

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.

3/2 way valve

pressure range

orifice

connection

function

direct acting

PN 0-16 bar

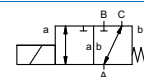
DN 40 mm

thread/flange

valve

normally closed (A ► B)

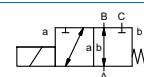
symbol **NC**



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

MK threads G 1 1/2 - G 2

special threads

pressure range

FK flanges PN 16

special flanges

0-16

NO

Kv value

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

vacuum

m³/h 18,4 [A ⇒ B] 11,5 [A ⇒ C]

pressure-vacuum

leak rate < 10⁻⁶ mbar•L•s⁻¹

back pressure

P₁ ⇔ P₂ upon request

media

P₂ > P₁ see pressure range
gaseous - liquid - highly viscous -
gelatinous - contaminated

abrasive media

upon request

damping

opening

closing

see pressure range

flow direction

1/min 90

switching cycles

switching time

ms opening 520

closing 150

media temperature

°C DC: -20 to +100 -40 to +160

AC: -20 to +100 -40 to +160

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 18,5 FK 23,0

additional equipment

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

actuation

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 2,07 A

AC 230 V 40-60 Hz 0,28 A

current consumption

H-coil DC 24 V 3,24 A

AC 230 V 40-60 Hz 0,44 A

terminal box M16x1,5

Ⓜ II 3G Ex nA 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

explosion proof

inductive (I) normally open-PNP

inductive (B) normally open-PNP

mechanical single pole double throw-SPDT

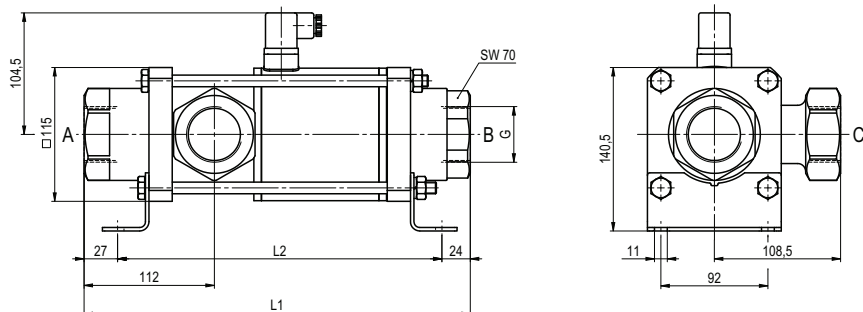
limit switches

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

coax® data sheet - coaxial valve

type MK 40 DR
FK 40 DR

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



constructive length	L1	L2	L3
standard	332	281	394
with inductive limit switches	373	322	435
with manual override / inductive limit switches	373	322	435
with mechanical limit switches	373	322	435

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	150	110	18

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

