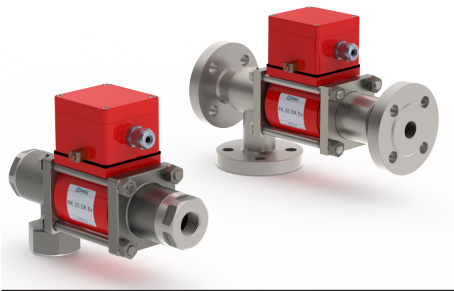
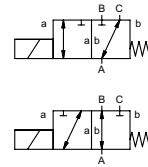



coaxial valve

type MK 20 DR Ex FK 20 DR Ex



3/2 way valve
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 ② steel galvanized
 ③ brass, nickel plated 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

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	m³/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	opening closing		
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			
approvals			LR/GL/WAZ
mounting			mounting brackets
weight	kg	MK 6,0 FK 8,4	
additional equipment			upon request

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

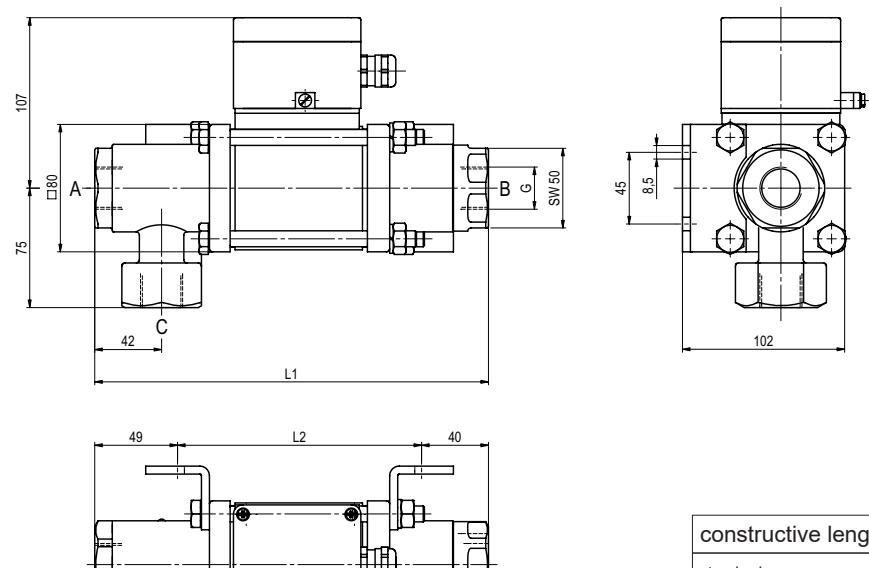
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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 20 DR Ex**

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



constructive length	L1	L2	L3
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)

