coax[®] data sheet - coaxial valve

limit switches

type MK 40 Ex FK 40 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			
	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

2/2-way value direct acting pressure range PN 0-63 bar (N0: 0-40 bar) orifice DN 40 mm connection thread/flange function valve normally closed a symbol NC a valve a normally open a symbol NO a			
orifice DN 40 mm connection thread/flange function valve normally closed symbol NC valve normally open			
connection thread/flange function valve a normally closed a b valve a b valve a b valve a b valve b b valve b b valve b b valve b b			
function valve normally closed symbol NC valve normally open			
normally closed symbol NC valve normally open			
normally closed symbol NC valve normally open			
symbol NC A A A A A A A A A A A A A A A A A A			
normally open			
symbol NO			
operating principle pressure balanced, with spring return			
body material ① brass ② steel galvanized			
③ brass, nickel plated ⑤ without non-fer			
	. Metats		
(4) steel, nickel plated (6) stainless steel			
valve seat synthetic materials on metal			
seal materials NBR PTFE, FPM, CR, EP	пм		
general specifications options			
ports MK threads G 1 1/2 - G 2 special threads FK flanges PN 16 / 40 / 100 special flanges			
function NC NO			
pressure range bar <u>0-16 / 0-40 / 0-63</u> <u>0-16 / 0-40</u>			
Kv value m'/h 18,4			
vacuum leak rate < 10 ⁻⁶ mbar • l • s ⁻¹ pressure-vacuum P1⇔ P2 upon request			
pressure-vacuum $P_1 \Leftrightarrow P_2$ upon request back pressure $P_2 > P_1$ available (max. 16 bar)			
media gaseous - liquid - highly viscous -			
abrasive media gelatinous - contaminated upon request			
damping opening opening			
closing available			
flow direction A ⇔ B as marked bi-directional (max. 16 switching cycles 1/min 90	barJ		
switching time ms opening 520			
closing 150			
media temperature °C DC: -20 to +40 -40 to +40 AC: -20 to +40 -40 to +40 -40 to +40			
ambient temperature °C DC: -20 to +40 -40 to +40			
AC: -20 to +40 -40 to +40			
limit switches inductive available			
approvals LR/DNV/WAZ			
mounting mounting brackets			
weight kg MK 14,0 FK 18,0 additional equipment upon request			
	options		
electrical specifications options			
electrical specifications options nominal voltage Un DC 24 V +5%/-10% special voltage upon re	equest		
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inductive NAMUR

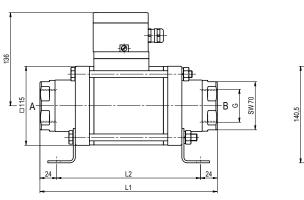
circuit amplifier

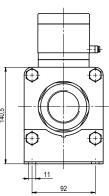
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type MK 40 Ex

FK 40 Ex

function: **NC** closed when not energized

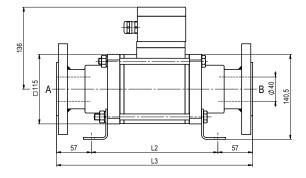


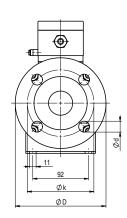


constructive length	L1	L2	L3
standard	258	210	324
with inductive limit switches	299	251	365
with manual override / inductive limit switches	299	251	365

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	150	110	18
40	EN 1092-1	150	110	18
100	EN 1092-1	170	125	22

function: **NO** open when not energized





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