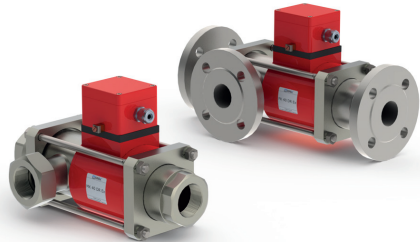
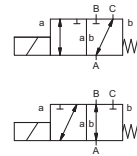


# coaxial valve

## type MK 40 DR Ex FK 40 DR Ex



**3/2 way valve** direct acting  
**pressure range** PN 0-16 bar  
**orifice** DN 40 mm  
**connection** thread/flange  
**function** valve normally closed (A ► B)  
 symbol **NC**  
 valve normally open (A ► B)  
 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, intersecting switch-over

**body materials** ① ② steel galvanized  
 ③ 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
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

**general specifications**

**options**

<b>ports</b>	MK threads G 1 1/2 - G 2	special threads
	FK flanges PN 16	special flanges
<b>function</b>	NC	NO
<b>pressure range</b>	bar 0-16	
	A ⇨ B max. 16 / B ⇨ A max. 16 / A ⇨ C max. 16 / C ⇨ A max. 16	
<b>Kv value</b>	m <sup>3</sup> /h 18,4 [A ⇨ B] 11,5 [A ⇨ C]	
<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>	see pressure range
<b>media</b>	gaseous - liquid - highly viscous - gelatinous - contaminated	
<b>abrasive media</b>		upon request
<b>damping</b>	opening	
	closing	
<b>flow direction</b>	see pressure range	
<b>switching cycles</b>	1/min 90	
<b>switching time</b>	ms opening 520	
	closing 150	
<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 18,5 FK 23,0	
<b>additional equipment</b>		upon request

**electrical specifications**

**options**

<b>nominal voltage</b>	U <sub>n</sub> DC 24 V	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	

**optional additional equipment**

<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

**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

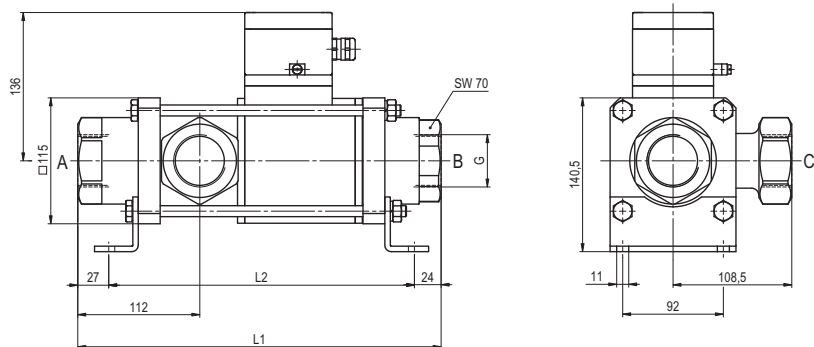
The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

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 40 DR Ex**

function: **NC**  
closed when not energized (A ► B)



constructive length	L1	L2	L3
standard	332	281	394
with inductive limit switches	373	322	435
with manual override / inductive limit switches	373	322	435

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	150	110	18

# type **FK 40 DR Ex**

function: **NO**  
open when not energized (A ► B)

