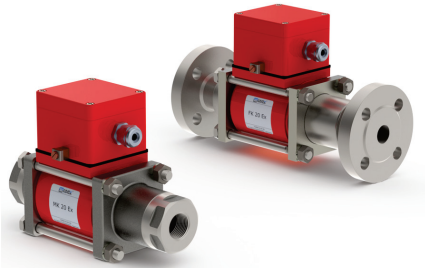
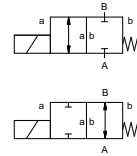


# coaxial valve

## type MK 20 Ex FK 20 Ex



**2/2 way valve** **direct acting**  
**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		options
<b>ports</b>	MK threads G 3/4 - G 1 1/4 FK flanges PN 16 / 40 / 100	special threads 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>	m <sup>3</sup> /h 7,4	
<b>vacuum</b>		< 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	bi-directional (max. 16 bar)
<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

**⚠** 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.

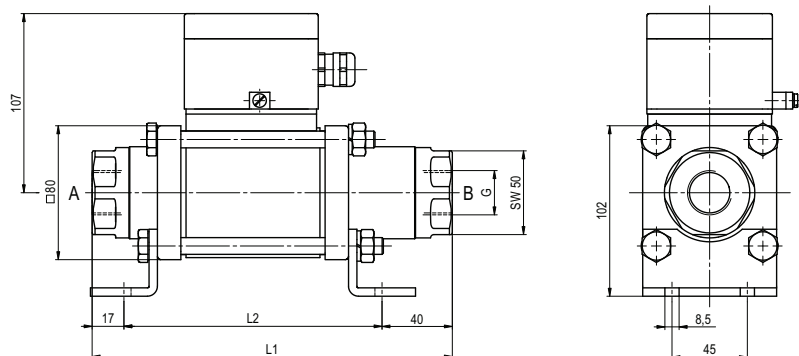
**⚠** If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

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 special voltage
<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 I <sub>n</sub> A 1,34 0,17	48 98 110 220 0,68 0,32 0,28 0,14
<b>explosion proof</b>	II 2 G EEx em II T4 und II 2 D IP 65 T 130 °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	L1	L2	L3
standard	215	158	269
with 1/2 inductive limit switches	259	202	313
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	259	202	313

flanges PN	DIN	$\varnothing D$	$\varnothing k$	$\varnothing d$
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

