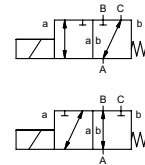



# coaxial valve

## 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

<b>ports</b>	MK	threads G 2	<b>options</b>
	FK	flanges PN 16	special threads
<b>function</b>		NC	special flanges
<b>pressure range</b>	bar	0-16	NO
		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

<b>nominal voltage</b>	U <sub>n</sub>	DC 24 V	<b>options</b>
	U <sub>n</sub>	AC 230 V 40-60 Hz	special voltage upon request
<b>actuation</b>	DC	direct-current magnet	special voltage upon request
	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</b>		illuminated plug with varistor	
<b>additional equipment</b>	N-coil	DC 24 V 2,80 A	
<b>current consumption</b>		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

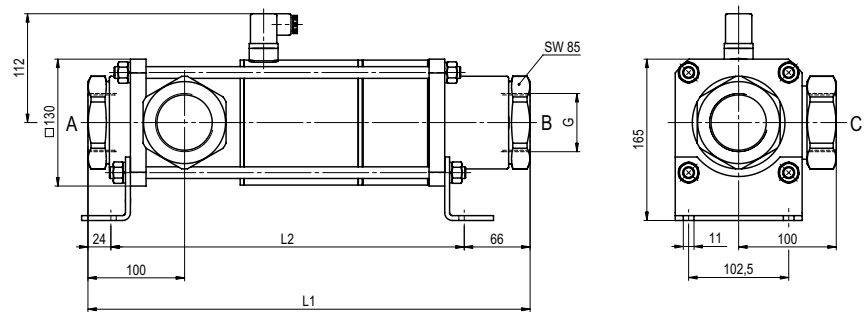
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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)

