coax[®] data sheet - coaxial valve

limit switches

type MK 40 DR Ex FK 40 DR Ex

12/2024



🗥 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		
	inlet pressure at A, B or C		
	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.

specifications not highlighted are standard specifications highlighted in grey are optional

/2 way valve	direct ac	ting					
ressure range	PN 0-16	bar					
rifice	DN 40 m	m					
onnection	thread/fl	ange					
unction	valve	ango	BC				
	normally	valve normally closed (A ► B) symbol NC					
	valve normally symbol	open (A ►B) NO					
perating principle	pressure	balanced, with spring retur	n, intersecting switch-over				
ody material	1	, , , , , , , , , , , , , , , , , , , ,	 Image: Steel galvanized 				
	3		-				
	0		(5) without non-ferr. Metals				
	(&) steel,	nickel plated	6 stainless steel				
alve seat	synthetic	materials on metal					
eal materials			PTFE, FPM, CR, EPDM				
cat materials							
	general	specifications	options				
orts	МК	threads G 1 1/2 - G 2	special threads				
	FK	flanges PN 16	special flanges				
Inction ressure range	bar	NC 0-16	NO				
cosare range	Jai		16 / A ⇔ C max. 16 / C ⇔ A max. 16				
v value	m³/h	18,4 [A ⇔ B] 11,5 [A ⇔					
icuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹				
ressure-vacuum ack pressure	P1⇔ P2 P2 > P1	see pressure range	upon request				
edia	12211	gaseous - liquid - highly visco	Dus -				
prasive media		gelatinous - contaminated	upon request				
amping	opening		uponrequest				
	closing						
ow direction	1/min	see pressure range 90					
vitching cycles vitching time	ms	opening 520					
5		closing 150					
edia temperature	°C	DC: -20 to +40	-40 to +40				
mbient temperature	°C	AC: -20 to +40 DC: -20 to +40	-40 to +40 -40 to +40				
inbient temperature	C	AC: -20 to +40	-40 to +40				
mit switches			inductive				
anual override			available				
oprovals ounting			LR/DNV/WAZ mounting brackets				
eight	kg	MK 18,5 FK 23,0	mounting prackets				
dditional equipment			upon request				
	electrica	l specifications	options				
ominal voltage	Un	DC 24V +5%/-10%	• special voltage upon request				
	Un	AC 230 V +5%/-10% 40-60 H					
ctuation	DC AC	direct-current magnet direct-current magnet with s					
		rectifier outside of the explos	sion-proof				
sulating rating	Н	area 180°C					
otection	IP65	100 0					
ergized duty rating	ED	100%					
nnection	M16x1,5	terminal box					
ational							
ptional Iditional equipment							
urrent draw	Un	V-DC 24 200	20 48 98 110 210 220 230				
	In	A 2,05 0,29	2,70 1,07 0,54 0,48 0,25 0,25 0,2				
		🗟 ll 2G Ex mb e ll T4					
plosion proof		🖾 II 2D Ex tD A21 IP65 T130 '	26				

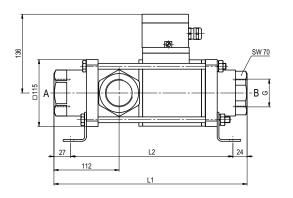
inductive NAMUR

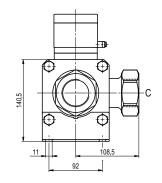
circuit amplifier

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type MK 40 DR Ex FK 40 DR Ex

function: NC closed when not energized (A \triangleright B)

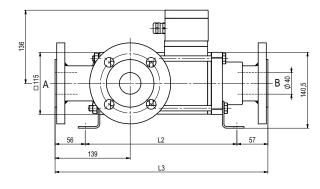


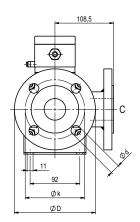


constructive length	L1	L2	L3
standard	332	281	394
with inductive limit switches	373	322	435
with manual override / inductive limit switches	373	322	435

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	150	110	18

function: NO open when not energized (A \triangleright B)





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