

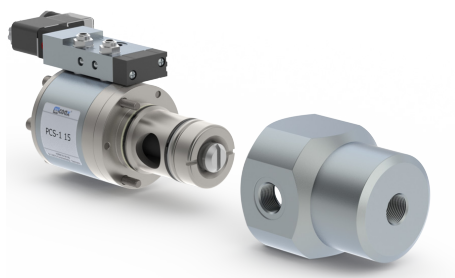
5-PCS-1 15

5-PCS-2 15

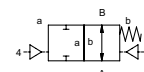
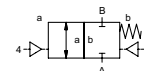
valve type with pilot valve

# lateral valve

## type PCS-1 15 PCS-2 15



**2/2 way valve** externally controlled  
**pressure range** PN 0-200 bar  
**orifice** DN 15 mm  
**connection** thread/cartridge  
**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** ① aluminium ③  
 ① brass ④  
 ② stainless steel ⑥  
**valve seat** synthetic resin on metal metal on metal  
**seal materials** HNBR FPM, EPDM

**details needed for main valve**

- orifice
- port
- function NC/NO
- operating pressure/Δp
- 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	PCS-1 without valve body PCS-2 without valve body	with valve body thread G 1/2 - G 3/4 with valve body thread G 1/2 - G 3/4
function	NC	NO
pressure range	PCS-1 0-50 (0-200 see pressure diagram) PCS-2 0-100 (0-200 see pressure diagram)	NO (see pressure diagram)
Kv value	m <sup>3</sup> /h 6,0	
vacuum	leak rate	
pressure-vacuum	P <sub>1</sub> ⇄ P <sub>2</sub>	
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 300	
switching time	ms opening 100-3000 closing 100-3000	
media temperature	°C direct mounted pilot valve 60	remote mounted pilot valve outside tempera- ratur range of media max. 150 °C
ambient temperature	°C direct mounted pilot valve 50	
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 M8
weight	kg PCS-1 1,8 PCS-2 2,1	PCS-1 2,9 PCS-2 3,2
additional equipment		valve body

electrical specifications		options
nominal voltage	U <sub>n</sub> DC 24 V AC 230 V 50 Hz	special voltage upon request special voltage upon request
power consumption	DC 4,8 W AC pick up 11,0 VA holding 8,5 VA	2,5 W
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	illuminated plug with varistor	
max. temperature	media 60°C ambient 50°C	
explosion proof	E Ex e II T5 nominal voltage U <sub>n</sub> power consumption	DC 24 V 3,25 W AC 230 V 50 Hz 2,90 W

pneumatic specifications		options
actuation pressure range	bar 4-10	
air consumption	cm <sup>3</sup> /stroke PCS-1 14 PCS-2 36	
cycle speed		main valve speed variable by throttleson pilot valve via 5/2 way pilot valve
control		
pilot valve interface		
actuator ports	2/4 G 1/8	

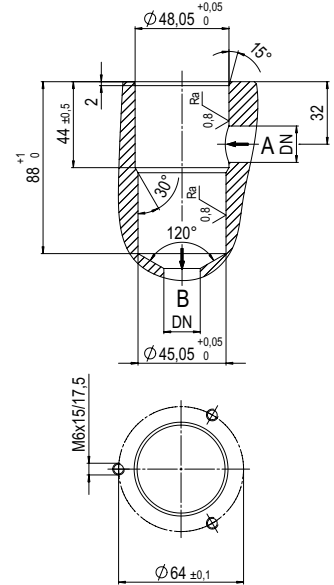
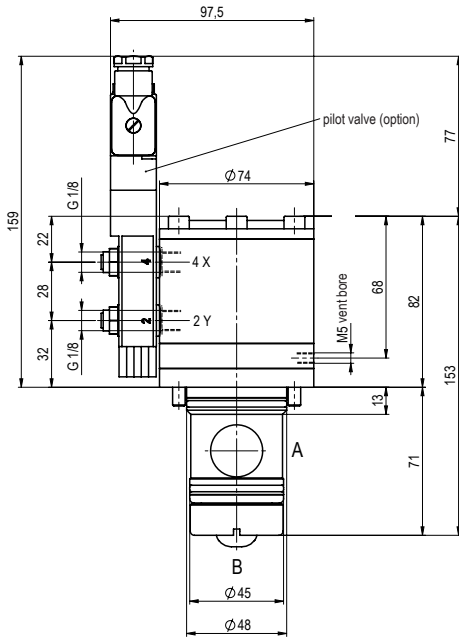
hydraulic specifications		options
actuation pressure range	bar 10-30	>30 bar upon request
control	preferably 4/2 way control valve	
actuator ports	X/Y G 1/4 via adapter	NPT 1/4 via adapter
by media		

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

# type PCS-1 15

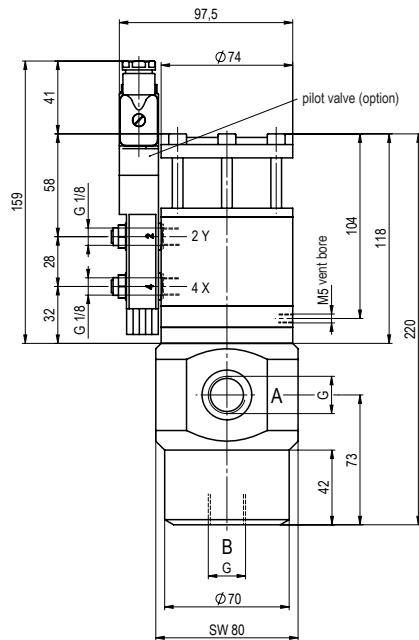
function: **NC**  
closed when not energized

## drilling design for cartridge

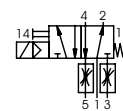


# type PCS-2 15

function: **NO**  
open when not energized



## pneumatic actuation



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

## pressure-diagram

