

01/2024



⚠ 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
- 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.

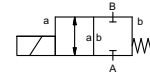
specifications not highlighted are standard
 specifications highlighted in grey are optional

2/2-way valve

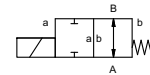
pressure range
orifice
connection
function

direct acting

PN 0-16 bar
DN 50 mm
thread/flange
valve normally closed
symbol **NC**



valve normally open
symbol **NO**



operating principle
body material

pressure balanced, with spring return

- | | |
|------------------------|----------------------------|
| ① brass | ② steel galvanized |
| ③ brass, nickel plated | 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
FK flanges PN 16
NC
0-16 bar

special threads
special flanges
NO

Kv value

m³/h 38,0

vacuum

leak rate < 10⁻⁶ mbar•L•s⁻¹

pressure-vacuum

P₁ ↔ P₂ upon request

back pressure

P₂ > P₁ available (max. 10 bar)

media

gaseous - liquid - highly viscous - gelatinous - contaminated

abrasive media
damping

upon request

flow direction

opening closing available
A ↔ B as marked bi-directional (max. 10 bar)

switching cycles

1/min 40

switching time

ms opening 400
closing 400

media temperature

°C DC: -20 to +80 -20 to +120
AC: -20 to +80 -20 to +120

ambient temperature

°C DC: -20 to +80
AC: -20 to +80

limit switches

inductive / mechanical

manual override

available

approvals

LR/DNV/WAZ

mounting

mounting brackets

weight

kg MK 25,5 FK 31,0

additional equipment

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
current consumption

N-coil DC 24 V 2,55 A
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

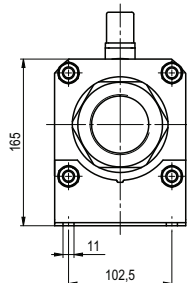
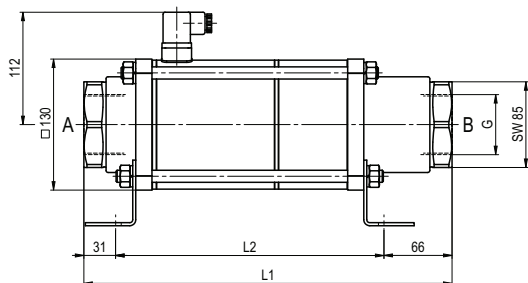
inductive (I) normally open-PNP
inductive (B) normally open-PNP

coax® data sheet - coaxial valve

type MK 50

FK 50

function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	365	268	438
with inductive limit switches	365	268	438
with manual override / inductive limit switches	365	268	438

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

function: **NO**
open when not energized

