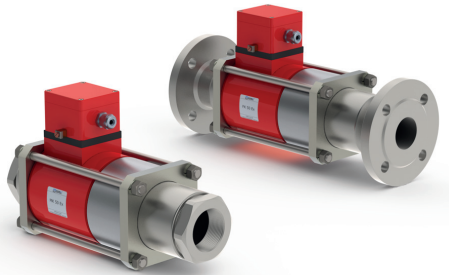


type MK 50 Ex
FK 50 Ex

12/2024



⚠ 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 0-16 bar

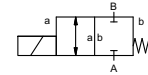
DN 50 mm

thread/flange

valve

normally closed

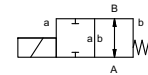
symbol **NC**



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

valve seat

synthetic materials on metal

seal materials

NBR

PTFE, FPM, CR, EPDM

ports

MK threads G 2

options

FK flanges PN 16

special threads

pressure range

bar 0-16

special flanges

NO

Kv value

m³/h 28,2

vacuum

leak rate

< 10⁻⁶ mbar•L•s⁻¹

pressure-vacuum

P₁ ↔ P₂

upon request

back pressure

P₂ > P₁

available (max. 10 bar)

media

gaseous - liquid - highly viscous -

gelatinous - contaminated

upon request

abrasive media

opening

damping

closing

available

flow direction

A ↔ B as marked

bi-directional (max. 10 bar)

switching cycles

1/min 40

switching time

ms opening 400
closing 400

media temperature

°C DC: -20 to +40

-40 to +40

AC: -20 to +40

-40 to +40

ambient temperature

°C DC: -20 to +40

-40 to +40

AC: -20 to +40

-40 to +40

limit switches

inductive

available

manual override

available

LR/DNV/WAZ

approvals

mounting brackets

mounting brackets

mounting

weight

kg MK 25,5 FK 31,0

upon request

additional equipment

electrical specifications

options

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 separate rectifier outside of the explosion-proof area

H 180°C

IP65

ED 100%

M16x1,5 terminal box

U_n V-DC 24 210

48 98 110 220

I_n A 2,55 0,29

1,38 0,66 0,56 0,28

Ⓢ II 2G Ex mb e II T4

Ⓢ II 2D Ex tD A21 IP65 T130 °C

Ⓢ II 2G Ex h IIC T4 Gb

Ⓢ II 2D Ex h IIIC T130°C Db

optional

additional equipment

current draw

inductive NAMUR

circuit amplifier

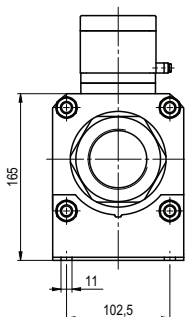
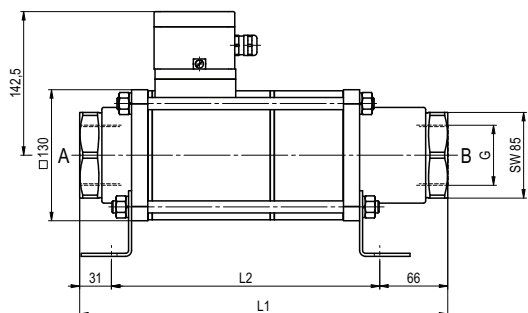
explosion proof

limit switches

coax® data sheet - coaxial valve

type MK 50 Ex
FK 50 Ex

function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	365	268	438
with inductive limit switches	365	268	438
with manual override / inductive limit switches	365	268	438

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	165	125	18

function: **NO**
open when not energized

