

type MK 32 DR
FK 32 DR

08/2022



⚠ 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.

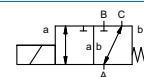
3/2 way valve

pressure range
orifice
connection
function

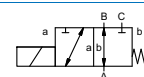
direct acting

PN 0-40 bar
DN 32 mm
thread/flange

valve normally closed (A ► B)
symbol **NC**



valve normally open (A ► B)
symbol **NO**



operating principle

pressure balanced, with spring return, intersecting switch-over

body material

- ①
- ② steel galvanized
- ③
- 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 1/4 - G 1 1/2
FK flanges PN 16 / 40
NC
bar 0-16 / 0-40
A ⇒ B max. 40 / B ⇒ A max. 16 / A ⇒ C max. 40 / C ⇒ A max. 16

function

special threads
special flanges
NO

pressure range

m³/h 14.1 [A ⇒ B] 8.9 [A ⇒ C]

Kv value

leak rate < 10⁻⁶ mbar•L•s⁻¹

vacuum

P₁ ⇔ P₂ upon request

pressure-vacuum

P₂ > P₁ see pressure range

back pressure

gaseous - liquid - highly viscous -
gelatinous - contaminated

media

upon request

abrasive media

opening

damping

closing

flow direction

see pressure range

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 18.0 FK 22.0

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

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

explosion proof

terminal box M16x1,5

limit switches

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

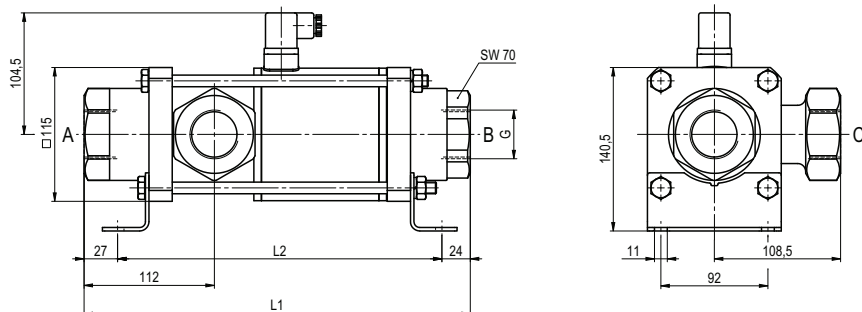
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

coax® data sheet - coaxial valve

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FK 32 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	$\varnothing D$	$\varnothing k$	$\varnothing d$
16	EN 1092-1	140	100	18
40	EN 1092-2	140	100	18

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

