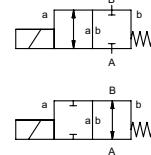


## coaxial valve

type **MK 15 Ex**  
**FK 15 Ex**

<b>2/2 way valve</b>	<b>direct acting</b>
<b>pressure range</b>	PN 0-100 bar
<b>orifice</b>	DN 15 mm
<b>connection</b>	thread/flange
<b>function</b>	valve normally closed symbol <b>NC</b>
	valve normally open symbol <b>NO</b>



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

**design** pressure balanced, with spring return

<b>body materials</b>	① brass	② steel galvanized
	③ brass, nickel plated	⑤ without non-ferr. Metals
	④ steel, nickel plated	⑥ stainless steel

<b>valve seat</b>	synthetic resin on metal
<b>seal materials</b>	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

<b>ports</b>	MK threads G 3/8 - G 3/4	<b>options</b>	special threads
	FK flanges PN 16 / 40 / 100		special flanges
<b>function</b>	NC		NO
<b>pressure range</b>	bar 0-16 / 0-40 / 0-64 / 0-100		> 100 bar upon request
<b>Kv value</b>	4,8		> 16 bar = 2,5
<b>vacuum</b>	leak rate < 10 <sup>-6</sup> mbar·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. 16 bar)
<b>media</b>	gaseous - liquid - highly viscous - gelatinous - contaminated		
<b>abrasive media damping</b>			upon request
<b>opening</b>			
<b>closing</b>			available
<b>flow direction</b>	A ↔ B as marked		bi-directional (max. 16 bar)
<b>switching cycles</b>	1/min 200		
<b>switching time</b>	ms opening 80		
	closing 80		
<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 3,8 FK 5,0		
<b>additional equipment</b>			upon request

## electrical specifications

<b>nominal voltage</b>	U <sub>n</sub> DC 24 V	<b>options</b>	special voltage upon request
	U <sub>n</sub> AC 230 V 40-60 Hz		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		
<b>optional additional equipment</b>			
<b>current consumption</b>	U <sub>n</sub> V-DC 24 200	48 98 110 220	
	I <sub>n</sub> A 1,20 0,15	0,60 0,30 0,28 0,14	
<b>explosion proof</b>	II 2 G Ex mb e II T4	II 2 G Ex mb II T4	
	II 2 D Ex tD A21 IP65 T130 °C		
	PTB 02 ATEX 2120 X		
<b>limit switches</b>	inductive NAMUR	circuit amplifier	

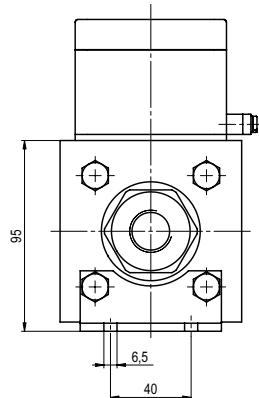
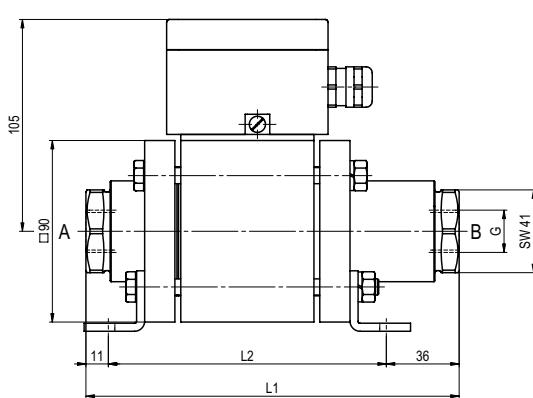
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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 15 Ex

function: **NC**  
closed when not energized



constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	185	138	242
with inductive limit switches	234	187	291
with manual override / inductive limit switches	234	187	291

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	95	65	14
40	EN 1092-1	95	65	14
100	EN 1092-1	105	75	14

## type FK 15 Ex

function: **NO**  
open when not energized

