



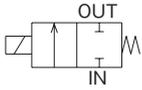
Metal-free 2-port solenoid valve

MKB3 Series

- NC (Normally Closed)
- Working fluid: Water/pure water/chemical liquids
- Port size: M6/1/4-28UNF



JIS symbol



Specifications

Item	MKB3	
Actuation	NC (open when energized)	
Working fluid	Water/Pure water/Chemical liquids (fluids that do not corrode wetted part materials)	
Proof pressure MPa	0.5(water pressure)	
Working pressure MPa	-0.08 to 0.25	
Back pressure MPa	0 to 0.25	
Fluid temperature °C	5 to 50	
Ambient temperature °C	5 to 50	
Atmosphere	No explosive or corrosive atmospheres	
Valve seat leakage cm ³ /min	0(water pressure)	
Port size	M6,1/4-28UNF	
Orifice size mm	1.5	
Cv	0.04	
Valve structure	Diaphragm direct acting valve	
Mounting orientation	Unrestricted	
Weight g	50	
Electrical specifications		
Rated voltage	24 VDC/12 VDC	
Voltage fluctuation range	±5%	
Power consumption W	Standard	2.5
	Energy saving With circuit	2.5(*2)
	When starting When holding	1
Leakage current mA	1.0 or less(24 VDC)/2.0 or less(12 VDC)(*3)	
Thermal class	Class 130(B)	

*1: When using sodium hypochlorite (soda), select FKM for the diaphragm material. (EPDM will deteriorate over long-term use even with tap water levels of residual chlorine) For 0.1% or less effective concentration, perform functional testing according to your application before use. Do not use effective chlorine concentration exceeding 0.1%.

*2: Time from energizing to 200ms.

*3: The leakage current from the control circuit must be equal to or less than the values shown in the table.

*4: As this product has an integrated electronic circuit board, do not use it in very humid atmospheres.

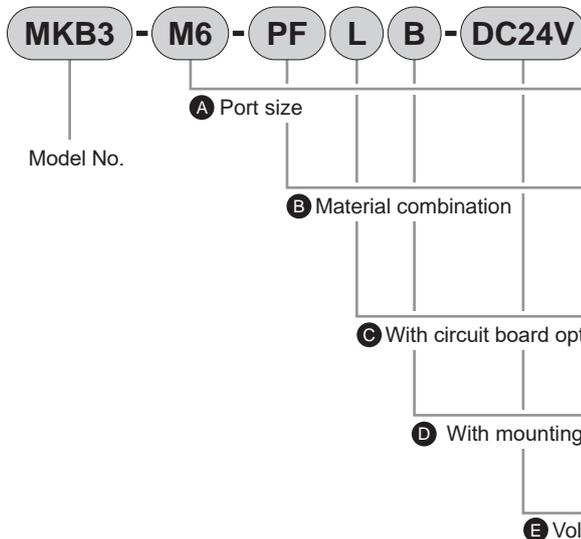
*5: Solenoid valve has polarity. Connect the red lead wire to the plus (+) side. (With circuit board option: for L)

*6: After the solenoid valve is completely switched OFF, set an interval of one second or more before switching it ON the next time. (With circuit board option: for L)

*7: For the mounting plate option, slide the product in the piping direction by pulling the lever to remove from the mounting plate.

*8: Make sure to read the safety precautions on pages 3 to 8 before use.

How to order



Code	Description
A Port size	
M6	M6
4U	1/4-28UNF
B Material combination	
	Body material Diaphragm material
PF	PPS FKM
PE	PPS EPDM
C With circuit board option	
Blank	No option
L	With lamp/energy saving board
D With mounting plate option	
B	With mounting plate(Standard)*1
N	Without mounting plate Note2
E Voltage	
DC24V	24 VDC
DC12V	12 VDC

*1: Mounting plate is included.

