

## lateral valve

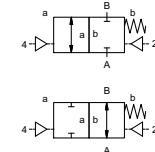
## type PCS-3 10

## 5-PCS-3 10

valve type with pilot valve



2/2 way valve	externally controlled
pressure range	PN 0-200 bar
orifice	DN 10 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 ② ③ ④ ⑤ ⑥ stainless steel

valve seat	synthetic resin on metal
seal materials	HNBR

metal on metal
FPM, EPDM

## details needed for main valve

- orifice
- port
- function NC/NO
- operating pressure/ $\Delta p$
- 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

general specifications		options
ports	PCS-3	without valve body
function	NC	NO
pressure range	bar 0-150 (0-200 see pressure diagram)	NO (see pressure diagram)
K <sub>v</sub> value	m <sup>3</sup> /h 3,0	
vacuum	leak rate	
pressure-vacuum	P <sub>1</sub> ↔P <sub>2</sub>	
back pressure	P <sub>2</sub> > P <sub>1</sub>	upon request
media	gaseous - liquid - highly viscous - gelatinous - pasty - contaminated	
abrasive media		available
damping		
flow direction	opening	
switching cycles	closing	by throttles on pilot valve
switching time	A↔B	as marked
ms	1/min	bi-directional upon request
media temperature	opening	30-3000
ambient temperature	closing	30-3000
flush ports	°C	direct mounted pilot valve 60
leak ports		remote mounted pilot valve outside
limit switches	°C	temperatur range of media max. 150 °C
manual override		
approvals		
mounting		
weight		
additional equipment		

## electrical specifications

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

## pneumatic specifications

actuation pressure range	bar 4-10	options
air consumption	cm <sup>3</sup> /stroke PCS-3 27	
cycle speed		main valve speed variable by throttles on pilot valve
control		preferably 5/2 way pilot valve
pilot valve interface		
actuator ports	2/4	G 1/8

## hydraulic specifications

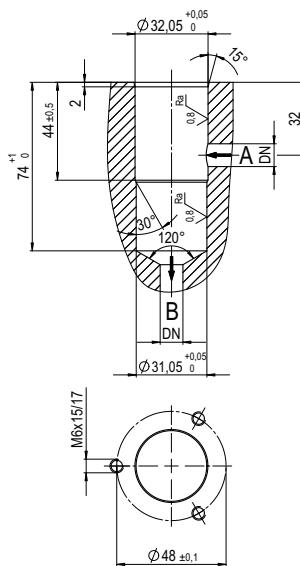
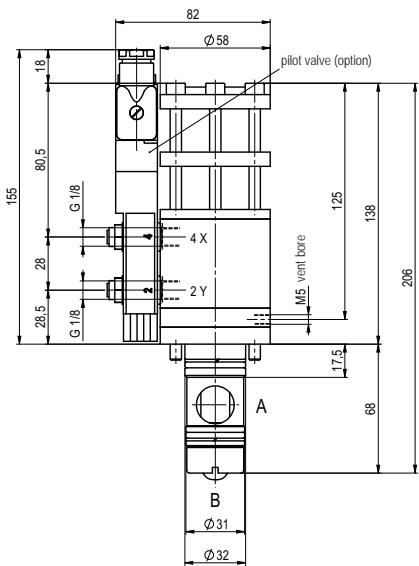
actuation pressure range	bar 10-30	options
control	preferably 4/2 way control valve	> 30 bar upon request
actuator ports	X/Y G 1/4 via adapter	
by media		NPT 1/4 via adapter

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

type **PCS-3 10**

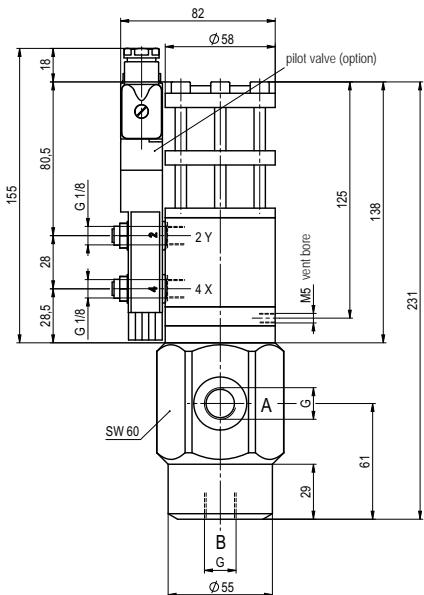
function: **NC**  
closed when not energized

## drilling design for cartridge

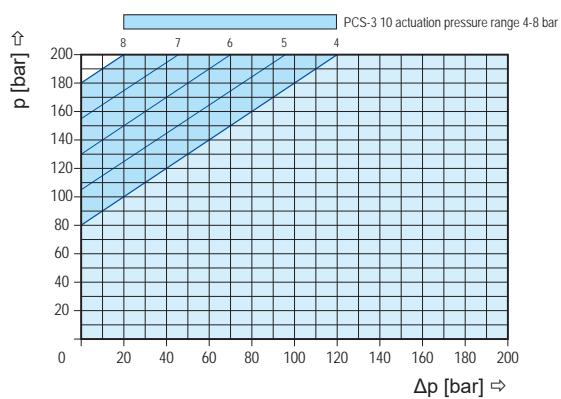


type **PCS-3 10**

function: **NO**  
open when not energized



## pressure-diagram



## **pneumatic specifications**

