

5-PCS-1 10
5-PCS-2 10

valve type with pilot valve



lateral valve

type **PCS-1 10**
PCS-2 10

2/2 way valve externally controlled

pressure range PN 0-200 bar

orifice DN 10 mm

connection thread/cartridge

function valve

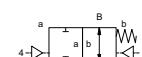
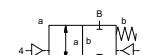
normally closed

symbol **NC**

valve

normally open

symbol **NO**



design pressure balanced, with spring return

body materials

① aluminium

③

②

④

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-1 without valve body	options
	PCS-2 without valve body	with valve body thread G 3/8
function	NC	with valve body thread G 3/8
pressure range	PCS-1 0-50 (0-200 see pressure diagram)	NO
	PCS-2 0-100 (0-200 see pressure diagram)	NO (see pressure diagram)
K_v value	3,0	
vacuum		
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		version available
damping		
flow direction	opening	
switching cycles	closing by throttles on pilot valve	
switching time	A↔B as marked	bi-directional upon request
media temperature	1/min	
ambient temperature	700	
flush ports	ms	
leak ports	opening 30-3000 closing 30-3000	
limit switches	°C	remote mounted pilot valve outside temperature range of media max. 150 °C
manual override	direct mounted pilot valve 60	
approvals	°C	
mounting	direct mounted pilot valve 50	
weight		
additional equipment		

electrical specifications

nominal voltage	U _n DC 24 V	options
	U _n 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	illuminated plug with varistor	
max. temperature	media 60°C	
	ambient 50°C	
explosion proof	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	options
air consumption	cm ³ /stroke PCS-1 7 PCS-2 17	
cycle speed	main valve speed variable by throttles on pilot valve	
control	via 5/2 way pilot valve	
pilot valve interface		
actuator ports		

hydraulic specifications

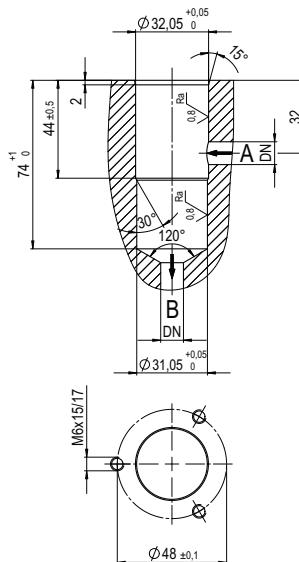
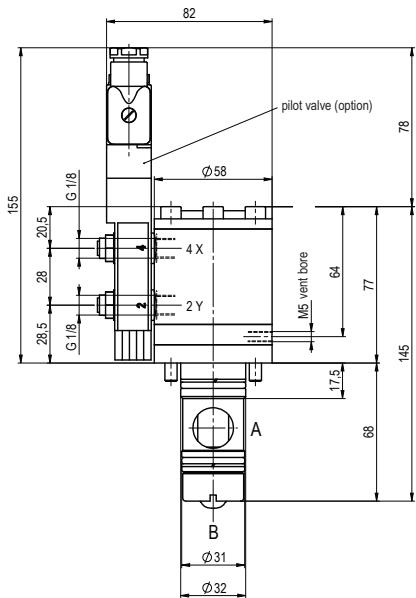
actuation pressure range	bar 10-30	options
control	preferably 4/2 way control valve	>30 bar upon request
actuator ports	G 1/4 via adapter	NPT 1/4 via adapter

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

type PCS-1 10

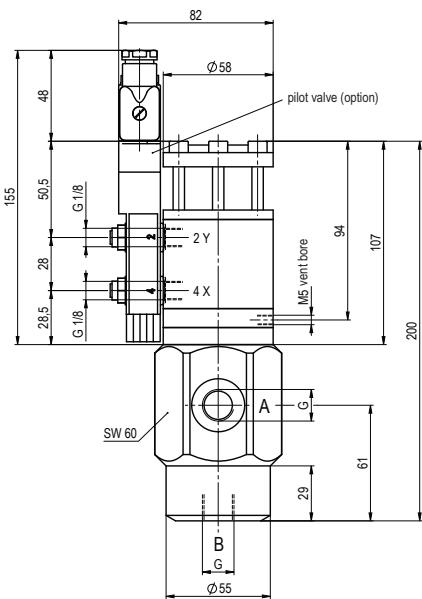
function: **NC**
closed when not energized

drilling design for cartridge

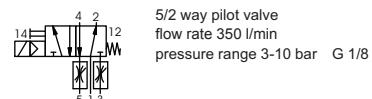


type PCS-2 10

function: **NO**
open when not energized



pneumatic actuation



pressure-diagram

