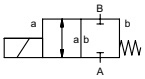
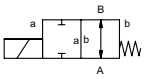
coaxial valve

type MK 40
FK 40

2/2 way valve	**direct acting**	
pressure range	PN 0-64 bar (NO: 0-40 bar)	
orifice	DN 40 mm	
connection	thread/flange	
function	valve normally closed symbol	**NC**
	valve normally open symbol	**NO**





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

⚠ Above stated body materials refer to the valve port connections that get in contact with the media only!

details needed

- orifice
- port
- function NC/NO
- operating pressure
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage

general specifications			**options**
ports	MK	threads G 1 1/2 - G 2	special threads
	FK	flanges PN 16/40/100	special flanges
function		NC	NO
pressure range	bar	0-16/0-40/0-64	0-16/0-40
Kv value	m³/h	18,4	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		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	bi-directional (max. 16 bar)
switching cycles	1/min	90	
switching time	ms	opening 520 closing 150	
media temperature	°C	DC: -40 to +100	-40 to +160
		AC: -40 to +100	-40 to +160
ambient temperature	°C	DC: -40 to +80	
		AC: -40 to +80	
limit switches			inductive/mech. (depend. on temperature)
manual override			available
approvals			LR/GL/WAZ
mounting			mounting brackets
weight	kg	MK 14,0 FK 18,0	
additional equipment			upon request

electrical specifications			**options**
nominal voltage	U_n	24 V DC	special voltage upon request
	U_n	230 V 40-60 Hz AC	special voltage upon request
actuation	DC	direct-current magnet	
	AC	direct-current magnet with integrated rectifier	above 100°C with separate rectifier
insulation rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form A, 4 positions x 90° / wire diameter 6-8 mm	terminal box M16x1,5
optional additional equipment		illuminated plug with varistor	
current consumption	N-coil	24 V DC 2,07 A	
		230 V 40-60 Hz AC 0,28 A	
	H-coil		24 V DC 3,27 A
			230 V 40-60 Hz AC 0,44 A
explosion proof			
limit switches		inductive (I)	normally open-PNP
		inductive (B)	normally open-PNP
		mechanical	single pole double throw-SPDT

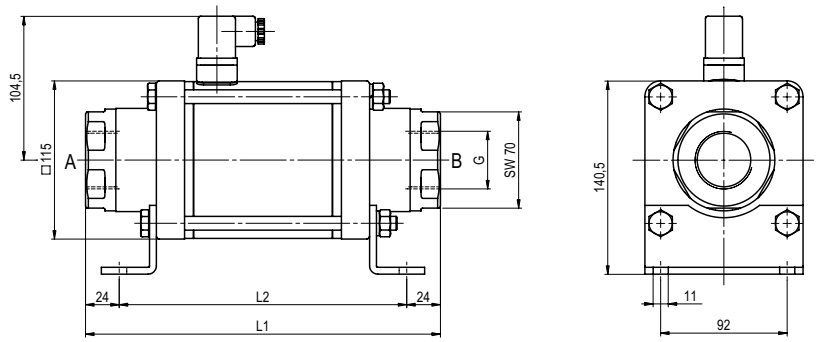
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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 40**

function: **NC**
closed when not energized



constructive length	L_1	L_2	L_3
standard	258	210	324
with 1/2 inductive limit switches	299	251	365
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	299	251	365
with mechanical limit switches	299	251	365

flanges PN	DIN	øD	øk	ød
16	2633	150	110	18
40	2635	150	110	18
64	2637	170	125	22

type **FK 40**

function: **NO**
open when not energized