

type MK 25 DR
FK 25 DR

08/2022



⚠ 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

⚠ 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. To avoid hydraulic shocks in pipelines, the flow velocities must be taken into account when designing valves for liquids.

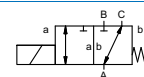
3/2 way valve

pressure range
orifice
connection
function

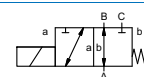
direct acting

PN 0-40 bar
DN 25 mm
thread/flange

valve normally closed (A ► B)
symbol **NC**



valve normally open (A ► B)
symbol **NO**



operating principle

body material

pressure balanced, with spring return, intersecting switch-over

- | | |
|------------------------|----------------------------|
| ① brass | ② steel galvanized |
| ③ brass, nickel plated | ⑤ without non-ferr. Metals |
| ④ steel, nickel plated | ⑥ stainless steel |

valve seat

seal materials

synthetic materials on metal

NBR PTFE, FPM, CR, EPDM

ports

function
pressure range

general specifications

options

MK	threads G 1 - G 1 1/2	special threads
FK	flanges PN 16 / 40	special flanges
	NC	NO
bar	0-16 / 0-40	
	A ⇒ B max. 40 / B ⇒ A max. 16 / A ⇒ C max. 40 / C ⇒ A max. 40	
m ³ /h	11.2	
leak rate		< 10 ⁻⁶ mbar•L•s ⁻¹
P ₁ ⇔ P ₂		upon request
P ₂ > P ₁	see pressure range	
	gaseous - liquid - highly viscous - gelatinous - contaminated	upon request
opening		
closing		
	see pressure range	
1/min	130	
ms	opening 130	
	closing 130	
°C	DC: -20 to +80	-40 to +160
	AC: -20 to +80	-40 to +160
°C	DC: -20 to +80	
	AC: -20 to +80	
		inductive / mechanical available
		LR/DNV/WAZ
		mounting brackets
kg	MK 9.2 FK 12.0	
		upon request

abrasive media

damping

flow direction
switching cycles
switching time

media temperature

ambient temperature

limit switches
manual override
approvals

mounting
weight
additional equipment

nominal voltage

actuation

electrical specifications

options

U _n	DC 24 V +5%/-10%	special voltage upon request
U _n	AC 230 V +5%/-10% 40-60 Hz	special voltage upon request
DC	direct-current magnet	
AC	direct-current magnet with integrated rectifier	above 100 °C with separate rectifier

insulating rating
protection
energized duty rating
connection

optional
additional equipment
current consumption

explosion proof

limit switches

H	180°C	
IP65		
ED	100%	
	plug acc. DIN EN 175301-803 form A, 4 positions x90° / wire diameter 6-8 mm	terminal box M16x1,5
M12x1	connector acc. DESINA	connector acc. VDMA
	illuminated plug with varistor	
N-coil	DC 24 V 2.70 A	
	AC 230 V 40-60 Hz 0.36 A	
H-coil		DC 24 V 2.70 A
		AC 230 V 40-60 Hz 0.36 A
		terminal box M16x1,5
		Ⓢ II 3G Ex ec IIC T3 Ta -20...+80°C Gc
		Ⓢ II 3D Ex tc IIIC T195°C Ta -20...+80°C Dc
		Ⓢ II 3G Ex h IIC T3 Gc
		Ⓢ II 3D Ex h IIIC T195°C Dc
	inductive (I)	normally open-PNP
	inductive (B)	normally open-PNP
	mechanical	single pole double throw-SPDT

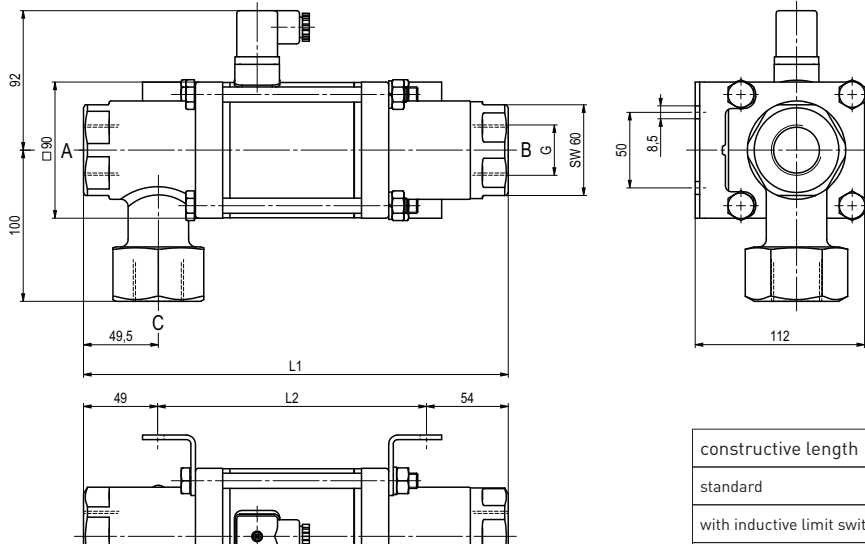
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

coax® data sheet - coaxial valve

type MK 25 DR

FK 25 DR

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



constructive length	L1	L2	L3
standard	281	178	337
with inductive limit switches	322	219	378
with manual override / inductive limit switches	334	231	390
with mechanical limit switches	322	219	378

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	115	85	14
40	EN 1092-2	115	85	14

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

