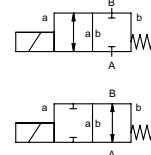


## coaxial valve

type **MK 20 Ex**  
**FK 20 Ex**

<b>2/2 way valve</b>	<b>direct acting</b>
<b>pressure range</b>	PN 0-100 bar
<b>orifice</b>	DN 20 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!

<b>design</b>	pressure balanced, with spring return
<b>body materials</b>	① brass ③ brass, nickel plated ④ steel, nickel plated
	② steel galvanized ⑤ without non-ferr. Metals 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 3/4 - G 1 1/4	<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>	7,4		
<b>vacuum</b>	leak rate $< 10^{-6}$ 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. 16 bar)
<b>media</b>	gaseous - liquid - highly viscous - gelatinous - contaminated		
<b>abrasive media damping</b>			upon request
<b>flow direction</b>	opening		
<b>switching cycles</b>	closing		available
	A ↔ B as marked		bi-directional (max. 16 bar)
<b>switching time</b>	1/min 150		
	ms opening 110		
	closing 110		
<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>		<b>options</b>	inductive
<b>manual override</b>			available
<b>approvals</b>			LR/GL/WAZ
<b>mounting</b>			mounting brackets
<b>weight</b>	kg MK 5,5 FK 7,5		
<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
	I <sub>n</sub> A 1,34 0,17	110	220
		0,68	0,32
		0,28	0,14

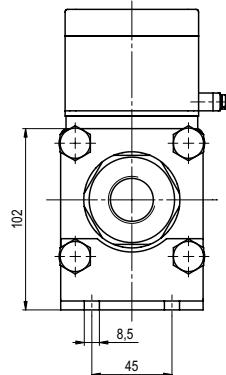
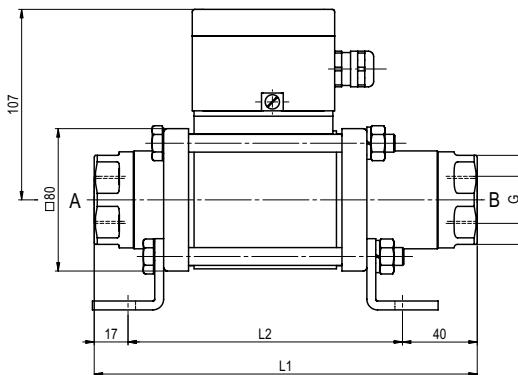
<b>explosion proof</b>	II 2 G Ex mb e II T4	
	II 2 D Ex tD A21 IP65 T130 °C	
	PTB 03 ATEX 2049 X	

<b>limit switches</b>	inductive NAMUR	circuit amplifier

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

## type MK 20 Ex

function: **NC**  
closed when not energized



constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	215	158	269
with inductive limit switches	259	202	313
with manual override / inductive limit switches	259	202	313

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	105	75	14
40	EN 1092-1	105	75	14
100	EN 1092-1	130	90	18

## type FK 20 Ex

function: **NO**  
open when not energized

