coax® data sheet - coaxial valve

type MK 10



08/2022



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

details needed

- 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.

connection	thre
function	valv
	nor
	syn
	valv
	nor
	sym
operating principle	pre
body material	1
•	3
	_
	4
	0
valve seat	syn
seal materials	NB
	gen
ports	MK
function	_
pressure range	bar
Kv value	m³/h
vacuum	leak
pressure-vacuum	
back pressure media	P2 >
abrasive media damping	opei
aamping	clos
flow direction	A⇔
switching cycles	1/m
switching time	ms
media temperature	°C
ambient temperature	°C
limit avvitabaa	
limit switches manual override	
approvals	_
mounting weight	
weight additional equipment	kg
	ele
nominal voltage	Un
actuation	Un DC
	AC
insulating rating	Н
protection	IP65
energized duty rating connection	ED
entional	1410
optional additional equipment	M12
current consumption	N-c
•	
	H-c

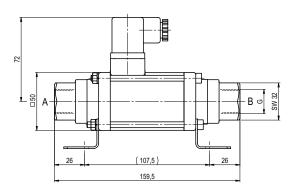
2/2-way valve	direct ac	ting				
pressure range	PN 0-40 bar					
orifice	DN 10 mm					
connection	thread					
function	valve					
	normally closed					
	symbol NC					
	valve					
	normally	normally open				
	symbol	NO LATE	A			
operating principle	pressure	balanced, with spring return				
body material	① brass		2			
	③ brass, nickel plated		(5)			
	(4)		6 stainless steel			
	① alumi	nium				
valve seat	synthetic					
seal materials	NBR		FPM, CR, EPDM			
	general s	specifications	options			
ports	MK	threads G 1/4 - G 3/4	special threads			
function		NC	NO			
function pressure range	bar	0-16 / 0-40	INU			
Kv value	m³/h	2.5				
vacuum	leak rate	2.5	< 10 ⁻⁶ mbar•l•s ⁻¹			
pressure-vacuum	P1⇔ P2		upon request			
back pressure media	P ₂ > P ₁	gaseous - liquid - contaminated	available (max. 16 bar)			
		gassas tiquia contaminatea				
abrasive media damping	opening					
uamping	closing					
flow direction	A⇔B	as marked	bi-directional (max. 16 bar)			
switching cycles switching time	1/min ms	200 opening 25				
		closing 25				
media temperature	°C	DC: -10 to +100 AC: -10 to +100	-30 to +120 -30 to +120			
ambient temperature	°C	DC: -10 to +80	-30 (0 +120			
Particular and the co		AC: -10 to +80				
limit switches manual override			inductive			
approvals			LR/DNV/WAZ			
mounting weight	kg	MK 1.5	mounting brackets			
additional equipment	ng	MIN 1.3	upon request			
	.1	lifii				
	electrica	l specifications	options			
nominal voltage	Un Un	DC 24 V +5%/-10% AC 230 V +5%/-10% 40-60 Hz	special voltage upon request special voltage upon request			
actuation	DC	direct-current magnet	special voltage upon request			
	AC	direct-current magnet with integrated				
		rectifier				
insulating rating	Н	180°C				
protection energized duty rating	IP65 ED	100%				
connection	ED	plug acc. DIN EN 175301-803 form A, 4	terminal box M16x1,5			
		positions x90° / wire diameter 6-8 mm				
optional	M12x1	connector acc. DESINA	connector acc. VDMA			
additional equipment		illuminated plug with varistor				
current consumption	N-coil	DC 24 V 1.04 A AC 230 V 40-60 Hz 0.13 A				
	H-coil	200 1 40 00 112 0.10 A	DC 24 V 1.28 A			
ovalosion aroof			AC 230 V 40-60 Hz 0.16 A			
explosion proof			terminal box M16x1,5 ©II 3G Ex ec IIC T3 Ta -20+80°C Gc			
limit switches		inductive (B)	© II 3D Ex h IIIC T195°C Dc normally open-PNP			

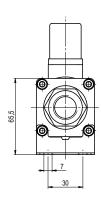
specifications not highlighted are standard specifications highlighted in grey are optional

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function: **NC** closed when not energized





function: **NO** open when not energized

