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Aoleaby MKC-1

Instruction Manual: Aoleaby MKC-1 AC Solenoid Coil

Model: MKC-1 | Brand: Aoleaby

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Aoleaby MKC-1 AC Solenoid Coil. Please read this manual thoroughly before use to ensure safe and efficient performance of the product.



This image displays the Aoleaby MKC-1 AC Solenoid Coil, a component designed for controlling fluid or air flow. The coil is shown out of its packaging, which is a blue and white box labeled 'SOLENOID COIL KIT'. The coil itself features a metallic casing with black, ribbed insulation, indicating its robust construction.

Key Features

- Brass construction and a copper solenoid for durability and efficient operation.
- Normally closed electric solenoid valve, ensuring flow is stopped when de-energized.
- Designed as a 2-way solenoid valve with a robust brass body.
- Applicable in various fields including irrigation controls, liquid controls, and air controls.
- Constructed of industrial grade brass, which is highly conducive for welding and robust applications.

Specifications

Specification	Value
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Specification	Value
Model Number	MKC-1
Manufacturer	Aoleaby
Item Weight	10.6 ounces
Package Dimensions	1.18 x 0.79 x 0.39 inches
Number of Pieces	1
Assembly Required	No

SETUP AND INSTALLATION

The MKC-1 AC Solenoid Coil is designed for integration into existing valve bodies. Proper installation is crucial for safe and effective operation. It is recommended that installation be performed by a qualified professional.

Installation Steps:

- Safety First:** Ensure that the power supply to the system is completely disconnected before beginning any installation work. Verify the voltage of the coil (AC24V, AC120V, or 208-240V) matches your system's requirements.
- Prepare the Valve Body:** Ensure the valve body where the coil will be installed is clean and free of debris.
- Mount the Coil:** Carefully slide the solenoid coil onto the valve stem or plunger. Ensure it seats properly and securely.
- Secure the Coil:** If applicable, use any provided retaining clips or nuts to firmly secure the coil in place. Do not overtighten.
- Electrical Connection:** Connect the coil's electrical leads to the appropriate power supply terminals. Ensure all connections are tight and insulated to prevent short circuits. Observe local electrical codes and standards.
- Test System:** Once installed, restore power to the system and carefully test the solenoid coil's operation. Verify that it energizes and de-energizes correctly, controlling the flow as intended.

Note: This coil is designed for specific voltage ratings. Using an incorrect voltage will damage the coil and may pose a safety hazard.

OPERATING PRINCIPLES

The Aoleaby MKC-1 is a normally closed (NC) 2-way solenoid coil. This means that when the coil is de-energized (no electrical current flowing through it), the valve it is attached to remains in a closed position, preventing the flow of media (air, water, or oil).
When the appropriate AC voltage is applied to the coil, it creates an electromagnetic field. This field pulls a ferromagnetic plunger or core within the coil, which in turn opens the valve. This allows the media to flow through the valve. When the power supply is removed, the electromagnetic field collapses, and a spring typically returns the plunger to its original position, closing the valve and stopping the flow.

MAINTENANCE

Regular maintenance helps ensure the longevity and reliable operation of your solenoid coil. While the MKC-1 coil

itself requires minimal maintenance, consider the following:

- **Keep Clean:** Periodically inspect the coil for any accumulation of dust, dirt, or debris. Clean the exterior with a dry, soft cloth. Avoid using harsh chemicals or abrasive materials.
- **Check Connections:** Ensure electrical connections remain secure and free from corrosion. Loose connections can lead to overheating or intermittent operation.
- **Inspect for Damage:** Visually inspect the coil for any signs of physical damage, such as cracks in the casing or insulation, or discoloration due to overheating.
- **Environmental Conditions:** Ensure the coil operates within its specified temperature and environmental limits to prevent premature wear.
- **Valve Body Maintenance:** The performance of the coil is dependent on the valve body it controls. Follow the maintenance guidelines for the specific valve to which the coil is attached.

TROUBLESHOOTING

If you experience issues with your Aoleaby MKC-1 AC Solenoid Coil, refer to the following table for common problems and potential solutions:

Problem	Possible Cause	Solution
Coil does not energize (valve does not open)	No power supply; Incorrect voltage; Loose electrical connections; Damaged coil.	Check power supply and circuit breaker; Verify correct voltage matches coil rating; Tighten connections; Replace coil if damaged.
Coil overheats	Incorrect voltage (overvoltage); Continuous duty cycle exceeding rating; Environmental temperature too high.	Verify correct voltage; Ensure coil is rated for continuous duty if required; Improve ventilation or reduce ambient temperature.
Valve does not close completely	Debris in valve; Worn valve components; Coil not fully de-energizing.	Clean valve internals; Inspect and replace worn valve parts; Check for residual voltage or faulty wiring.
Audible hum or buzzing from coil	Normal operation for AC coils; Loose coil mounting; Incorrect voltage.	A slight hum is normal for AC coils. Ensure coil is securely mounted; Verify correct voltage.

If the problem persists after attempting these solutions, contact a qualified technician or the manufacturer for further assistance.

WARRANTY AND SUPPORT

Information regarding specific warranty terms for the Aoleaby MKC-1 AC Solenoid Coil was not provided in the product details. Please refer to your purchase documentation or contact the seller/manufacturer directly for warranty details and support inquiries.

For technical assistance or questions not covered in this manual, please reach out to Aoleaby customer support through their official channels.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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