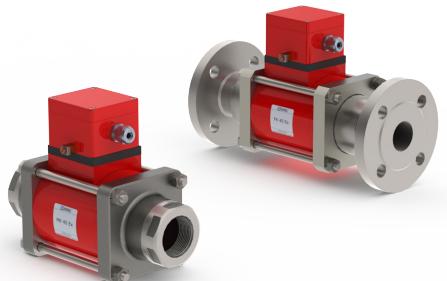
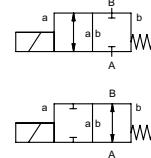


coaxial valve

type MK 40 Ex FK 40 Ex



| | |
|-----------------------|----------------------------------------------|
| 2/2 way valve | direct acting |
| pressure range | PN 0-64 bar (NO: 0-40 bar) |
| orifice | DN 40 mm |
| connection | thread/flange |
| function | valve normally closed symbol NC |
| | valve normally open symbol NO |



⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

| | |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| design | pressure balanced, with spring return |
| body materials | ① brass ③ brass, nickel plated ④ steel, nickel plated ② steel galvanized ⑤ without non-ferr. Metals ⑥ stainless steel |
| valve seat | synthetic resin on metal |
| seal materials | NBR |
| | PTFE, FPM, CR, EPDM |

details needed

- orifice
- port
- function NC/NO
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

| general specifications | | options |
|-------------------------------|---------------------------------------------------------------|------------------------------|
| ports | MK threads G 1 1/2 - G 2 | special threads |
| | FK flanges PN 16 / 40 / 100 | special flanges |
| function | NC NO | |
| pressure range | bar 0-16 / 0-40 / 0-64 | 0-16 / 0-40 |
| Kv value | m ³ /h 18,4 | |
| vacuum | leak rate < 10 ⁻⁶ mbar·l·s ⁻¹ | |
| pressure-vacuum | P ₁ ⇌ P ₂ upon request | |
| back pressure | P ₂ > P ₁ available (max. 16 bar) | |
| media | gaseous - liquid - highly viscous - gelatinous - contaminated | |
| abrasive media | upon request | |
| damping | | |
| flow direction | opening | |
| switching cycles | closing as marked | available |
| switching time | 1/min 90 | bi-directional (max. 16 bar) |
| media temperature | ms opening 520 | |
| | closing 150 | |
| ambient temperature | °C DC: -20 to +40 | |
| | AC: -20 to +40 | |
| limit switches | DC: -20 to +40 | inductive |
| manual override | AC: -20 to +40 | available |
| approvals | | LR/GL/WAZ |
| mounting | | mounting brackets |
| weight | kg MK 14,0 FK 18,0 | upon request |
| additional equipment | | |

⚠ 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.

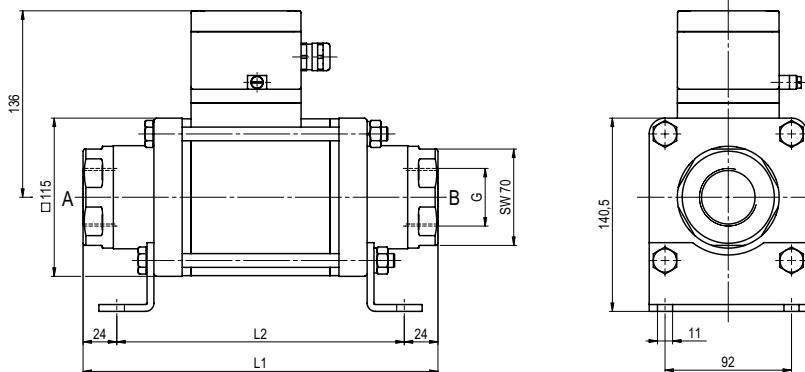
⚠ If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

| electrical specifications | | options |
|----------------------------------|--------------------------------------------------------------------------------------|------------------------------------|
| nominal voltage | U _n DC 24 V | special voltage upon request |
| | U _n AC 230 V 40-60 Hz | special voltage upon request |
| actuation | DC direct-current magnet | |
| | AC direct-current magnet with separate rectifier outside of the explosion-proof area | sand sealed rectifier |
| insulating rating | H 180°C | |
| protection | IP65 | |
| energized duty rating | ED 100% | |
| connection | M16x1,5 terminal box | |
| optional additional equipment | | |
| current consumption | U _n V-DC 24 200 | 20 48 98 110 210 220 230 |
| | I _n A 2,05 0,29 | 2,72 1,07 0,54 0,48 0,25 0,25 0,21 |
| explosion proof | II 2 G Ex mb e II T4 II 2 D Ex tD A21 IP65 T130 °C PTB 03 ATEX 2051 X | |
| limit switches | inductive NAMUR | circuit amplifier |

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

type MK 40 Ex

function: **NC**
closed when not energized



| constructive length | L ₁ | L ₂ | L ₃ |
|-------------------------------------------------|----------------|----------------|----------------|
| standard | 258 | 210 | 324 |
| with inductive limit switches | 299 | 251 | 365 |
| with manual override / inductive limit switches | 299 | 251 | 365 |

| flanges PN | DIN | ØD | Øk | Ød |
|------------|-----------|-----|-----|----|
| 16 | EN 1092-1 | 150 | 110 | 18 |
| 40 | EN 1092-1 | 150 | 110 | 18 |
| 100 | EN 1092-1 | 170 | 125 | 22 |

type FK 40 Ex

function: **NO**
open when not energized

