coax® data sheet - coaxial valve

type MK 15 Ex
FK 15 Ex

03/2026



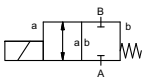
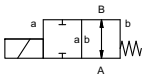
⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

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.

2/2-way valve	**direct acting**	
pressure range	PN 0-100 bar	
orifice	DN 15 mm	
connection	thread/flange	
function	valve normally closed symbol **NC**	
	valve 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-ferr. Metals
	④ steel, nickel plated	⑥ stainless steel
valve seat	synthetic materials on metal	
seal materials	NBR	PTFE, FPM, CR, EPDM

	general specifications		**options**
ports	MK	threads G 3/8 - G 3/4	special threads
	FK	flanges PN 16 / 40 / 100	special flanges
function		NC	NO
pressure range	bar	0-16 / 0-40 | 0-63 / 0-100	> 100 bar upon request
Kv value	m^3/h	6,0 |2,5	
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	200	
switching time	ms	opening 80	
		closing 80	
media temperature	°C	DC: -30 to +40	-30 to +120
		AC: -30 to +40	-30 to +120 (≤98 V max. +100)
ambient temperature	°C	DC: -30 to +40	-30 to +120
		AC: -30 to +40	-30 to +120 (≤98 V max. +100)
limit switches			inductive
manual override			available
approvals			LR/DNV/WAZ
mounting			mounting brackets
weight	kg	MK 3,8 FK 5,0	
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 integrated rectifier	
insulating rating	H	180°C	
protection	IP65		
energized duty rating		refer to ATEX / IECEx operating manual	
connection	DC	terminal box M16x1,5	
	AC	terminal box 3 m flying leads	
optional			
additional equipment			
current draw	T_4 U_n	V-DC 24 200	20 48 98 110 125 220
	T_4 I_n	A 2,16 0,27	2,29 1,09 0,49 0,44 0,40 0,24
	T_3 U_n	V-DC 24 200	20 48 98 110 125 220
	T_3 I_n	A 2,16 0,27	2,29 1,09 0,60 0,55 0,50 0,24
explosion proof		Ⓔx II 2G Ex eb mb IIC T4 Gb	Ⓔx II 2G Ex h IIC T4 Gb
		Ⓔx II 2D Ex mb tb IIIC T135°C Db	Ⓔx II 2D Ex h IIIC T130°C Db
		Ⓔx II 2G Ex eb mb IIC T3 Gb	Ⓔx II 2G Ex h IIC T3 Gb
		Ⓔx II 2D Ex mb tb IIIC T185°C Db	Ⓔx II 2D Ex h IIIC T185°C Db
limit switches		inductive NAMUR	circuit amplifier

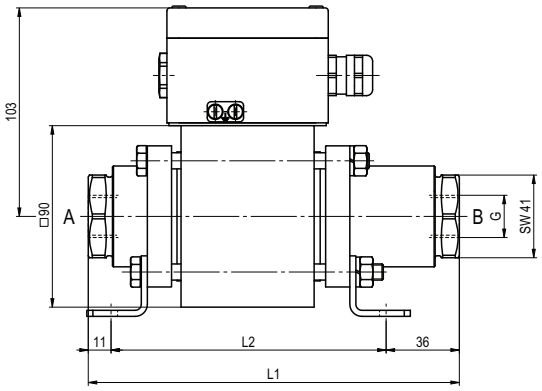
■ specifications not highlighted are standard
specifications highlighted in grey are optional

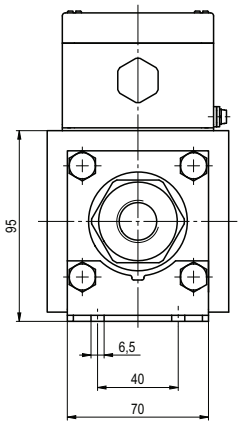
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type MK 15 Ex
FK 15 Ex

function: **NC**
closed when not energized



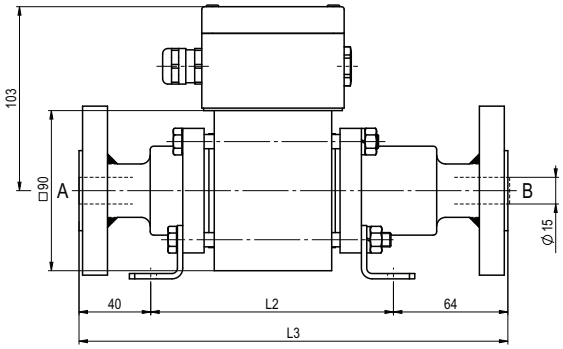


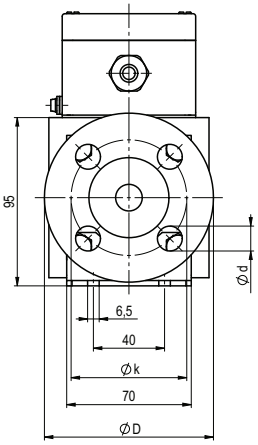
constructive length	L1	L2	L3
standard	184	137	241
with inductive limit switches	224	177	281
with manual override / inductive limit switches	224	177	281

If the distance between two neighbouring valve surfaces is less than 100 mm, the specifications of the ATEX / IECEx operating manual for the valve row apply.

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	95	65	14
40	EN 1092-1	95	65	14
100	EN 1092-1	105	75	14

function: **NO**
open when not energized





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