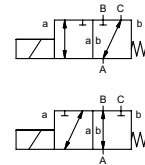



coaxial valve

type MK 20 DR FK 20 DR



3/2 way valve direct acting
pressure range PN 0-40 bar
orifice DN 20 mm
connection thread/flange
function valve
 normally closed (A ► B)
 symbol **NC**
 valve
 normally open (A ► B)
 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, switching overlap
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
- inlet pressure at A, B or C
- flow rate
- media
- media temperature
- ambient temperature
- nominal voltage


general specifications

ports	MK	threads G 3/4 - G 1 1/4	options
	FK	flanges PN 16 / 40	special threads
function		NC	special flanges
pressure range		0-16 / 0-40	NO
		A ⇒ B max. 40 / B ⇒ A max. 16 / A ⇒ C max. 40 / C ⇒ A max. 40	
Kv value		m³/h 6,7	
vacuum		leak rate	< 10 ⁻⁶ mbar·l·s ⁻¹
pressure-vacuum		P ₁ ⇌ 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 150	
switching time		ms opening 110 closing 110	
media temperature		°C DC: -20 to +80	-40 to +160
		AC: -20 to +80	-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 6,0 FK 8,4	
additional equipment			upon request

electrical specifications

nominal voltage	U _n	DC 24 V	options
	U _n	AC 230 V 40-60 Hz	special voltage upon request
actuation	DC	direct-current magnet	special voltage upon request
	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	M12x1	connector acc. DESINA	connector acc. VDMA
additional equipment		illuminated plug with varistor	
current consumption	N-coil	DC 24 V 1,56 A	
		AC 230 V 40-60 Hz 0,16 A	
	H-coil		DC 24 V 2,24 A
			AC 230 V 40-60 Hz 0,28 A
explosion proof			
limit switches		inductive (I)	normally open-PNP
		inductive (B)	normally open-PNP
		mechanical	single pole double throw-SPDT

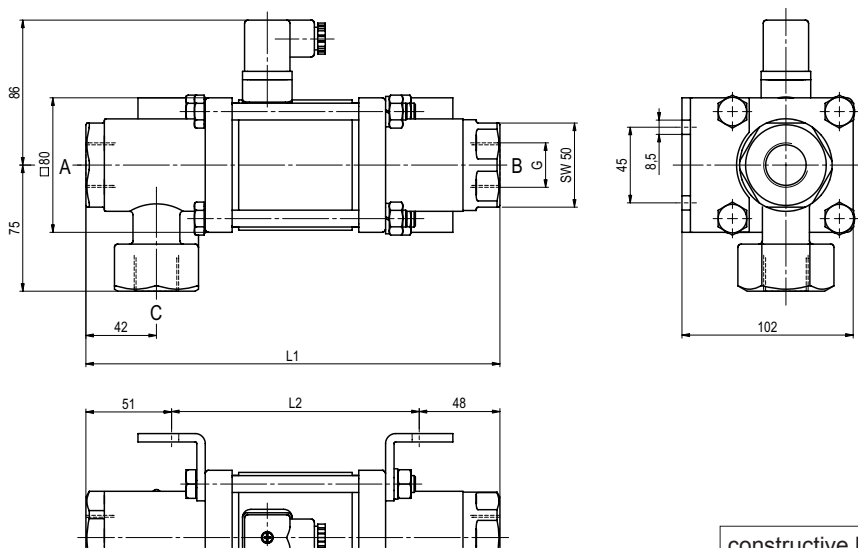
 The valves' technical design is based on media and application requirements. This can lead to deviations from the general specifications shown on the data sheet with regards to the design, sealing materials and characteristics.

 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 20 DR**

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



constructive length	L1	L2	L3
standard	247	148	301
with 1/2 inductive limit switches	291	192	345
with manual emergency (Hd)/ Hd and 1/2 ind. limit switches	291	192	345
with mechanical limit switches	291	192	345

flanges PN	DIN	ØD	Øk	Ød
16	EN 1092-1	105	75	14
40	EN 1092-1	105	75	14

type **FK 20 DR**

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

