

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.

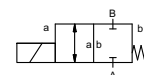
2/2-way valve

pressure range
orifice
connection
function

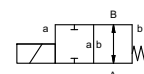
direct acting

PN 0-100 bar
DN 20 mm
thread/flange

valve normally closed
symbol **NC**



valve normally open
symbol **NO**



operating principle

body material

pressure balanced, with spring return

- | | |
|------------------------|----------------------------|
| ① brass | ② steel galvanized |
| ③ brass, nickel plated | ⑤ without non-ferr. Metals |
| ④ steel, nickel plated | ⑥ stainless steel |
| ⑦ aluminium | |

valve seat

synthetic materials 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	special threads
FK	flanges PN 16 / 40 / 100	special flanges
	NC	NO
bar	0-16 / 0-40 / 0-63 / 0-100	> 100 bar upon request

Kv value

m³/h 8,4

vacuum
pressure-vacuum
back pressure
media

leak rate < 10⁻⁶ mbar•L•s⁻¹
P₁ ↔ P₂ upon request
P₂ > P₁ available (max. 16 bar)
gaseous - liquid - highly viscous -
gelatinous - contaminated

abrasive media
damping

opening upon request

flow direction
switching cycles
switching time

closing available
A ↔ B as marked bi-directional (max. 16 bar)
1/min 150
ms opening 110
closing 110

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
manual override
approvals

inductive / mechanical
available
LR/DNV/WAZ
mounting brackets

mounting
weight
additional equipment

kg MK 5,5 FK 7,5
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
protection
energized duty rating
connection

H 180°C
IP65
ED 100%
plug acc. DIN EN 175301-803 form A, 4 terminal box M16x1,5
positions x90° / wire diameter 6-8 mm

optional
additional equipment
current consumption

M12x1 connector acc. DESINA connector acc. VDMA
illuminated plug with varistor
N-coil DC 24 V 1,56 A
AC 230 V 40-60 Hz 0,16 A

explosion proof

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

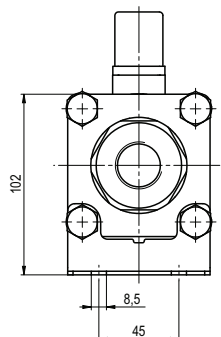
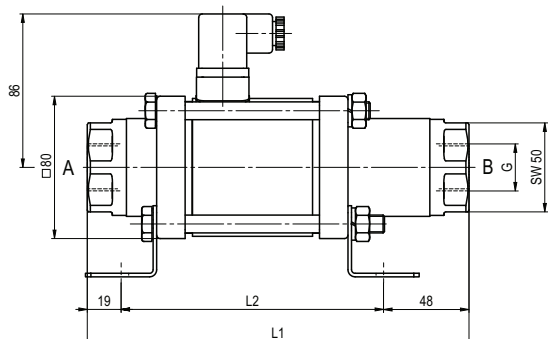
■ specifications not highlighted are standard
■ specifications highlighted in grey are optional

coax® data sheet - coaxial valve

type MK 20

FK 20

function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	216	148	269
with inductive limit switches	259	192	313
with manual override / inductive limit switches	259	192	313
with mechanical limit switches	259	192	313

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	105	75	14
40	EN 1092-1	105	75	14
100	EN 1092-1	130	90	18

function: **NO**
open when not energized

