

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.

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

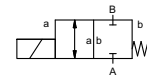
2/2-way valve

pressure range
orifice
connection
function

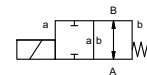
direct acting

PN 0-100 bar
DN 32 mm
thread/flange

valve normally closed
symbol **NC**



valve normally open
symbol **NO**



operating principle

pressure balanced, with spring return

body material

- | | |
|------------------------|----------------------------|
| 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 1 1/4 - G 1 1/2
FK flanges PN 16 / 40 / 100
NC
0-16 / 0-40 / 0-63 / 0-100

special threads
special flanges
NO

Kv value

m³/h 17,4

vacuum

leak rate < 10⁻⁶ mbar•L•s⁻¹

pressure-vacuum

P₁ ↔ P₂ upon request

back pressure

P₂ > P₁ available (max. 16 bar)

media

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 120

switching time

ms opening 440
closing 250

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 13,5 FK 17,5

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 2,07 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

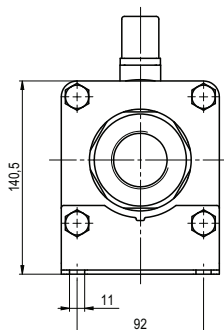
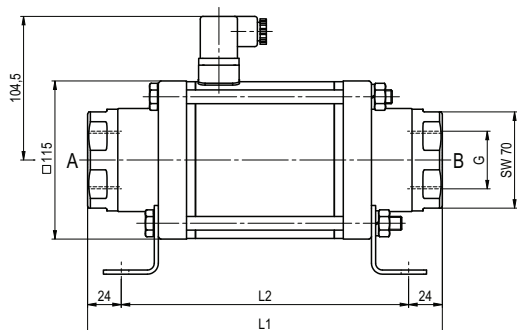
inductive (I) normally open-PNP
inductive (B) normally open-PNP
mechanical single pole double throw-SPDT

coax® data sheet - coaxial valve

type MK 32

FK 32

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	140	100	18
40	EN 1092-1	140	100	18
100	EN 1092-1	155	110	22

function: **NO**
open when not energized

