

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.

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

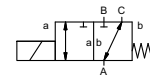
3/2 way valve

pressure range
orifice
connection
function

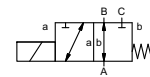
direct acting

PN 0-16 bar
DN 50 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	② steel galvanized
③	⑤ without non-ferr. Metals
④ steel, nickel plated	⑥ stainless steel

valve seat

synthetic materials on metal

seal materials

NBR PTFE, FPM, CR, EPDM

ports

general specifications

options

function
pressure range

MK	threads G 2	special threads
FK	flanges PN 16	special flanges
	NC	NO
bar	0-16	
	A ⇒ B max. 16 / B ⇒ A max. 10 / A ⇒ C max. 16 / C ⇒ A max. 16	

Kv value

m³/h 28.2

vacuum

leak rate < 10⁻⁶ mbar•L•s⁻¹

pressure-vacuum

P₁ ⇔ P₂ upon request

back pressure

P₂ > P₁ see pressure range

media

gaseous - liquid - highly viscous - gelatinous - contaminated upon request

abrasive media

damping

flow direction

opening see pressure range

switching cycles

closing

switching time

1/min 40

media temperature

ms opening 400

ambient temperature

ms closing 400

limit switches

°C DC: -20 to +80 -20 to +120

manual override

°C AC: -20 to +80 -20 to +120

approvals

°C DC: -20 to +80

mounting

°C AC: -20 to +80

weight

kg MK 31.5 FK 38.5

additional equipment

inductive available LR/DNV/WAZ mounting brackets upon request

nominal voltage

electrical specifications

options

actuation

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

H 180°C

protection

IP65

energized duty rating

ED 100%

connection

plug acc. DIN EN 175301-803 form A, 4 terminal box M16x1,5 positions x90° / wire diameter 6-8 mm

optional

illuminated plug with varistor

additional equipment

N-coil DC 24 V 2.55 A

current consumption

AC 230 V 40-60 Hz 0.29 A

explosion proof

H-coil	DC 24 V 3.29 A
	AC 230 V 40-60 Hz 0.43 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

limit switches

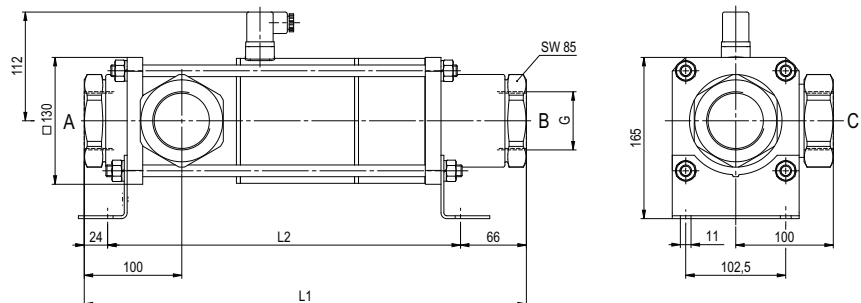
inductive (I) normally open-PNP
inductive (B) normally open-PNP

coax® data sheet - coaxial valve

type MK 50 DR

FK 50 DR

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



constructive length	L1	L2	L3
standard	453	363	553
with inductive limit switches	453	363	553
with manual override / inductive limit switches	453	363	553

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	165	125	18

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

