

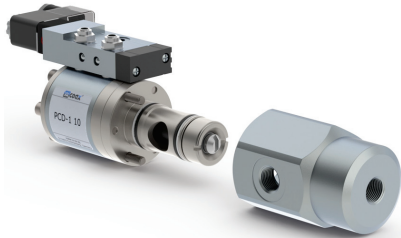
5-PCD-1 10

5-PCD-2 10

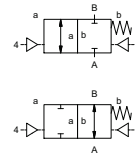
valve type with pilot valve

lateral valve

type PCD-1 10 PCD-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**



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

design pressure balanced, with spring return
body materials ① aluminium ③
 ① ④
 ② ⑥ stainless steel
valve seat synthetic resin on metal metal on metal
seal materials PU, NBR PTFE, PE, 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.

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

general specifications

ports	PCD-1 without valve body	with valve body thread G 3/8
	PCD-2 without valve body	with valve body thread G 3/8
function	NC	NO
pressure range	PCD-1 0-50 (0-200 see pressure diagram)	NO (see pressure diagram)
	PCD-2 0-100 (0-200 see pressure diagram)	
Kv value	m ³ /h 3,0	
vacuum	leak rate < 10 ⁻⁶ mbar·l·s ⁻¹	
pressure-vacuum	P ₁ ↔ P ₂	available upon request
back pressure	P ₂ > P ₁	available upon request
media	gaseous - liquid - highly viscous - gelatinous - pasty	
abrasive media		
damping	opening by throttles on pilot valve	
closing	as marked	bi-directional upon request
flow direction	A ↔ B	
switching cycles	1/min 700	
switching time	ms opening 30-3000 closing 30-3000	
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		available
leak ports		inductive
limit switches		
manual override	via 5/2 way pilot valve	
approvals		WAZ
mounting		mounting holes on valve body 2 x M6
weight	kg PCD-1 1,1 PCD-2 1,2	PCD-1 1,7 PCD-2 1,8
additional equipment		valve body

options

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
	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	illuminated plug with varistor	
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

options

pneumatic specifications

actuation pressure range	bar 4-10	
air consumption	cm ³ /stroke PCD-1 7 PCD-2 17	
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

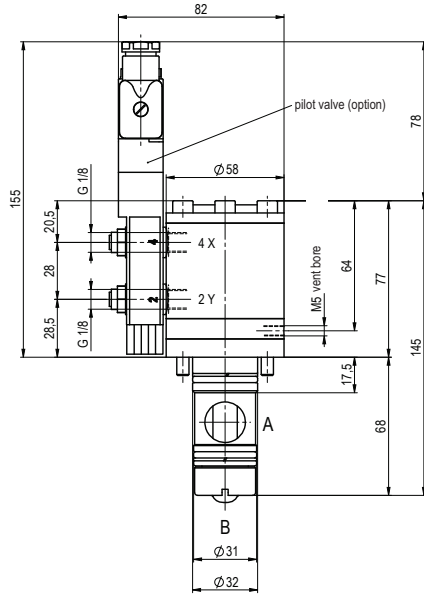
hydraulic specifications

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		

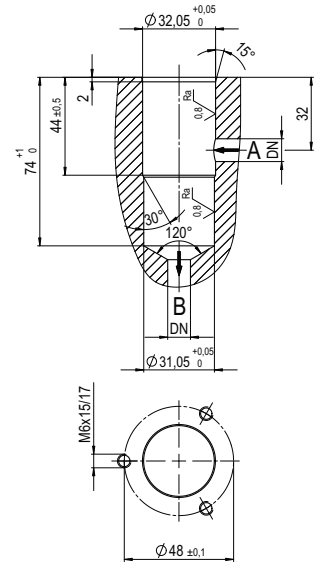
options

type PCD-1 10

function: **NC**
closed when not energized

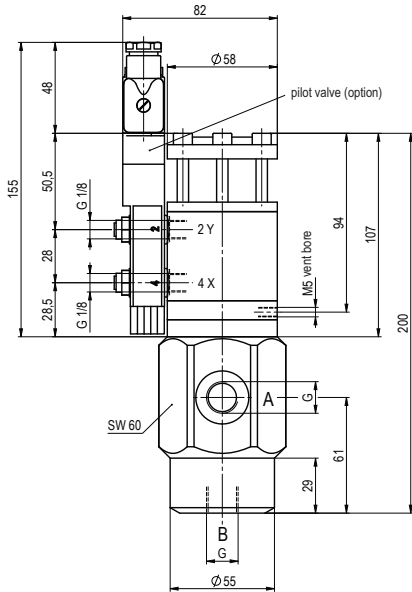


drilling design for cartridge

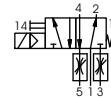


type PCD-2 10

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

