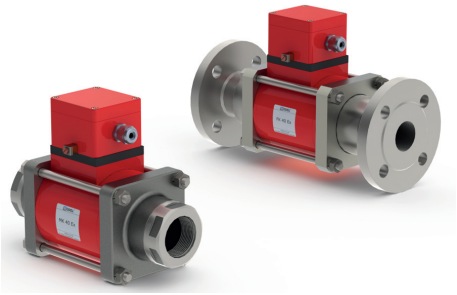
coax® data sheet - coaxial valve

type MK 40 Ex
FK 40 Ex

08/2021



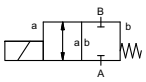
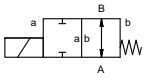
⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

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.

2/2-way valve	**direct acting**	
pressure range	PN 0-64 bar (NO: 0-40 bar)	
orifice	DN 40 mm	
connection	thread/flange	
function	valve normally closed symbol **NC**	
	valve normally open symbol **NO**	
design	pressure balanced, with spring return	
body materials	① brass ③ brass, nickel plated ④ steel, nickel plated	② steel galvanized ⑤ without non-ferr. Metals ⑥ stainless steel
valve seat	synthetic resin on metal	
seal materials	NBR	PTFE, FPM, CR, EPDM

	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	0-16 / 0-40 / 0-64	0-16 / 0-40
Kv value	m^3/h	18,4	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$		available (max. 16 bar)
media		gaseous - liquid - highly viscous - gelatinous - contaminated	
abrasive media			upon request
damping	opening		
	closing		available
flow direction	A ⇨ B	as marked	bi-directional (max. 16 bar)
switching cycles	1/min	90	
switching time	ms	opening 520	
		closing 150	
media temperature	°C	DC: -20 to +40	
		AC: -20 to +40	
ambient temperature	°C	DC: -20 to +40	
		AC: -20 to +40	
limit switches			inductive
manual override			available
approvals			LR/GL/WAZ
mounting			mounting brackets
weight	kg	MK 14,0 FK 18,0	
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 separate rectifier outside of the explosion-proof area	sand sealed rectifier
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection	M16x1,5	terminal box	
optional			
additional equipment			
current consumption	U_n	V-DC 24 200	20 48 98 110 210 220 230
	I_n	A 2,05 0,29	2,72 1,07 0,54 0,48 0,25 0,25 0,21
explosion proof		II 2 G Ex mb e II T4 II 2 D Ex tD A21 IP65 T130 °C PTB 03 ATEX 2051 X	
limit switches		inductive NAMUR	circuit amplifier

■ specifications not highlighted are standard
specifications highlighted in grey are optional

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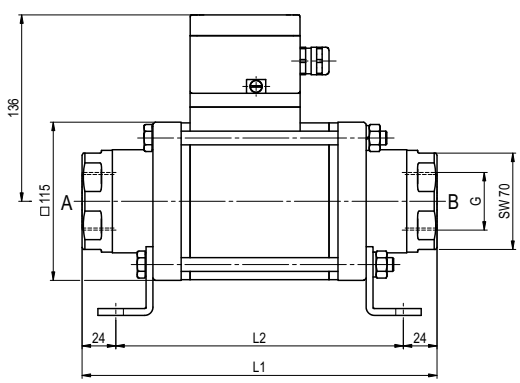
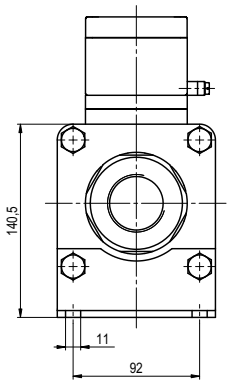
type MK 40 Ex
FK 40 Ex

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