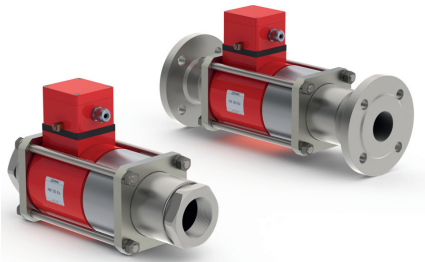
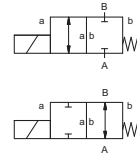


# coaxial valve

type **MK 50 Ex**  
**FK 50 Ex**



**2/2 way valve** direct acting  
**pressure range** PN 0-16 bar  
**orifice** DN 50 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**

**options**

<b>ports</b>	MK threads G 2 FK flanges PN 16	special threads special flanges
<b>function</b>	NC	NO
<b>pressure range</b>	bar 0-16	
<b>Kv value</b>	m <sup>3</sup> /h 28,2	
<b>vacuum</b>	leak rate	< 10 <sup>-6</sup> mbar·l·s <sup>-1</sup>
<b>pressure-vacuum</b>	P <sub>1</sub> ⇔ P <sub>2</sub>	upon request
<b>back pressure</b>	P <sub>2</sub> > P <sub>1</sub>	available (max. 10 bar)
<b>media</b>	gaseous - liquid - highly viscous - gelatinous - contaminated	
<b>abrasive media</b>		upon request
<b>damping</b>	opening closing	available
<b>flow direction</b>	A ⇔ B as marked	bi-directional (max. 10 bar)
<b>switching cycles</b>	1/min 40	
<b>switching time</b>	ms opening 400 closing 400	
<b>media temperature</b>	°C DC: -20 to +40 AC: -20 to +40	
<b>ambient temperature</b>	°C DC: -20 to +40 AC: -20 to +40	
<b>limit switches</b>		inductive
<b>manual override</b>		available
<b>approvals</b>		LR/GL/WAZ
<b>mounting</b>		mounting brackets
<b>weight</b>	kg MK 25,5 FK 31,0	
<b>additional equipment</b>		upon request

**electrical specifications**

**options**

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

**optional additional equipment**

<b>current consumption</b>	U <sub>n</sub> V-DC 24 210 I <sub>n</sub> A 2,80 0,33	48 98 110 220 1,48 0,72 0,57 0,32
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**explosion proof**

II 2 G Ex mb e II T4  
 II 2 D Ex tD A21 IP65 T130 °C  
 PTB 03 ATEX 2056 X

**limit switches**

inductive NAMUR circuit amplifier

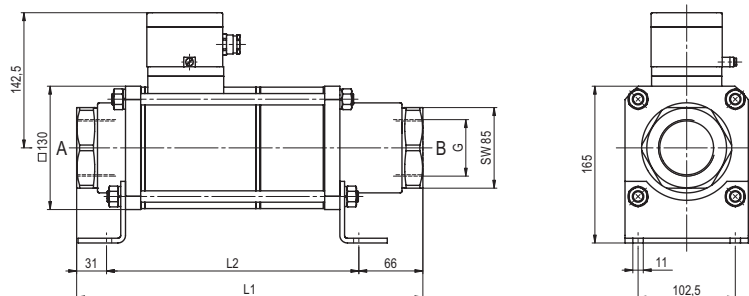
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

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.

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

# type MK 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

# type FK 50 Ex

function: **NO**  
open when not energized

