

03/2022



⚠ 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

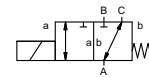
DN 50 mm

thread/flange

valve

normally closed (A ► B)

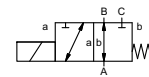
symbol **NC**



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

MK threads G 2

special threads

FK flanges PN 16

special flanges

bar 0-16

NO

A ⇒ B max. 16 / B ⇒ A max. 10 / A ⇒ C max. 16 / C ⇒ A max. 16

m³/h 28,2

leak rate

< 10⁻⁶ mbar•L•s⁻¹

P₁ ⇔ P₂

upon request

P₂ > P₁ see pressure range

gaseous - liquid - highly viscous -
gelatinous - contaminated

upon request

opening

closing

see pressure range

1/min 40

ms

opening 400

closing 400

°C

DC: -20 to +80

-20 to +120

AC: -20 to +80

-20 to +120

°C

DC: -20 to +80

AC: -20 to +80

abrasive media

damping

flow direction

switching cycles

switching time

media temperature

ambient temperature

limit switches

manual override

approvals

mounting

weight

additional equipment

inductive

available

LR/DNV/WAZ

mounting brackets

kg

MK 31,5 FK 38,5

upon request

nominal voltage

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

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

optional

additional equipment

current consumption

N-coil

DC 24 V 2,55 A

AC 230 V 40-60 Hz 0,29 A

H-coil

DC 24 V 3,29 A

AC 230 V 40-60 Hz 0,43 A

terminal box M16x1,5

② II 3G Ex nA IIC T3 Ta -20...+80°C Gc

③ II 3D Ex tc IIIC T195°C Ta -20...+80°C Dc

④ II 3G Ex h IIC T3 Gc

⑤ II 3D Ex h IIIC T195°C Dc

explosion proof

limit switches

inductive (I)

normally open-PNP

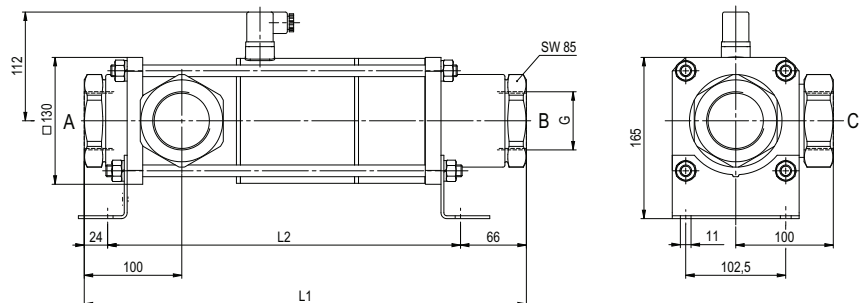
inductive (B)

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)

