

type MK 20 DR
FK 20 DR

08/2021



⚠ 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.

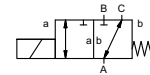
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

3/2 way valve

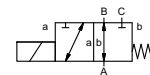
pressure range
orifice
connection
function

direct acting

PN 0-40 bar
DN 20 mm
thread/flange
valve normally closed (A ► B)
symbol **NC**



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



design

body materials

pressure balanced, with spring return, intersecting switch-over

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

valve seat

synthetic resin on metal

seal materials

NBR PTFE, FPM, CR, EPDM

ports

general specifications

options

function
pressure range

MK threads G 3/4 - G 1 1/4
FK flanges PN 16 / 40
NC
0-16 / 0-40
A ⇒ B max. 40 / B ⇒ A max. 16 / A ⇒ C max. 40 / C ⇒ A max. 40

special threads
special flanges
NO

Kv value

m³/h 6,7

vacuum

leak rate

< 10⁻⁶ mbar•L•s⁻¹

pressure-vacuum

P₁ ⇔ P₂

upon request

back pressure

P₂ > P₁ see pressure range

gaseous - liquid - highly viscous -
gelatinous - contaminated

upon request

media
abrasive media
damping

opening
closing

see pressure range

flow direction
switching cycles
switching time

1/min 150

ms

opening 110
closing 110

media temperature

°C

DC: -20 to +80
AC: -20 to +80
-40 to +160
-40 to +160

ambient temperature

°C

DC: -20 to +80
AC: -20 to +80

limit switches
manual override
approvals

inductive / mechanical
available
LR/GL/WAZ

mounting

mounting brackets

weight
additional equipment

kg MK 6,0 FK 8,4

upon request

nominal voltage

electrical specifications

options

U_n DC 24 V +5%/-10%
U_n AC 230 V +5%/-10% 40-60 Hz

special voltage upon request
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 positions x90° / wire diameter 6-8 mm

terminal box M16x1,5

optional

M12x1

connector acc. DESINA
illuminated plug with varistor

connector acc. VDMA

additional equipment
current consumption

N-coil

DC 24 V 1,56 A
AC 230 V 40-60 Hz 0,16 A

H-coil

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

explosion proof

limit switches

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

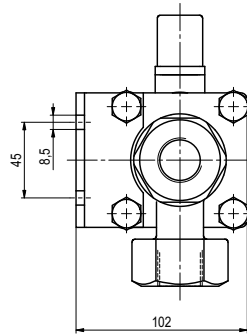
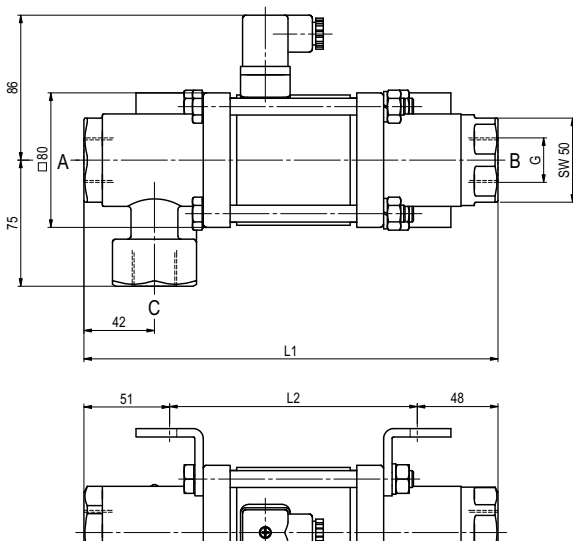
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

coax® data sheet - coaxial valve

type MK 20 DR

FK 20 DR

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



constructive length	L1	L2	L3
standard	247	148	301
with inductive limit switches	291	192	345
with manual override / inductive limit switches	291	192	345
with mechanical limit switches	291	192	345

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	105	75	14
40	EN 1092-2	105	75	14

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