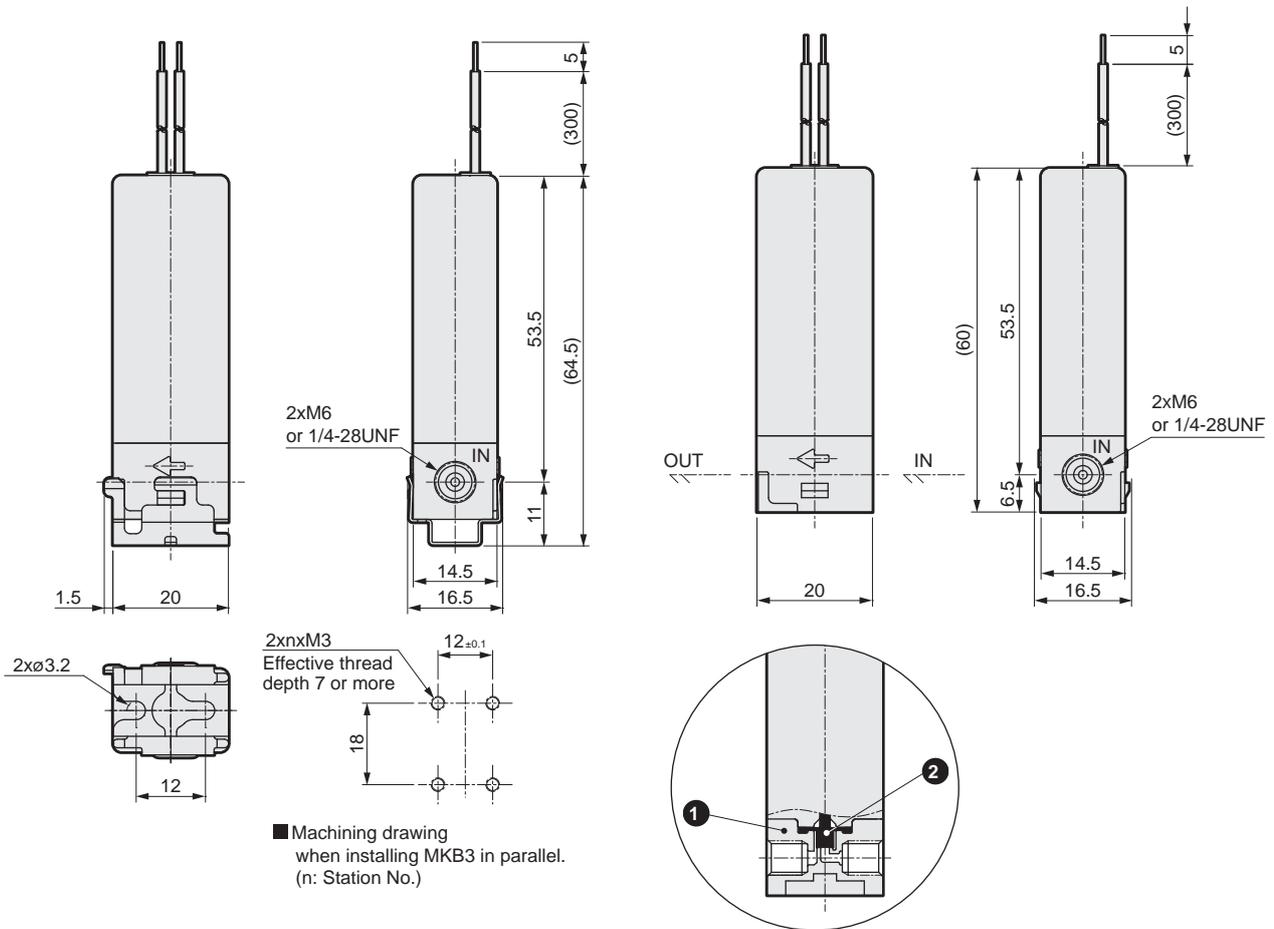
*2: Cannot be installed with solenoid Discrete without mounting plate.

MKB3 Series

Dimensions

● With mounting plate(Standard)

● Without mounting plate

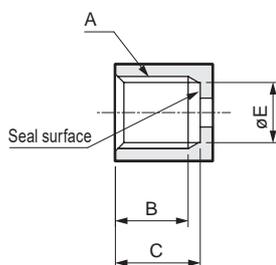


Main part material

Cannot be disassembled

Part No.	Part name	Material	
①	Body	PPS	Polyphenylene sulfide
②	Diaphragm	FKM, EPDM	Fluoro rubber, ethylene propylene rubber

● Port size dimensions



Model No.	A	B	C	E
MKB3-M6	M6	6	7	4.9
MKB3-4U	1/4-28UNF	6	7	5.36