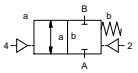
lateral valve
type PCD-H 10

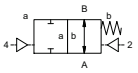
5-PCD-H 10

valve type with pilot valve

2/2 way valve	**externally controlled**
pressure range	PN 0-500 bar
orifice	DN 10 mm
connection	thread
function	valve normally closed symbol **NC**



	valve normally open symbol **NO**



design	pressure balanced, with spring return	
body materials	① brass	③
	③	⑤
	④	⑥ stainless steel
valve seat	synthetic resin on metal	
seal materials	NBR	PTFE, FPM, CR, 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

⚠ 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.

general specifications

			options
ports	PCD-H	threads G 3/8	
function		NC	NO
pressure range	bar	0-500	
Kv value	m³/h	1,5	
vacuum	leak rate		
pressure-vacuum	$P_1 \Leftrightarrow P_2$		
back pressure	$P_2 > P_1$		
media		gaseous - liquid	
abrasive media			
damping	opening		
	closing		
flow direction	A ⇨ B	see pressure range	
switching cycles	1/min	130	
switching time	ms	opening 30-3000 closing 30-3000	
media temperature	°C	direct mounted pilot valve 60	remote mounted pilot valve outside tempe-
ambient temperature	°C	direct mounted pilot valve 50	ratur range of media max. 150 °C
flush ports			
leak ports			
limit switches			inductive
manual override			
approvals			
mounting			
weight	kg	9,0	
additional equipment			

electrical specifications

			options
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		iluminated 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

			options
actuation pressure range	bar	4-10	
air consumption	cm³/stroke	7	
cycle speed		main valve speed variable by throttleson pilot valve	
control		preferably 5/2 way pilot valve	
pilot valve interface			
actuator ports	2/4	G 1/8	

hydraulic specifications

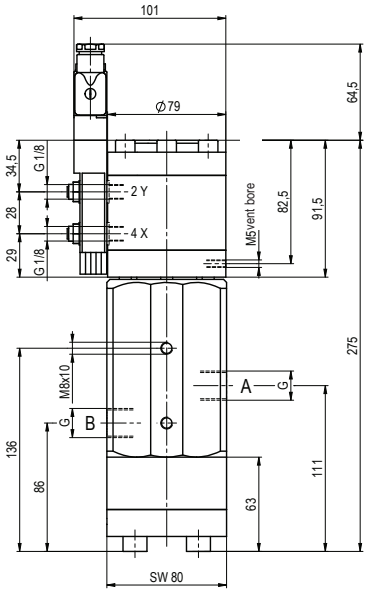
			options
actuation pressure range			
control			
actuator ports			
by media			

- specifications not highlighted are standard

specifications highlighted in grey are optional

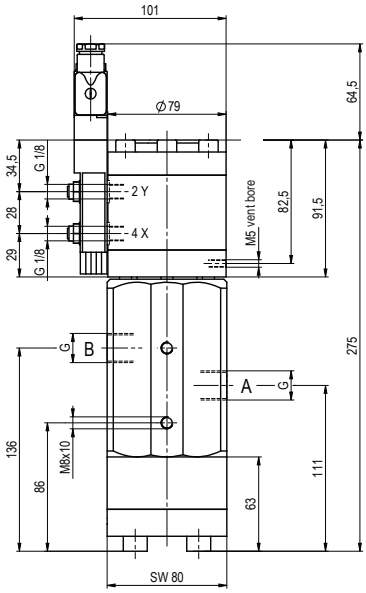
type **PCD-H 10**

function: **NC**
closed when not energized

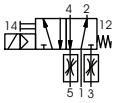


type **PCD-H 10**

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