

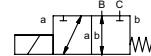
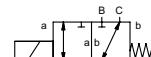
coaxial valve

type MK 20 DR Ex

FK 20 DR Ex



3/2 way valve	direct acting
pressure range	PN 0-40 bar
orifice	DN 20 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, intersecting switch-over
body materials	① brass ③ brass, nickel plated ④ steel, nickel plated ② steel galvanized 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 3/4 - G 1 1/4	special threads
	FK	flanges PN 16 / 40	special flanges
function	NC	NO	
pressure range	bar	0-16 / 0-40 A ⇌ B max. 40 / B ⇌ A max. 16 / A ⇌ C max. 40 / C ⇌ A max. 16	
Kv value	m ³ /h	6,7	
vacuum	leak rate	< 10 ⁻⁶ mbar·l·s ⁻¹	
pressure-vacuum	P ₁ ⇌ 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			
flow direction		see pressure range	
switching cycles	1/min	150	
switching time	ms	opening 110 closing 110	
media temperature	°C	DC: -20 to +40 AC: -20 to +40	
ambient temperature	°C	DC: -20 to +40 AC: -20 to +40	
limit switches			inductive
manual override			LR/GL/WAZ
approvals			mounting brackets
mounting			
weight	kg	MK 6,0 FK 8,4	
additional equipment			upon request

⚠ 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.

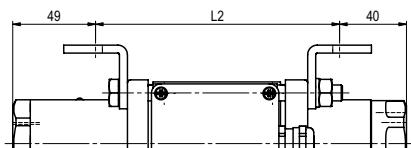
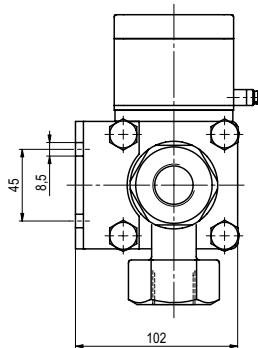
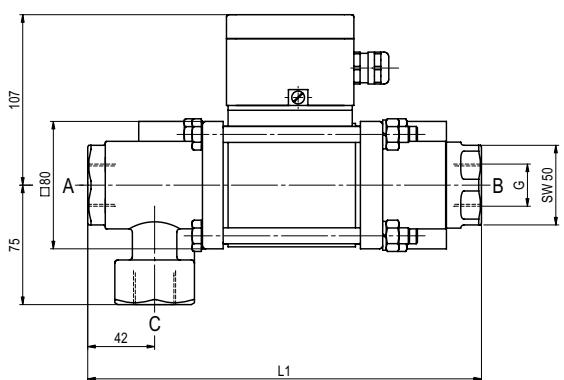
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

		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 separate rectifier outside of the explosion-proof area	sand sealed rectifier
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection	M16x1,5	terminal box	
optional			
additional equipment			
current consumption	U _n	V-DC 24 200	48 98 110 220
	I _n	A 1,34 0,17	0,68 0,32 0,28 0,14
explosion proof		II 2 G Ex mb e II T4 II 2 D Ex tD A21 IP65 T130 °C PTB 03 ATEX 2049 X	
limit switches		inductive NAMUR	circuit amplifier

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

type MK 20 DR Ex

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



constructive length	L ₁	L ₂	L ₃
standard	247	158	301
with inductive limit switches	291	202	345

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	105	75	14
40	EN 1092-2	105	75	14

type FK 20 DR Ex

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

