coax® data sheet - lateral valve

type PCD 10 DR

09/2022

⚠ 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
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- type of actuation

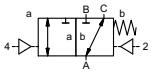
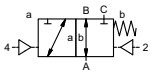
details needed for pneumatic actuation

- nominal voltage
- type of protection
- actuation pressure range min/max
- 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. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

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

3/2 way valve	**externally controlled**	
pressure range	PN 0-250 bar	
orifice	DN 10 mm	
connection	thread	
function	valve normally closed (A ▶B) symbol **NC**	
	valve normally open (A ▶B) symbol **NO**	
operating principle	pressure balanced, with spring return, intersecting switch-over	
body material	① brass	②
	③	⑤
	④	⑥ stainless steel
valve seat	synthetic materials on metal	
seal materials	NBR	PTFE, FPM, CR, EPDM

	general specifications		**options**
ports	PCD	threads G 3/8	
function		NC	NO
pressure range	bar	0-250	
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			
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
ambient temperature	°C	direct mounted pilot valve 50	temperatur range of media max. 150 °C
flush ports			
leak ports			
limit switches			inductive
manual override		via pilot valve	
approvals			
mounting			
weight	kg	3.5	
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 (actuation pressure range 4-7 bar)
	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, 2 positions x180° / 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		**options**
actuation pressure range	bar	4-8	
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		

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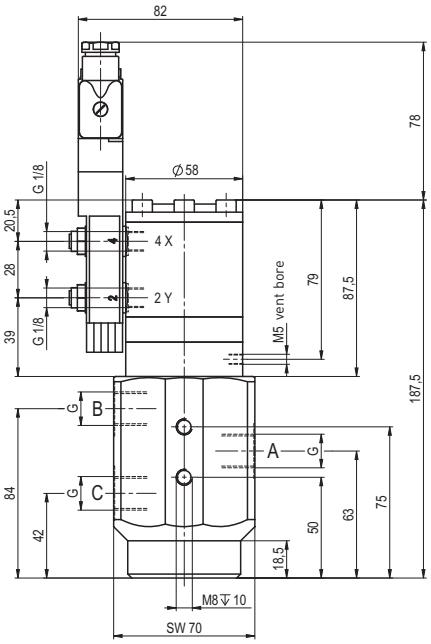
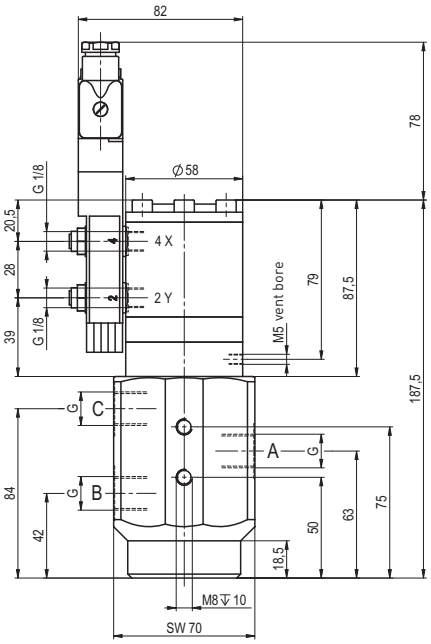
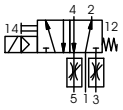
function: **NC**
closed when not energized (A ▶B)



function: **NO**
open when not energized (A ▶B)



pneumatic specifications



5/2 way pilot valve
flow rate 350 l/min
pressure range 3-10 bar G 1/8