coax® data sheet - lateral valve

type KBS 15

06/2024

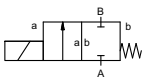
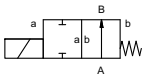
⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

details needed

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

⚠ 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 0-500 bar	
orifice	DN 1,5-3 mm	
connection	thread	
function	valve normally closed symbol **NC**	
	valve normally open symbol **NO**	
operating principle	direct acting, with spring return	
body material	① brass	②
	③ brass, nickel plated	⑤
	④	⑥ stainless steel
valve seat	synthetic materials on metal	
seal materials	NBR	FPM

general specifications			**options**
ports	KBS	threads G 3/8	special threads
function		NC	NO
pressure range	bar	| 250 | 400 | 500 |	| 100 | 300 | 500 |
	DN	| 3 | 2 | 1,5 |	| 3 | 2 | 1,5 |
Kv value	l/min	| 5,2 | 1,3 | 1,1 |	| 5,2 | 1,3 | 1,1 |
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		upon request
media		gaseous - liquid	
abrasive media			
damping	opening		
	closing		
flow direction	A ⇨ B	as marked	bi-directional upon request
switching cycles	1/min	270	
switching time	ms	opening 60	
		closing 160	
media temperature	°C	DC: -20 to +100	
		AC: -20 to +100	
ambient temperature	°C	DC: -20 to +80	
		AC: -20 to +80	
limit switches			
manual override			
approvals			WAZ
mounting		mounting holes	
weight	kg	4,2	
additional equipment			upon request

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	
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100% (upon request)	
connection		terminal box M16x1,5	plug acc. DIN EN 175301-803 form A, 4 positions x90° / wire diameter 6-8 mm
optional	M12x1	connector acc. DESINA	connector acc. VDMA
additional equipment			
current consumption	1-coil operation		DC 24 V 1,67 A AC 230 V 40-60 Hz 0,15 A
	2-coil operation	DC 24 V 4,21 A / AC 230 V 0,58A DC 24 V 1,54 A / AC 230 V 0,15A	pick up power holding power
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			

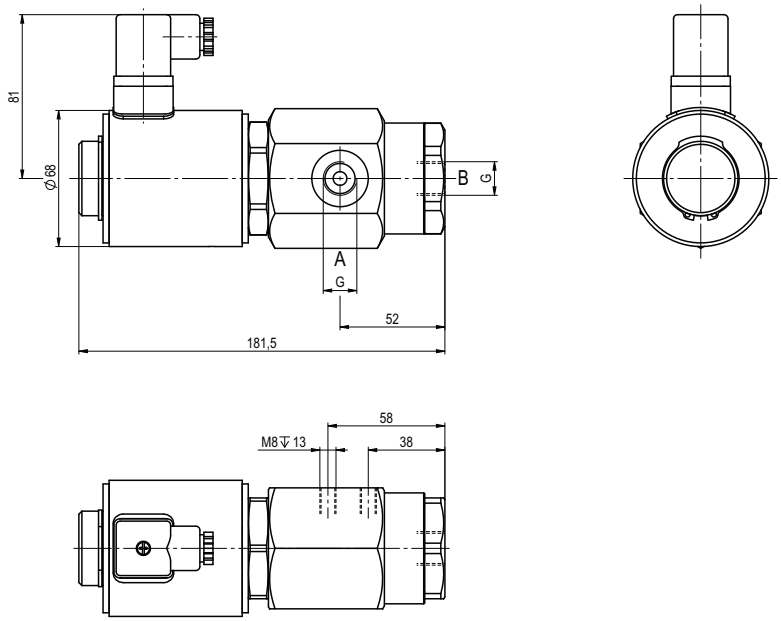
specifications not highlighted are standard
specifications highlighted in grey are optional

müller co-ax gmbh • Friedrich-Müller-Str. 1 • 74670 Forchtenberg • Germany • fon +49(0)7947/828-0 • fax +49(0)7947/828-11 • Email info@co-ax.com

coax® data sheet - lateral valve

type KBS 15

function: **NC**
closed when not energized



function: **NO**
open when not energized