

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.

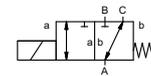
specifications not highlighted are standard
 specifications highlighted in grey are optional

3/2 way valve

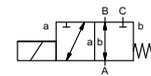
pressure range
orifice
connection
function

direct acting

PN 0-25 bar
 DN 10 mm
 thread
 valve normally closed (A ► B)
 symbol **NC**



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



operating principle

body material

pressure balanced, with spring return, intersecting switch-over

- ① brass
- ②
- ③ brass, nickel plated
- ⑤
- ④
- ⑥ stainless steel
- ⑦ aluminium

valve seat

synthetic materials on metal

seal materials

NBR FPM, CR, EPDM

ports

MK threads G 1/4 - G 3/4

options

special threads

function

NC

NO

pressure range

0-16 / 0-25
 A ⇒ B max. 25 / B ⇒ A max. 16 / A ⇒ C max. 25 / C ⇒ A max. 25

Kv value

m³/h 2.6

vacuum

leak rate

< 10⁻⁶ mbar•L•s⁻¹

pressure-vacuum

P₁ ⇔ P₂

upon request

back pressure

P₂ > P₁ see pressure range

media

gaseous - liquid - contaminated

abrasive media

damping

opening

closing

see pressure range

flow direction

1/min 200

switching cycles

switching time

ms opening 40
 closing 25

media temperature

°C DC: -10 to +80 -30 to +120
 AC: -10 to +80 -30 to +120

ambient temperature

°C DC: -10 to +80 -30 to +120
 AC: -10 to +80

limit switches

manual override

approvals

LR/DNV/WAZ

mounting

mounting brackets

weight

kg MK 2.2

additional equipment

upon request

nominal voltage

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

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

additional equipment

M12x1 connector acc. DESINA connector acc. VDMA

current consumption

illuminated plug with varistor
 N-coil DC 24 V 1.04 A
 AC 230 V 40-60 Hz 0.13 A

explosion proof

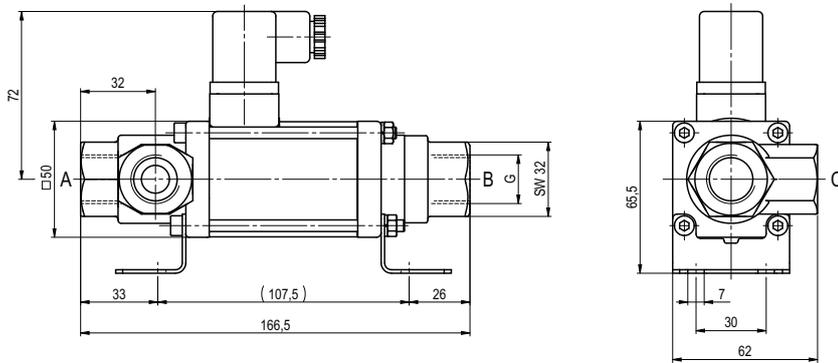
H-coil DC 24 V 1.28 A
 AC 230 V 40-60 Hz 0.16 A
 terminal box M16x1,5
Ⓜ II 3G Ex ec IIC T3 Ta -20...+80°C Gc
Ⓜ II 3D Ex tc IIIC T195°C Ta -20...+80°C Dc
Ⓜ II 3G Ex h IIC T3 Gc
Ⓜ II 3D Ex h IIIC T195°C Dc

limit switches

coax® data sheet - coaxial valve

type MK 10 DR

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



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

