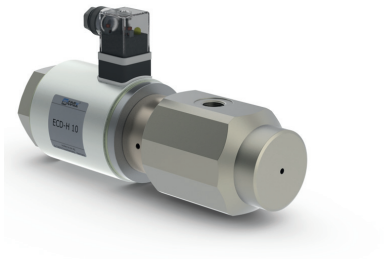
coax® data sheet - lateral valve

type ECD-H 10

08/2022



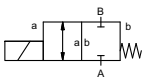
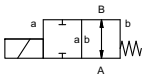
⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

details needed

- orifice
- port
- function NC/NO
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

⚠ 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.

2/2-way valve	**direct acting**	
pressure range	PN 0-200 bar	
orifice	DN 10 mm	
connection	thread	
function	valve normally closed symbol **NC**	
	valve normally open symbol **NO**	
operating principle	pressure balanced, with spring return	
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	ECD-H	threads G 3/8	
function		NC	NO
pressure range	bar	0-200	0-150
Kv value	m^3/h	1.5	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
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	as marked	bi-directional upon request
switching cycles	1/min	100	
switching time	ms	opening 250 closing 110	
media temperature	°C	DC: -20 to +100	-20 to +160
		AC: -20 to +100	-20 to +160
ambient temperature	°C	DC: -20 to +60 AC: -20 to +60	
limit switches			inductive
manual override			
approvals			
mounting			
weight	kg	6.0	
additional equipment			

	electrical specifications		**options**
nominal voltage	U_n	DC 24 V +5%/-10%	special voltage upon request
	U_n	AC 230 V +5%/-10% 40-60 Hz	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	above 100 °C with separate rectifier
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form A, 4 positions x90° / wire diameter 6-8 mm	terminal box M16x1,5
optional			
additional equipment		illuminated plug with varistor	
current consumption	N-coil		
	H-coil	DC 24 V 2.64 A	
		AC 230 V 40-60 Hz 0.30 A	
explosion proof			terminal box M16x1,5
			⟨Ex⟩ II 3G Ex ec IIC T3 Ta -20...+80°C Gc
			⟨Ex⟩ II 3D Ex tc IIIC T195°C Ta -20...+80°C Dc
			⟨Ex⟩ II 3G Ex h IIC T3 Gc
			⟨Ex⟩ II 3D Ex h IIIC T195°C Dc
limit switches		inductive (I)	normally open-PNP
		inductive (B)	normally open-PNP

specifications not highlighted are standard
specifications highlighted in grey are optional

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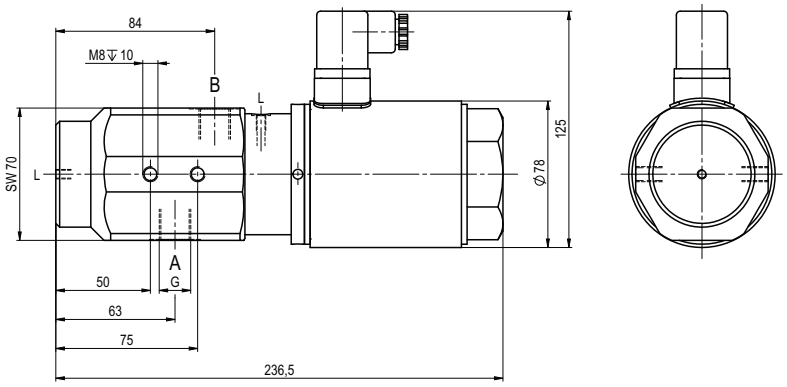
type ECD-H 10

function: **NC**
closed when not energized



function: **NO**
open when not energized