

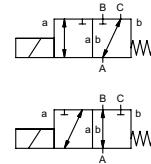
coaxial valve

type MK 50 DR Ex

FK 50 DR Ex



3/2 way valve	direct acting
pressure range	PN 0-16 bar
orifice	DN 50 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 ② steel galvanized ③ ④ steel, nickel plated
	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

ports	MK threads 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. 10 / A ⇔ C max. 16 / C ⇔ A max. 16
Kv value	28,2	
vacuum	leak rate $P_1 \leftrightarrow P_2$ $< 10^{-6}$ mbar·l·s ⁻¹	
pressure-vacuum	$P_2 > P_1$ upon request	
back pressure	see pressure range	
media	gaseous - liquid - highly viscous - gelatinous - contaminated	
abrasive media damping		upon request
opening		
closing		
flow direction	see pressure range	
switching cycles	1/min 40	
switching time	ms opening 400	
	closing 400	
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 31,5 FK 38,5	
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

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 24 210	48 98 110 220

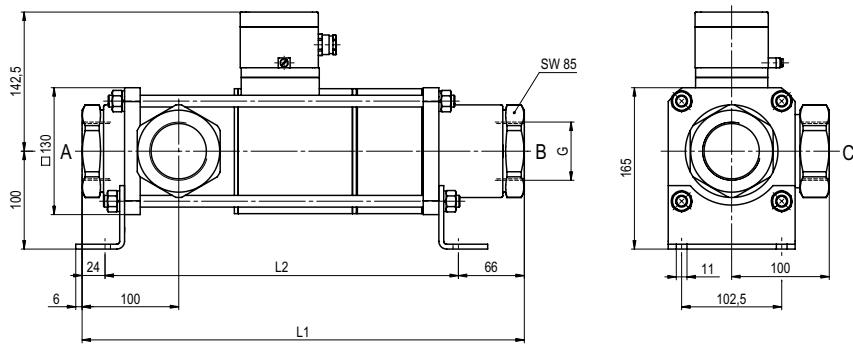
explosion proof	II 2 G Ex mb e II T4
	II 2 D Ex tD A21 IP65 T130 °C
	PTB 03 ATEX 2056 X

limit switches	inductive NAMUR	circuit amplifier

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

type MK 50 DR Ex

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



constructive length	L ₁	L ₂	L ₃
standard	453	363	553
with inductive limit switches	453	363	553
with manual override / inductive limit switches	453	363	553

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	165	125	18

type FK 50 DR Ex

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

