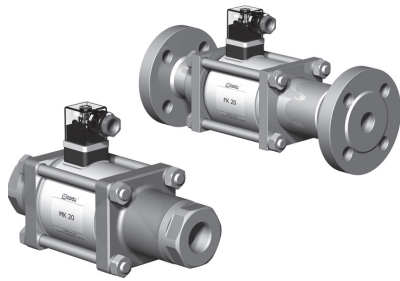
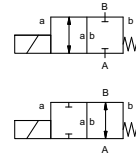


# coaxial valve

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



**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>	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	upon request
<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 +100 AC: -20 to +100	-40 to +160 -40 to +160
<b>ambient temperature</b>	°C DC: -20 to +80 AC: -20 to +80	
<b>limit switches</b>		inductive/mech. (depend. on temperature)
<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.

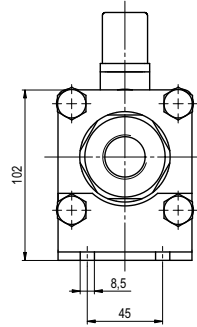
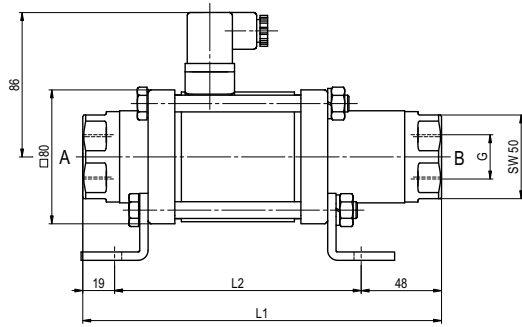
**⚠** If order or application specifications are incomplete or imprecise there exists a risk of an incorrect technical design of the valve for the required application. As a consequence, the physical and / or chemical properties of the materials or seals used, may not be suitable for the intended application.

electrical specifications		options
<b>nominal voltage</b>	U <sub>n</sub> 24 V DC U <sub>n</sub> 230 V 40-60 Hz AC	special voltage upon request special voltage upon request
<b>actuation</b>	DC direct-current magnet AC direct-current magnet with integrated rectifier	above 100°C with separate rectifier
<b>insulation rating</b>	H 180°C	
<b>protection</b>	IP65	
<b>energized duty rating</b>	ED 100%	
<b>connection</b>	plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm	terminal box M16x1,5
<b>optional additional equipment</b>	M12x1 connector acc. DESINA illuminated plug with varistor	connector acc. VDMA
<b>current consumption</b>	N-coil 24 V DC 1,56 A 230 V 40-60 Hz AC 0,16 A	
<b>H-coil</b>		24 V DC 2,24 A 230 V 40-60 Hz AC 0,28 A
<b>explosion proof</b>		
<b>limit switches</b>	inductive (I) inductive (B) mechanical	normally open-PNP normally open-PNP single pole double throw-SPDT

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

# type MK 20

function: **NC**  
closed when not energized

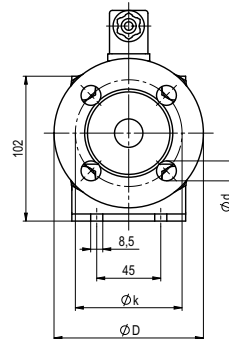
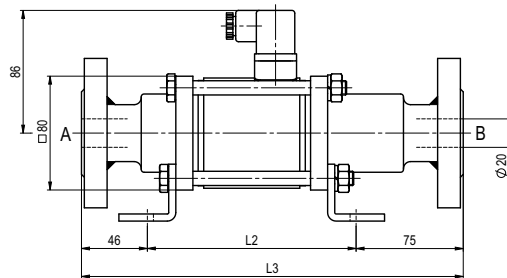


constructive length	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
standard	215	148	269
with 1/2 inductive limit switches	259	192	313
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	259	192	313
with mechanical limit switches	259	192	313

flanges PN	DIN	øD	øk	ød
16	2633	105	75	14
40	2635	105	75	14
100	2637	130	90	18

# type FK 20

function: **NO**  
open when not energized



The application-specific layout relating to temperature, pressure conditions, switching behavior, media and its consistency may restrict the range of use or necessitate relevant modifications to materials used and seal arrangements.

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