic specifications

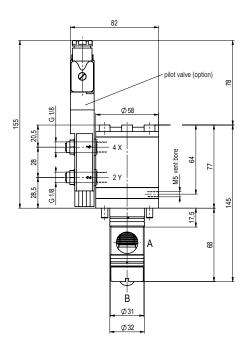
hydraulic specifications options >30 bar upon request 10-30 actuation pressure range control preferably 4/2 way control valve NPT 1/4 via adapter actuator ports G 1/4 via adapter by media

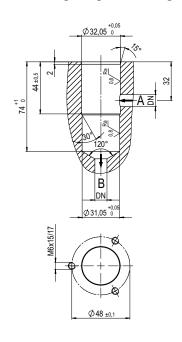
specifications not highlighted are standard specifications highlighted in grey are optional

# type PCB-1 10

function: **NC** closed when not energized

drilling design for cartridge



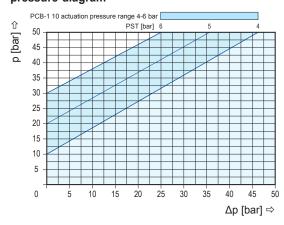


## type **PCB-1 10**

pilot valve (option) 82 27 27 4 4 X 5 W 60 24 X 5 W 60

B G Ø55 function: **NO** open when not energized

## pressure-diagram



### pneumatic actuation



5/2 way pilot valve flow rate 350 l/min pressure range 3-10 bar G 1/8