

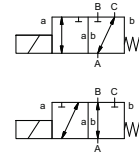
# coaxial valve

## 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 ② steel, galvanized  
 ③ ⑤ without non-ferr. metals  
 ④ steel, nickel plated 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**

<b>ports</b>	MK threads G 2	special threads
	FK flanges PN 16	special flanges
<b>function</b>	NC	NO
<b>pressure range</b>	bar 0-16	
	A ⇒ B max. 16 / B ⇒ A max. 10 / A ⇒ C max. 16 / C ⇒ A max. 16	
<b>Kv value</b>	m³/h 28,2	
<b>vacuum</b>	leak rate	< 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>
<b>pressure-vacuum</b>	P <sub>1</sub> ⇔ P <sub>2</sub>	upon request
<b>back pressure</b>	P <sub>2</sub> > P <sub>1</sub>	see pressure range
<b>media</b>		gaseous - liquid - highly viscous - gelatinous - contaminated
<b>abrasive media</b>		upon request
<b>damping</b>	opening	
	closing	
<b>flow direction</b>		see pressure range
<b>switching cycles</b>	1/min 40	
<b>switching time</b>	ms opening 400 closing 400	
<b>media temperature</b>	°C DC: -20 to +80	-20 to +120
	AC: -20 to +80	-20 to +120
<b>ambient temperature</b>	°C DC: -20 to +80	
	AC: -20 to +80	
<b>limit switches</b>		inductive
<b>manual override</b>		available
<b>approvals</b>		LR/GL/WAZ
<b>mounting</b>		mounting brackets
<b>weight</b>	kg MK 31,5 FK 38,5	
<b>additional equipment</b>		upon request

**electrical specifications**

**options**

<b>nominal voltage</b>	U <sub>n</sub> DC 24 V	special voltage upon request
	U <sub>n</sub> AC 230 V 40-60 Hz	special voltage upon request
<b>actuation</b>	DC direct-current magnet	
	AC direct-current magnet with integrated rectifier	above 100 °C with separate rectifier
<b>insulating rating</b>	H 180°C	
<b>protection</b>	IP65	
<b>energized duty rating</b>	ED 100%	
<b>connection</b>	plug acc. DIN EN 175301-803 form A, 4 positions x90° / wire diameter 6-8 mm	terminal box M16x1,5
<b>optional additional equipment</b>		illuminated plug with varistor
<b>current consumption</b>	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
<b>explosion proof</b>		
<b>limit switches</b>	inductive (I)	normally open-PNP
	inductive (B)	normally open-PNP

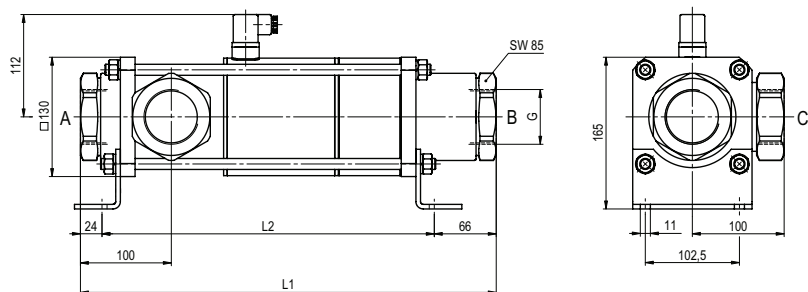
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

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 <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
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)

