

Metal-free 2-port solenoid valve

MKB3 Series

Working fluid: Water/pure water/chemical liquids

Port size: M6/1/4-28UNF





EXA

FWD

FAB/G

FGB/G

FVB

FWB/G **FHB**

FLB

AB AG AP/ ΑD APK/ **ADK** DryAir EX-XPLNprf XPLNprf HVB/ HVL S \$ B/

NAB

LAD/

NAD

Water-

NP/NAP/

SNP

CHB/G

Rela

NVP

JIS symbol

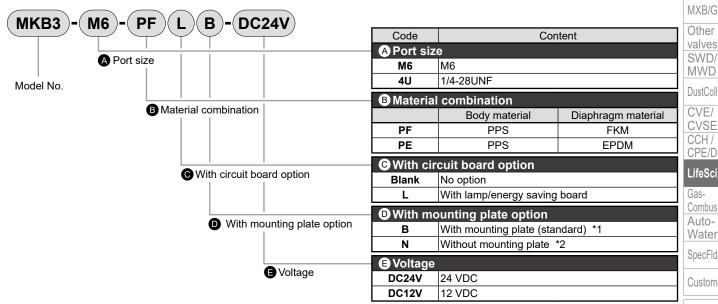


Specifications

Descriptions			MKB3			
Actuation			NC			
Working fluid			Water/pure water/chemical liquids (fluids that do not corrode wetted part materials)			
Proof pressure MPa		MPa	0.5 (≈73 psi, 5 bar) (water pressure)			
Working pressure MPa		MPa	-0.08 (≈-12 psi, -0.8 bar) to 0.25 (≈36 psi, 2.5 bar)			
Back pressure MPa		MPa	0 (≈0 psi, 0 bar) to 0.25 (≈36 psi, 2.5 bar)			
Fluid temperature °C		°C	5 (41°F) to 50 (122°F)			
Ambient temperature °C		°C	5 (41°F) to 50 (122°F)			
Atmosphere			No explosive or corrosive atmospheres			
Valve seat leakage cm³/min		cm ³ /min	0 (water pressure)			
Port size			M6, 1/4-28UNF			
Orifice size mm		mm	1.5			
Cv			0.04			
Valve structure			Diaphragm direct acting valve			
Mounting orientation			Unrestricted			
Weight g		g	50			
Electrical specifications						
Rated voltage			24 VDC/12 VDC			
Voltage fluctuation range			±5%			
Power	Stan	dard	2.5			
consumption En	ergy saving	Starting	2.5 (*2)			
	/ith circuit		1			
Leakage current mA		mA	1.0 or less (24 VDC)/2.0 or less (12 VDC) (*3)			
Thermal class			Class 130 (B)			
*4. \\/						

- *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. Contact CKD for more than 0.1% effective chlorine concentration.
- *2: Time from energizing to 200 ms.
- *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.

How to order



*1 : Mounting plate is attached.

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

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Ending

MKB3 Series

EXA

FWD HNB/G

USB/G

FAB/G FGB/G

FVB

FWB/G FHB

FLB

AB AG

AP/ AD APK/ ADK

DryAir EX-XPLNprf

XPLNprf HVB/ HVL S∜B/ NAB

NAB LAD/ NAD Water-Rela NP/NAP/ NVP

SNP CHB/G

MXB/G Other valves SWD/ MWD

CVE/ CVSE CCH/ CPE/D

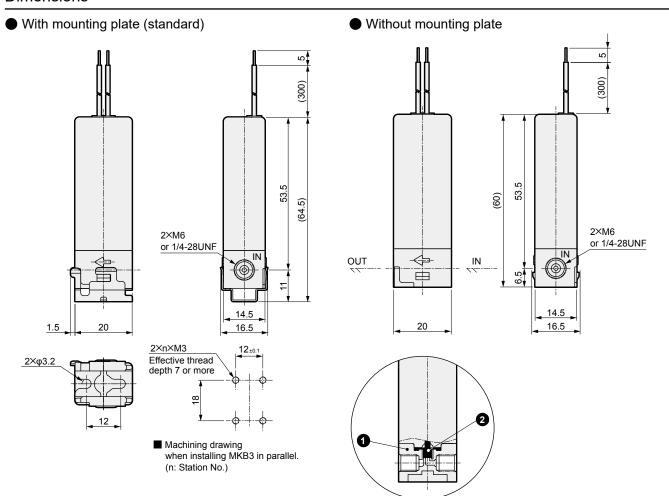
LifeSci Gas-

Combus
AutoWater
SpecFld

Custom

Ending

Dimensions



Main part material

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

CAUTION

- *1 : Slide the product in the piping direction by pulling the lever to remove from the mounting plate.
- *2 : Do not use metal fittings because they could damage the port. Use a PP or fluorine resin fitting. Refer to the recommended fitting tightening torque below. Recommended tightening torque: 0.10 to 0.15 N·m
- *3: Do not disassemble the product.
- *4 : Foreign matter, etc., inside the piping may cause malfunction and valve seat leakage. Always flush the piping before installing the valve.
- *5: When using vertical piping on the secondary side, keep it within 2 m in height. Use tubing or piping with the same or larger bore size as the orifice size to fix the pipe.
- *6 : Do not hold the lead wire while handling.