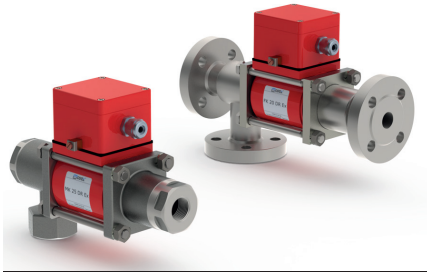


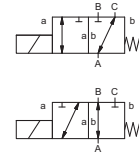
coaxial valve

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	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 FK flanges PN 16 / 40	special threads 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 AC 230 V 40-60 Hz	special voltage upon request 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 I _n A 1,34 0,17	48 98 110 220 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

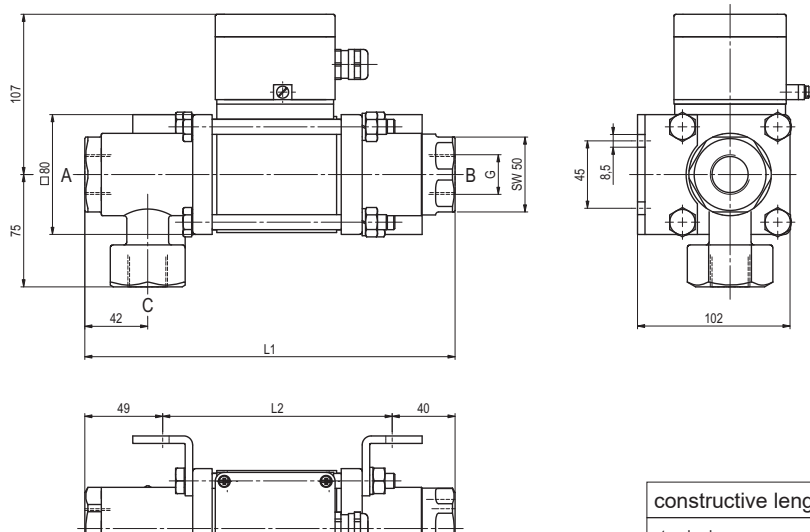
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

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)

