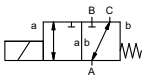
coax® data sheet - coaxial valve

type MK 20 DR TÜV
FK 20 DR TÜV

03/2022

3/2 way valve	**direct acting**
pressure range	PN 0-40 bar
orifice	DN 20 mm
connection	thread/flange
function	valve normally closed (A ►B) symbol **NC**



operating principle	pressure balanced, with spring return, intersecting switch-over
body material	⑦ TÜV (steel, galvanized)

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

valve seat	synthetic materials on metal
seal materials	FPM, PTFE

details needed

- orifice
- port
- function NC
- operating pressure
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

general specifications		**options**
ports	MK	threads G 3/4 - G 1 1/4
	FK	flanges PN 40
function		NC
pressure range	bar	0-40
		A ⇨ B max. 40 / B ⇨ A max. 16 / A ⇨ C max. 40 / C ⇨ A max. 40
Kv value	m³/h	6,7
vacuum	leak rate	
pressure-vacuum	$P_1 \Leftrightarrow P_2$	
back pressure	$P_2 > P_1$	see pressure range
media		liquid fuels
abrasive media		
damping	opening	
	closing	
flow direction		see pressure range
switching cycles	1/min	150
switching time	ms	opening 110
		closing 110
media temperature	°C	DC: -10 to +140
		AC: -10 to +140
ambient temperature	°C	DC: -10 to +60
		AC: -10 to +60
limit switches		mechanical
manual override		
approvals	TÜV	DIN EN ISO 23553-1 + E DIN 32725
mounting		mounting brackets
weight	kg	MK 6,0 FK 8,4
additional equipment		

⚠ 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.

electrical specifications		**options**
nominal voltage	U_n	DC 24 V +5%/-10%
	U_n	AC 230 V +5%/-10% 40-60 Hz
actuation	DC	direct-current magnet
	AC	direct-current magnet with separate rectifier
insulating rating	H	180°C
protection	IP65	
energized duty rating	ED	100%
connection	M16x1,5	terminal box
optional		
additional equipment		
current consumption	N-coil	
	H-coil	DC 24 V 2,64 A
		AC 230 V 40-60 Hz 0,30 A
explosion proof		
limit switches		mechanical single pole double throw-SPDT

⚠ 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

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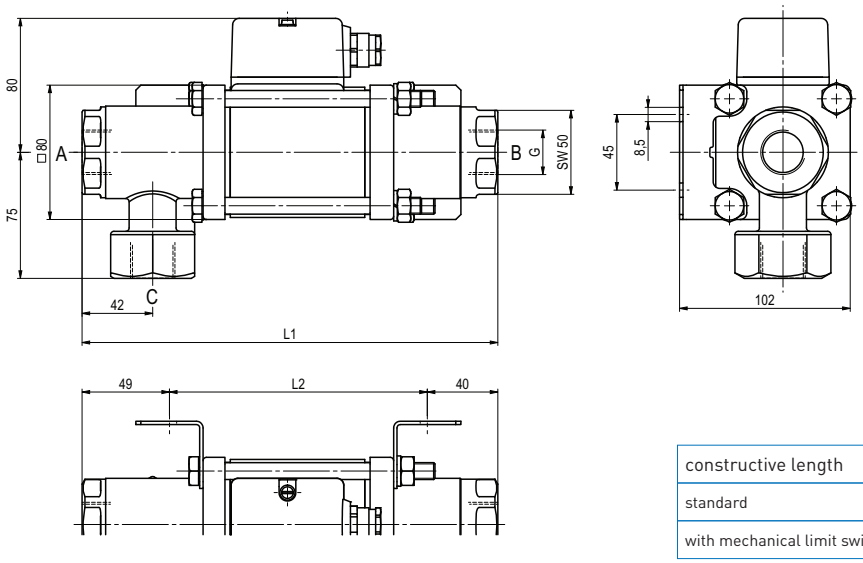
function: **NC**
closed when not energized (A ▶B)



constructive length	L1	L2	L3
standard	247	158	301
with mechanical limit switches	267	178	321

function: **NC**
closed when not energized (A ▶B)