

coaxial valve

type FK 80



2/2 way valve direct acting

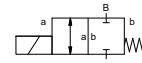
pressure range PN 0-16 bar

orifice DN 80 mm

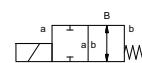
connection flange

function valve

normally closed
symbol **NC**



valve
normally open
symbol **NO**



design pressure balanced, with spring return

body materials

① aluminium

③

④ steel, nickel plated

synthetic resin on metal

valve seat NBR

② steel, galvanized

⑤ without non-ferr. metals

⑥ stainless steel

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
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

general specifications

ports	FK	flanges PN 16	options
function	NC	NO	special flanges
pressure range	bar	0-16	> 16 bar upon request
Kv value	m ³ /h	70,0	
vacuum	leak rate	< 10 ⁻⁴ mbar·l·s ⁻¹	
pressure-vacuum	P ₁ ↔ P ₂	upon request	
back pressure	P ₂ > P ₁	available (max. 5 bar)	
media	gaseous - liquid - highly viscous - gelatinous - contaminated		
abrasive media damping			upon request
opening			
closing			upon request
flow direction	A ⇄ B	as marked	bi-directional (max. 5 bar)
switching cycles	1/min	20	
switching time	ms	opening 600 closing 800	
media temperature	°C	DC: -20 to +80 AC: -20 to +80	
ambient temperature	°C	DC: -20 to +80 AC: -20 to +80	
limit switches			inductive
manual override			LR/GL/WAZ
approvals			
mounting			
weight	kg	FK 38,0	upon request
additional equipment			

electrical specifications

nominal voltage	U _n	DC 24 V	options
	U _n	AC 230 V 40-60 Hz	special voltage upon request
actuation	DC	direct-current magnet	special voltage upon request
	AC	direct-current magnet with integrated 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	N-coil	illuminated plug with varistor 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
explosion proof			
limit switches		inductive (I) inductive (B)	normally open-PNP normally open-PNP

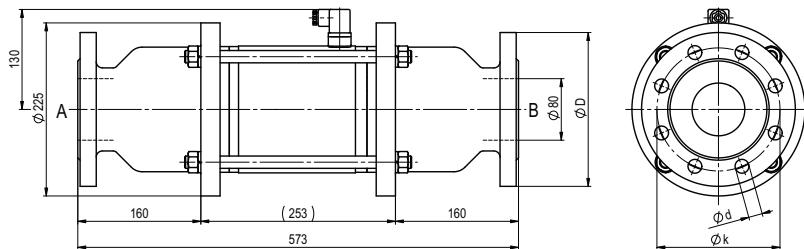
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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 FK 80

function: **NC**
closed when not energized



flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	200	160	18

type FK 80

function: **NO**
open when not energized

