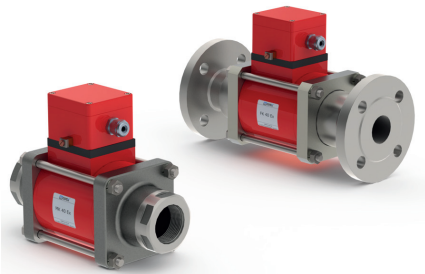
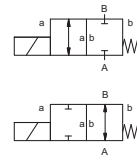


# coaxial valve

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

**valve seat seal materials** synthetic resin on metal  
 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**

**ports** MK threads G 1 1/2 - G 2  
 FK flanges PN 16 / 40 / 100  
**function** NC  
**pressure range** bar 0-16 / 0-40 / 0-64  
**Kv value** m³/h 18,4  
**vacuum** leak rate < 10<sup>-6</sup> mbar·l·s<sup>-1</sup>  
**pressure-vacuum** P1 ⇔ P2 upon request  
**back pressure** P2 > P1 available (max. 16 bar)  
**media** gaseous - liquid - highly viscous - gelatinous - contaminated  
**abrasive media** upon request  
**damping** opening closing available  
**flow direction** A ⇔ B as marked  
**switching cycles** 1/min 90  
**switching time** ms opening 520 closing 150  
**media temperature** °C DC: -20 to +40 AC: -20 to +40  
**ambient temperature** °C DC: -20 to +40 AC: -20 to +40  
**limit switches** inductive available  
**manual override** LR/GL/WAZ  
**approvals** mounting brackets  
**weight** kg MK 14,0 FK 18,0  
**additional equipment** upon request

**options**

**electrical specifications**

**nominal voltage** U<sub>n</sub> DC 24 V  
 U<sub>n</sub> AC 230 V 40-60 Hz  
**actuation** DC direct-current magnet  
 AC direct-current magnet with separate rectifier outside of the explosion-proof area  
**insulating rating** H 180°C  
**protection** IP65  
**energized duty rating** ED 100%  
**connection** M16x1,5 terminal box

**options**

		special voltage upon request
		special voltage upon request
		sand sealed rectifier
<b>optional additional equipment</b>		
<b>current consumption</b>	U <sub>n</sub> V-DC 24 200	20 48 98 110 210 220 230
	I <sub>n</sub> A 2,05 0,29	2,72 1,07 0,54 0,48 0,25 0,25 0,21

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.

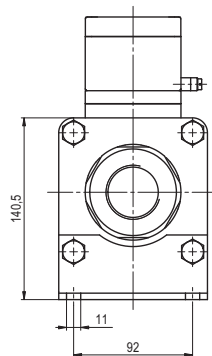
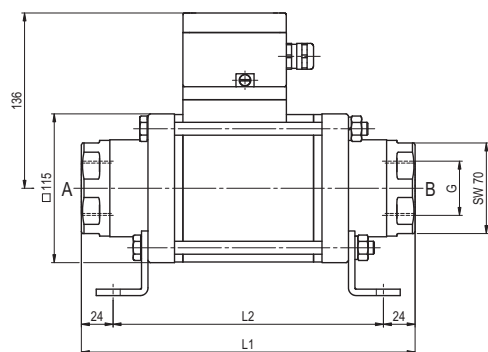
**optional additional equipment**

**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	L1	L2	L3
standard	258	210	324
with inductive limit switches	299	251	365
with manual override / inductive limit switches	299	251	365

flanges PN	DIN	$\varnothing D$	$\varnothing k$	$\varnothing d$
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

