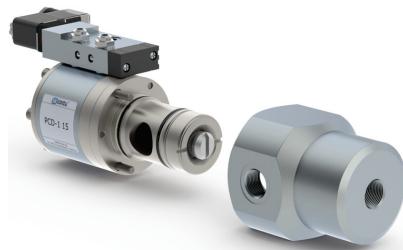


5-PCD-1 15
5-PCD-2 15

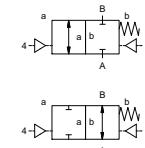
valve type with pilot valve



lateral valve

type **PCD-1 15**
PCD-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	pressure balanced, with spring return
body materials	① aluminium ① brass ②
valve seat	synthetic resin on metal
seal materials	PU, NBR metal on metal 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

general specifications

ports	PCD-1 without valve body	options
	PCD-2 without valve body	with valve body thread G 1/2 - G 3/4
function	NC	with valve body thread G 1/2 - G 3/4
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	6,0	
vacuum		
pressure-vacuum	leak rate $< 10^{-6}$ mbar·l·s ⁻¹	available upon request
back pressure	$P_2 > P_1$	available upon request
media	gaseous - liquid - highly viscous - gelatinous - pasty	
abrasive media		
damping		
flow direction	opening	
switching cycles	closing by throttles on pilot valve	
switching time	A \Rightarrow B as marked	bi-directional upon request
media temperature	1/min 300	
ambient temperature	ms opening 100-3000 closing 100-3000	
flush ports	${}^{\circ}\text{C}$ direct mounted pilot valve 60	remote mounted pilot valve outside temperature range of media max. 150 °C
leak ports	${}^{\circ}\text{C}$ direct mounted pilot valve 50	
limit switches		
manual override		available
approvals		inductive
mounting	via 5/2 way pilot valve	
weight	kg PCD-1 1,8 PCD-2 2,1	WAZ
additional equipment		mounting holes on valve body 2 x M8
		PCD-1 2,9 PCD-2 3,2
		valve body

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 PCD-1 14 PCD-2 36	
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

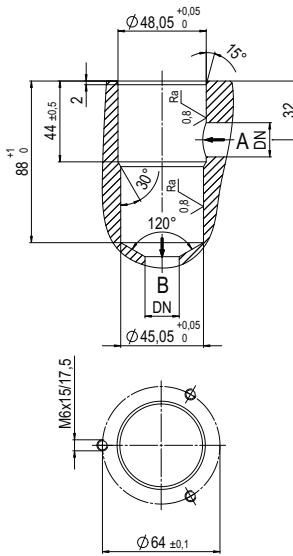
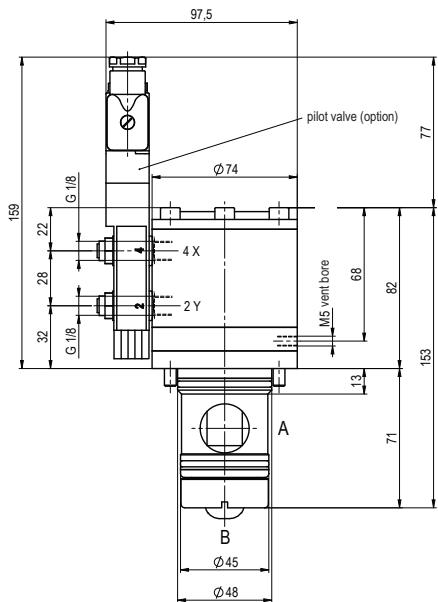
actuation pressure range	bar 10-30	options
control	preferably 4/2 way control valve	>30 bar upon request
actuator ports	X/Y G 1/4 via adapter	NPT 1/4 via adapter

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

type **PCD-1 15**

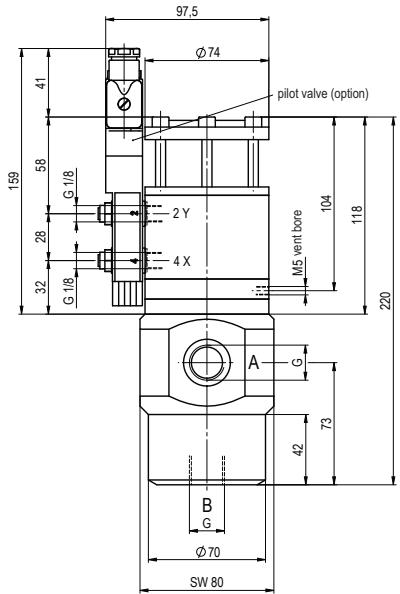
function: **NC**
closed when not energized

drilling design for cartridge



type **PCD-2 15**

function: **NO**
open when not energized



pressure-diagram

