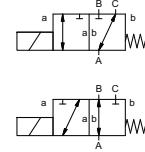


coaxial valve

type MK 50 DR FK 50 DR



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, switching overlap
body materials	① 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		options
ports	MK threads G 2	special threads
	FK flanges PN 16	special flanges
function	NC	NO
pressure range	bar 0-16	$A \Rightarrow B$ max. 16 / $B \Rightarrow A$ max. 10 / $A \Rightarrow C$ max. 16 / $C \Rightarrow A$ max. 16
Kv value	m^3/h 28,2	
vacuum	leak rate $< 10^{-6} \text{ mbar} \cdot \text{l} \cdot \text{s}^{-1}$	
pressure-vacuum	$P_1 \Leftrightarrow P_2$	upon request
back pressure	$P_2 > P_1$	see pressure range
media		gaseous - liquid - highly viscous - gelatinous - contaminated
abrasive media		upon request
damping	opening	
	closing	
flow direction		see pressure range
switching cycles	1/min 40	
switching time	ms opening 400 closing 400	
media temperature	${}^{\circ}\text{C}$ DC: -20 to +80 AC: -20 to +80	-20 to +120
ambient temperature	${}^{\circ}\text{C}$ DC: -20 to +80 AC: -20 to +80	-20 to +120
limit switches		inductive
manual override		available
approvals		LR/GL/WAZ
mounting		mounting brackets
weight	kg MK 31,5 FK 38,5	upon request
additional equipment		

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 integrated rectifier	above 100 °C with separate rectifier
insulating rating	H 180°C	
protection	IP65	
energized duty rating	ED 100%	
connection	plug acc. DIN EN 175301-803 form A, 4 positions x90° / wire diameter 6-8 mm	terminal box M16x1,5
optional		
additional equipment		
current consumption	illuminated plug with varistor N-coil DC 24 V 2,80 A AC 230 V 40-60 Hz 0,33 A	
	H-coil DC 24 V 3,30 A AC 230 V 40-60 Hz 0,43 A	
explosion proof		
limit switches	inductive (I) inductive (B)	normally open-PNP normally open-PNP

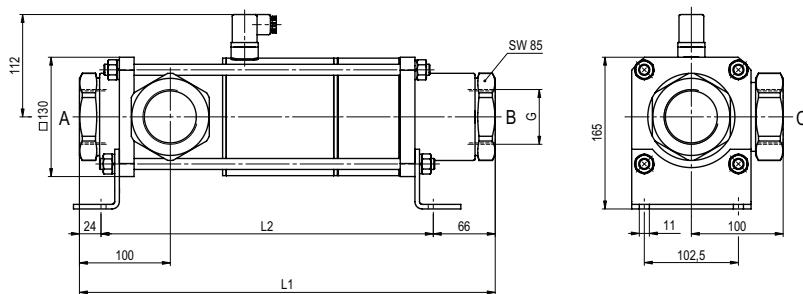
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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.

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

type MK 50 DR

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



constructive length	L ₁	L ₂	L ₃
standard	453	363	553
with 1/2 inductive limit switches	453	363	553
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	453	363	553

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

type FK 50 DR

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

