

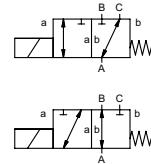
coaxial valve

type MK 40 DR Ex

FK 40 DR Ex



3/2 way valve	direct acting
pressure range	PN 0-16 bar
orifice	DN 40 mm
connection	thread/flange
function	valve normally closed (A ▷ B) symbol NC
	valve normally open (A ▷ B) symbol NO



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

design	pressure balanced, with spring return, intersecting switch-over
body materials	① ③ 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

details needed

- orifice
- port
- function NC/NO
- 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 1 1/2 - G 2	special threads
	FK flanges PN 16	special flanges
function	NC	NO
pressure range	bar 0-16	
	A ⇄ B max. 16 / B ⇄ A max. 16 / A ⇄ C max. 16 / C ⇄ A max. 16	
Kv value	m ³ /h 18,4 [A ⇄ B] 11,5 [A ⇄ C]	
vacuum	leak rate < 10 ⁻⁶ mbar·l·s ⁻¹	
pressure-vacuum	P ₁ ⇄ P ₂	upon request
back pressure	P ₂ > P ₁	
media	see pressure range	
abrasive media	gaseous - liquid - highly viscous -	
damping	gelatinous - contaminated	
opening		upon request
closing		
flow direction	see pressure range	
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 18,5 FK 23,0	
additional equipment		upon request

⚠ 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.

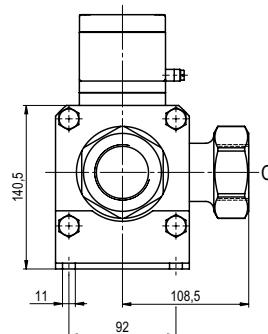
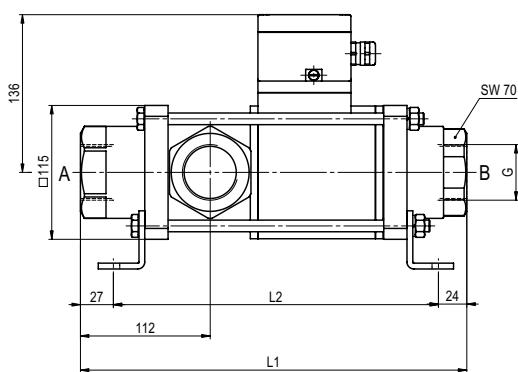
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

electrical specifications		options
nominal voltage	U _n DC 24 V	special voltage upon request
	U _n AC 230 V 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

type MK 40 DR Ex

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



constructive length	L ₁	L ₂	L ₃
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	150	110	18

type FK 40 DR Ex

function: **NO**
open when not energized (A ▶ B)

