coax[®] data sheet - coaxial valve

type MK 32 DR Ex FK 32 DR Ex

12/2024



pressure range orifice connection function operating princi body material 🗥 Above stated body materials refer to the valve port connections that get in contact with the media only! valve seat seal materials details needed orifice ports port function function NC/NO pressure range operating pressure Kv value inlet pressure at A, B or C vacuum flow rate pressure-vacuum 🗖 media back pressure media temperature media ambient temperature abrasive media nominal voltage damping flow direction switching cycles switching time

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.

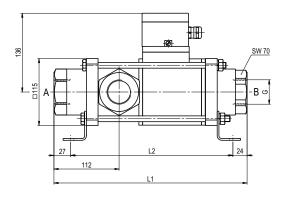
specifications not highlighted are standard specifications highlighted in grey are optional

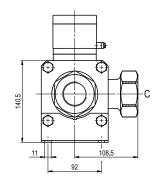
ressure range	direct acting PN 0-40 bar						
rifice	DN 32 mm						
onnection	thread/flange						
Inction	valve B C						
	normally closed (A ►B)						
	valve						
	normally symbol	open (A ►B) 🔽					
perating principle	pressure	balanced, with spring return, i	ntersecting switch-over				
dy material	(1)		② steel galvanized				
	(3)		5 without non-ferr. Metals				
	-	nickel plated	Interest in the second second				
lve seat	synthetic	materials on metal					
eal materials	NBR		PTFE, FPM, CR, EPDM				
	general	specifications	options				
orts	МК	threads G 1 1/4 - G 1 1/2	special threads				
	FK	flanges PN 16 / 40	special flanges				
nction	har	NC	NO				
essure range	bar $\frac{0-16 / 0-40}{A \Leftrightarrow B \text{ max. } 40 / B \Leftrightarrow A \text{ max. } 16 / A \Leftrightarrow C \text{ max. } 40 / C \Leftrightarrow A \text{ max. } 16$						
v value	m³/h	14,1 [A ⇔ B] 8,9 [A ⇔ C]					
cuum	leak rate		< 10 ⁻⁶ mbar•l•s ⁻¹				
essure-vacuum ck pressure	$P_1 \Leftrightarrow P_2$ $P_2 > P_1$	see pressure range	upon request				
edia	12211	gaseous - liquid - highly viscous gelatinous - contaminated	-				
rasive media			upon request				
mping	opening						
w direction	closing	see pressure range					
vitching cycles	1/min	120					
vitching time	ms	opening 440					
	00	closing 250	(0) (0)				
edia temperature	°C	DC: -20 to +40 AC: -20 to +40	-40 to +40 -40 to +40				
mbient temperature	°C	DC: -20 to +40	-40 to +40				
		AC: -20 to +40	-40 to +40				
nit switches			inductive				
anual override provals			available LR/DNV/WAZ				
ounting			mounting brackets				
eight	kg	MK 18,0 FK 22,0					
ditional equipment			upon request				
	electrical specifications		options				
ominal voltage	Un Un	DC 24 V +5%/-10% AC 230 V +5%/-10% 40-60 Hz	special voltage upon request special voltage upon request				
tuation	DC	direct-current magnet	special voltage apointequest				
	AC	direct-current magnet with sepa rectifier outside of the explosion					
sulating rating	H	area 180°C					
otection	H IP65	100 0					
ergized duty rating	ED	100%					
nnection	M16x1,5	terminal box					
tional ditional equipment							
rrent draw	Un	V-DC 24 200	20 48 98 110 210 220 230				
Circ ur dw	In	A 2,05 0,29	2,70 1,07 0,54 0,48 0,25 0,25 0,21				
plosion proof		🗟 II 2G Ex mb e II T4					
· · · · · · · · · · · · · · · · · · ·		🐼 II 2D Ex tD A21 IP65 T130 °C					
		🕞 II 2G Ex h IIC T4 Gb					
		ⓑ II 2G Ex h IIC T4 Gb ⓑ II 2D Ex h IIIC T130°C Db					

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type MK 32 DR Ex FK 32 DR Ex

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





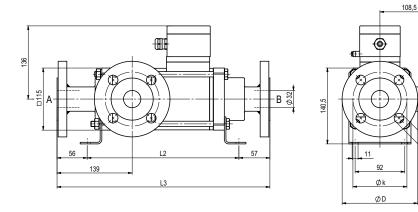
constructive length	L1	L2	L3
standard	332	281	394
with inductive limit switches	373	322	435
with manual override / inductive limit switches	373	322	435

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	140	100	18
40	EN 1092-2	140	100	18

С

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



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