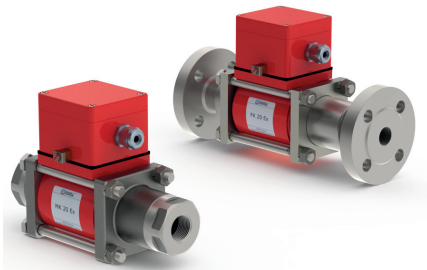
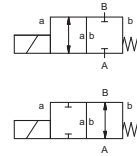


coaxial valve

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 seal materials synthetic resin on metal
 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

ports	MK threads G 3/4 - G 1 1/4	FK flanges PN 16 / 40 / 100
function	NC	NO
pressure range	bar	0-16 / 0-40 / 0-64 / 0-100
Kv value	m ³ /h	7,4
vacuum	leak rate	< 10 ⁻⁶ mbar·l·s ⁻¹
pressure-vacuum	P ₁ ⇔ P ₂	upon request
back pressure	P ₂ > P ₁	available (max. 16 bar)
media	gaseous - liquid - highly viscous - gelatinous - contaminated	
abrasive media	upon request	
damping	opening closing	available
flow direction	A ⇔ B	as marked
switching cycles	1/min	150
switching time	ms	opening 110 closing 110
media temperature	°C	DC: -20 to +40 AC: -20 to +40
ambient temperature	°C	DC: -20 to +40 AC: -20 to +40
limit switches	inductive available	
manual override	LR/GL/WAZ	
approvals	mounting brackets	
weight	kg	MK 5,5 FK 7,5
additional equipment	upon request	

options

electrical specifications

nominal voltage	U _n	DC 24 V	special voltage upon request
	U _n	AC 230 V 40-60 Hz	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet with separate rectifier outside of the explosion-proof area	sand sealed rectifier
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection	M16x1,5	terminal box	

options

optional additional equipment				
current consumption	U _n	V-DC 24 200	48 98 110 220	
	I _n	A 1,34 0,17	0,68 0,32 0,28 0,14	

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

limit switches inductive NAMUR circuit amplifier

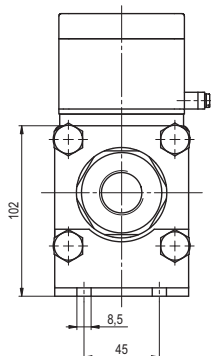
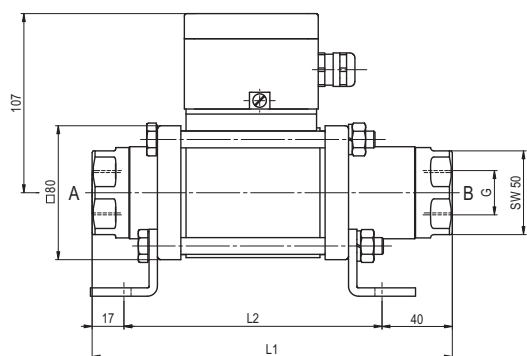
△ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

△ 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 20 Ex

function: **NC**
closed when not energized



constructive length	L1	L2	L3
standard	215	158	269
with inductive limit switches	259	202	313
with manual override / inductive 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

