

lateral valve

type PCS-3 15

5-PCS-3 15

valve type with pilot valve

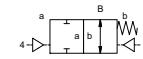
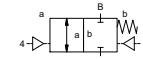
**2/2 way valve** externally controlled**pressure range** PN 0-200 bar**orifice** DN 15 mm**connection** thread/cartridge**function** valve

normally closed

symbol **NC**

valve

normally open

symbol **NO****design** pressure balanced, with spring return**body materials** (1) aluminium

(3)

(2) brass

(4)

(3) stainless steel

valve seat synthetic resin on metal**seal materials** HNBR

metal on metal

FPM, EPDM

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

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

general specifications

ports	PCS-3	without valve body	with valve body thread G 1/2 - G 3/4
function	NC	NO	
pressure range	bar	0-150 (0-200 see pressure diagram)	NO (see pressure diagram)
K_v value	m ³ /h	6,0	
vacuum	leak rate		
pressure-vacuum	P ₁ ↔ P ₂		
back pressure	P ₂ > P ₁		available upon request
media	gaseous - liquid - highly viscous - gelatinous - pasty - contaminated		
abrasive media damping			version available
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 temperature 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-3 2,4	PCS-3 3,5
additional equipment			valve body

electrical specifications

nominal voltage	U _n DC 24 V	special voltage upon request
	U _n AC 230 V 50 Hz	special voltage upon request
power consumption	DC 4,8 W	2,5 W
protection	AC pick up 11,0 VA holding 8,5 VA	
energized duty rating	IP65 (P54) acc. DIN 40050	
connection	ED 100%	
optional	plug acc. DIN EN 175301-803 form B, 4 positions x90° / wire diameter 6-8 mm	
additional equipment	M12x1 connector acc. DESINA	connector acc. VDMA
max. temperature	illuminated plug with varistor	
explosion proof	media 60°C	
	ambient 50°C	
	E Ex e II T5 nominal voltage U _n	DC 24 V 3,25 W
	power consumption	AC 230 V 50 Hz 2,90 W

pneumatic specifications

actuation pressure range	bar	4-10
air consumption	cm ³ /stroke	PCS-3 58
cycle speed		main valve speed variable by throttles on pilot valve
control		via 5/2 way pilot valve
pilot valve interface		
actuator ports		
	2/4	G 1/8

hydraulic specifications

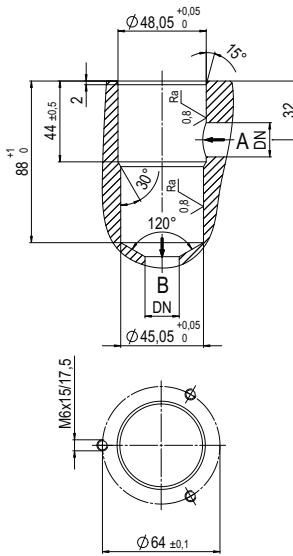
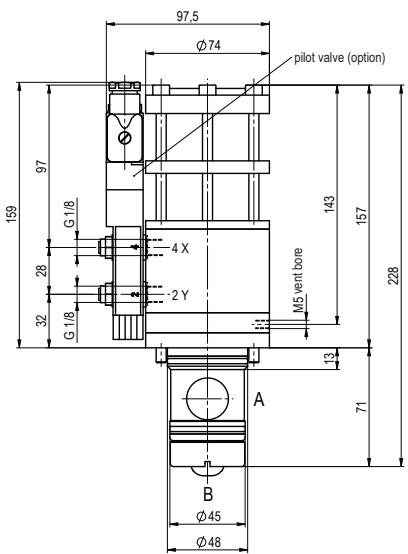
actuation pressure range	bar	10-30
control		preferably 4/2 way control valve
actuator ports	X/Y	G 1/4 via adapter
by media		NPT 1/4 via adapter

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

type **PCS-3 15**

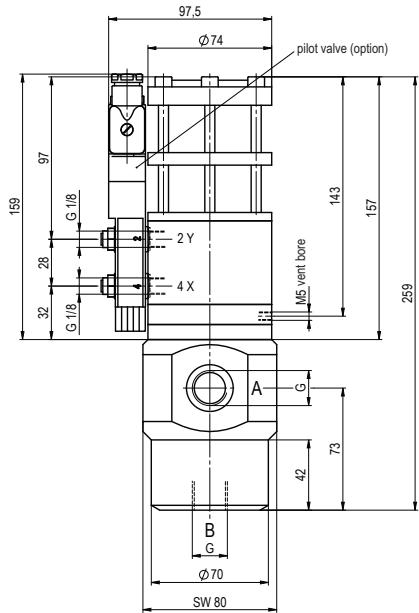
function: **NC**
closed when not energized

drilling design for cartridge

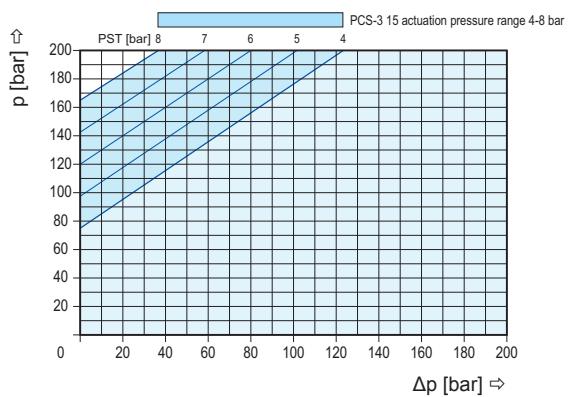


type **PCS-3 15**

function: **NO**
open when not energized



pressure-diagram



pneumatic actuation

