

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
- 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.

2/2-way valve

pressure range

orifice

connection

function

direct acting

PN 0-63 bar (NO: 0-40 bar)

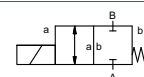
DN 40 mm

thread/flange

valve

normally closed

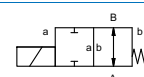
symbol **NC**



valve

normally open

symbol **NO**



pressure balanced, with spring return

operating principle

body material

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

valve seat

synthetic materials on metal

seal materials

NBR PTFE, FPM, CR, EPDM

ports

MK threads G 1 1/2 - G 2
FK flanges PN 16 / 40 / 100
NC
0-16 / 0-40 / 0-63

options

special threads
special flanges
NO
0-16 / 0-40

function

m³/h 21,8

pressure range

leak rate < 10⁻⁶ mbar•L•s⁻¹

Kv value

vacuum

pressure-vacuum

back pressure

media

P₁ ↔ P₂ upon request
P₂ > P₁ available (max. 16 bar)
gaseous - liquid - highly viscous -
gelatinous - contaminated

abrasive media

upon request

damping

opening available

flow direction

A ↔ B as marked bi-directional (max. 16 bar)

switching cycles

1/min 90

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 14,0 FK 18,0

additional equipment

upon request

nominal voltage

U_n DC 24 V +5%/-10% special voltage upon request
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

additional equipment

illuminated plug with varistor

current consumption

N-coil DC 24 V 2,07 A
AC 230 V 40-60 Hz 0,28 A

explosion proof

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

limit switches

inductive (I) normally open-PNP
inductive (B) normally open-PNP
mechanical single pole double throw-SPDT

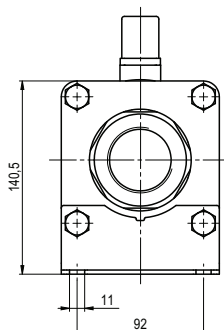
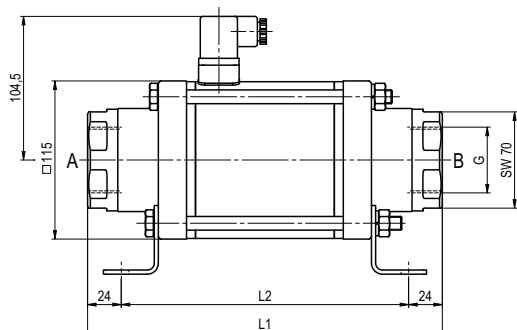
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

coax® data sheet - coaxial valve

type MK 40

FK 40

function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	258	210	324
with inductive limit switches	299	251	365
with manual override / inductive limit switches	299	251	365
with mechanical limit switches	299	251	365

flanges PN	DIN	$\varnothing D$	$\varnothing k$	$\varnothing d$
16	EN 1092-1	150	110	18
40	EN 1092-1	150	110	18
100	EN 1092-1	170	125	22

function: **NO**
open when not energized

