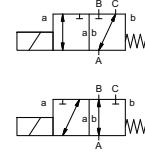


## coaxial valve

### type FK 80 DR



<b>3/2 way valve</b>	<b>direct acting</b>
<b>pressure range</b>	PN 0-16 bar
<b>orifice</b>	DN 80 mm
<b>connection</b>	flange
<b>function</b>	valve normally closed (A ▶ B) symbol NC
	valve normally open (A ▶ B) symbol NO



<b>design</b>	pressure balanced, with spring return, switching overlap
<b>body materials</b>	① aluminium ② steel, galvanized ③ ④ steel, nickel plated ⑤ ⑥ stainless steel
<b>valve seat</b>	synthetic resin on metal
<b>seal materials</b>	NBR
	PTFE, FPM, EPDM

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

#### 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>	FK	flanges PN 16	<b>options</b>
<b>function</b>	NC	NO	special flanges
<b>pressure range</b>	bar 0-16	A ⇌ B max. 16 / B ⇌ A max. 5 / A ⇌ C max. 16 / C ⇌ A max. 16	
<b>Kv value</b>	m³/h 55,0	leak rate < 10 <sup>-4</sup> mbar·l·s <sup>-1</sup>	
<b>vacuum</b>	P <sub>1</sub> ⇌ P <sub>2</sub>	upon request	
<b>pressure-vacuum</b>	P <sub>2</sub> > P <sub>1</sub>	see pressure range	
<b>back pressure</b>	media	gaseous - liquid - highly viscous - gelatinous - contaminated	
<b>abrasive media</b>	damping	upon request	
<b>opening</b>			
<b>closing</b>			
<b>flow direction</b>	see pressure range		
<b>switching cycles</b>	1/min 20		
<b>switching time</b>	ms opening 600 closing 800		
<b>media temperature</b>	°C DC: -20 to +80		
	AC: -20 to +80		
<b>ambient temperature</b>	°C DC: -20 to +80		
	AC: -20 to +80		
<b>limit switches</b>		inductive	
<b>manual override</b>		LR/GL/WAZ	
<b>approvals</b>			
<b>mounting</b>			
<b>weight</b>	kg FK 48,8	upon request	
<b>additional equipment</b>			

#### electrical specifications

<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	
<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	terminal box M16x1,5
	form A, 4 positions x90° / wire diameter 6-8 mm	
<b>optional</b>		
<b>additional equipment</b>	illuminated plug with varistor	
<b>current consumption</b>	N-coil DC 24 V 4,40 A	
	AC 230 V 40-60 Hz 0,65 A	
	H-coil	AC 230 V 40-60 Hz 0,79 A
<b>explosion proof</b>		
<b>limit switches</b>	inductive (I) inductive (B)	normally open-PNP normally open-PNP

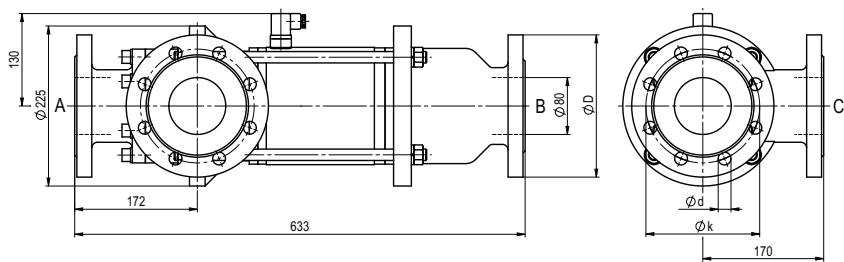
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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 FK 80 DR

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



## type FK 80 DR

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

