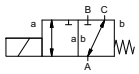
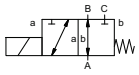
coaxial valve

type MK 40 DR
FK 40 DR

3/2 way valve	**direct acting**
pressure range	PN 0-16 bar
orifice	DN 40 mm
connection	thread/flange
function	valve normally closed (A ►B) symbol **NC**



valve
normally open (A ►B)
symbol **NO**



design	pressure balanced, with spring return, switching overlap	
body materials	①	② steel, galvanized
	③	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
- inlet pressure at A, B or C
- 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	special flanges
function		NC	NO
pressure range	bar	0-16	
		A ⇨ B max. 16 / B ⇨ A max. 16 / A ⇨ C max. 16 / C ⇨ A max. 16	
Kv value	m^3/h	18,4 [A ⇨ B] 11,5 [A ⇨ C]	
vacuum	leak rate		< 10^{-6} mbar•l•s^{-1}
pressure-vacuum	$P_1 \Leftrightarrow P_2$		upon request
back pressure	$P_2 > P_1$	see pressure range	
media		gaseous - liquid - highly viscous - gelatinous - contaminated	
abrasive media			upon request
damping	opening		
	closing		
flow direction		see pressure range	
switching cycles	1/min	90	
switching time	ms	opening 520 closing 150	
media temperature	°C	DC: -20 to +100	-40 to +160
		AC: -20 to +100	-40 to +160
ambient temperature	°C	DC: -20 to +80	
		AC: -20 to +80	
limit switches			inductive / mech. (depend. on temperature)
manual override			available
approvals			LR/GL/WAZ
mounting			mounting brackets
weight	kg	MK 18,5 FK 23,0	
additional equipment			upon request

electrical specifications

			options
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 integrated rectifier	above 100 °C with separate rectifier
insulating rating	H	180°C	
protection	IP65		
energized duty rating	ED	100%	
connection		plug acc. DIN EN 175301-803 form A, 4 positions x90° / wire diameter 6-8 mm	terminal box M16x1,5
optional additional equipment			
		iluminated plug with varistor	
current consumption	N-coil	DC 24 V 2,07 A	
		AC 230 V 40-60 Hz 0,28 A	
	H-coil		DC 24 V 3,27 A
			AC 230 V 40-60 Hz 0,44 A
explosion proof			
limit switches		inductive (I)	normally open-PNP
		inductive (B)	normally open-PNP
		mechanical	single pole double throw-SPDT

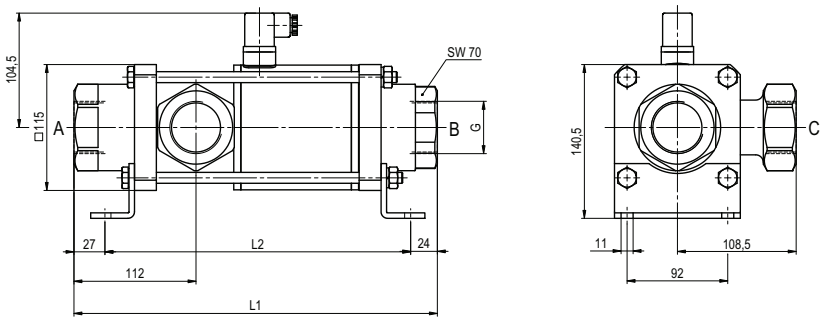
⚠ The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

⚠ 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 DR**

function: **NC**
closed when not energized (A ►B)



constructive length	L_1	L_2	L_3
standard	332	281	394
with 1/2 inductive limit switches	373	322	435
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	373	322	435
with mechanical limit switches	373	322	435

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	150	110	18

type **FK 40 DR**

function: **NO**
open when not energized (A ►B)