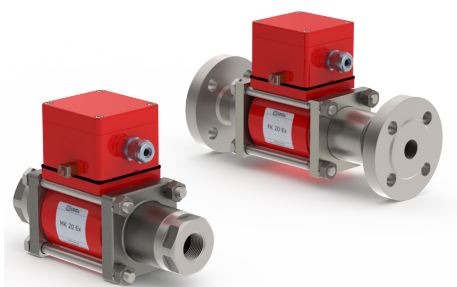
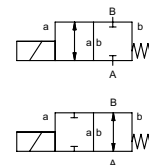



## coaxial valve

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


**2/2 way valve**  
**pressure range** PN 0-100 bar  
**orifice** DN 20 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** synthetic resin on metal  
**seal materials** 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
	FK	flanges PN 16 / 40 / 100
<b>function</b>	NC	
<b>pressure range</b>	bar 0-16 / 0-40 / 0-64 / 0-100	
<b>Kv value</b>	m³/h	7,4
<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. 16 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
<b>switching cycles</b>	1/min	150
<b>switching time</b>	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>	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	


## options


## electrical specifications

<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	

## options

<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	0,68	0,32
					110	220
					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			

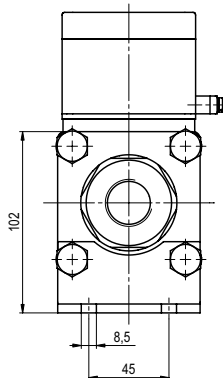
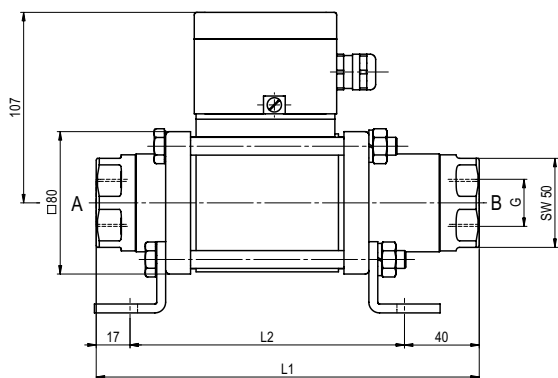
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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 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

