EVURU 2W-25B EPDM

EVURU 2/2 DN25 SS Electric Water Valve Instruction Manual

Model: 2W-25B EPDM

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your EVURU 2/2 DN25 Stainless Steel Electric Water Valve. This valve is a normally closed, direct-acting solenoid valve designed for controlling the flow of water, gas, or liquid in various applications.

Please read this manual thoroughly before installation and operation to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in property damage, serious injury, or death.

- Always disconnect power before installing, servicing, or cleaning the valve.
- Ensure that the voltage supply matches the valve's specified voltage (e.g., AC220V, DC12V). Incorrect voltage can damage the valve or cause electrical hazards.
- Installation should be performed by qualified personnel in accordance with local electrical and plumbing codes.
- Do not exceed the maximum working pressure specified for the valve.
- Ensure the media (water, gas, liquid) and its temperature are within the valve's specified limits.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Avoid exposing the valve to corrosive environments or extreme temperatures outside its operating range.

3. Product Overview

The EVURU 2/2 DN25 SS Electric Water Valve is a robust solenoid valve constructed from Stainless Steel

304, designed for reliable flow control. It features a 1-inch pipe size (DN25) and is available with BSP or NPT threads. The valve operates as normally closed, meaning it remains closed when de-energized and opens when energized.

Figure 1: Assembled EVURU 2/2 DN25 SS Electric Water Valve. This image shows the complete valve unit, including the stainless steel body, the black solenoid coil, and the red electrical wires.

4. Setup and Installation

4.1 Pre-Installation Checks

- Verify that the valve specifications (voltage, pressure, media, temperature) match your application requirements.
- Inspect the valve for any visible damage from shipping.
- Ensure the piping system is clean and free of debris that could obstruct valve operation.

4.2 Mechanical Installation

1. Turn off the main power supply and shut off the fluid flow to the installation area.
2. Identify the inlet and outlet ports on the valve body. Flow direction is typically indicated by an arrow on the valve body.

3. Apply appropriate thread sealant (e.g., PTFE tape or pipe dope) to the pipe threads.
4. Thread the valve onto the pipes, ensuring a tight, leak-free connection. Do not overtighten.
5. Mount the valve in a position that allows for easy access for maintenance and inspection. The solenoid coil should ideally be in an upright position to prevent accumulation of debris and ensure proper operation.

4.3 Electrical Connection

1. Ensure the power supply is disconnected.
2. Connect the valve's electrical wires to the appropriate power source. Refer to the voltage specified on the solenoid coil.
3. Ensure all electrical connections are secure and properly insulated to prevent short circuits or electrical hazards.
4. If applicable, connect the ground wire according to local electrical codes.

Figure 2: Disassembled EVURU 2/2 DN25 SS Electric Water Valve components. This image displays the main stainless steel valve body, the separate solenoid coil, and the retaining nut, illustrating how the coil attaches to the valve stem.

5. Operating Instructions

The EVURU 2/2 DN25 SS Electric Water Valve is a normally closed (N/C) valve, meaning it is closed by

default when no power is applied to the solenoid coil.

1. **To Open the Valve:** Apply the specified electrical voltage to the solenoid coil. The coil will energize, lifting the plunger and opening the valve, allowing fluid to flow.
2. **To Close the Valve:** Disconnect the electrical voltage from the solenoid coil. The coil will de-energize, and the plunger will return to its closed position, stopping the fluid flow.

Ensure that the system pressure and fluid temperature remain within the valve's specified operating limits during operation.

6. Maintenance

Regular maintenance helps ensure the longevity and reliable operation of your valve.

- **Periodic Inspection:** Regularly check for any signs of leaks around the valve body and connections. Inspect the electrical wiring for damage or loose connections.
- **Cleaning:** If the valve is operating in an environment with particulate matter, periodic cleaning of the internal components may be necessary. Always disconnect power and depressurize the system before disassembling the valve.
- **Seal Replacement:** Over time, the EPDM seals may wear out. If leaks occur or the valve fails to seal properly, the seals may need to be replaced. Refer to Figure 2 for component identification.
- **Coil Inspection:** Ensure the solenoid coil is free from excessive heat, moisture, or physical damage.

Note: For complex repairs or internal component replacement, it is recommended to consult a qualified technician or the manufacturer.

7. Troubleshooting

Problem	Possible Cause	Solution
Valve does not open when energized.	• No power to the coil. • Incorrect voltage. • Coil damaged or burnt out. • Debris obstructing plunger. • Excessive pressure differential.	• Check power supply and connections. • Verify voltage matches valve specification. • Replace coil. • Disassemble and clean valve internals. • Ensure operating pressure is within limits.
Valve does not close when de-energized.	• Debris lodged in valve seat. • Damaged or worn seal. • Spring failure.	• Disassemble and clean valve internals. • Replace seals. • Replace valve or internal components.
Leakage from valve body or connections.	• Loose pipe connections. • Damaged or worn seals. • Cracked valve body.	• Tighten connections, reapply thread sealant. • Replace seals. • Replace valve.
Coil overheating.	• Incorrect voltage. • Continuous operation beyond duty cycle (if applicable). • Internal short circuit.	• Verify voltage. • Ensure valve is suitable for continuous duty or adjust operation. • Replace coil.

8. Specifications

Model	2W-25B EPDM
Pipe Size	1 inch (DN25)
Thread Type	BSP, NPT
Media	Water, Gas, Liquid
Type	Normally Closed (N/C), Direct Acting
Working Pressure (Water, Air)	0-10 bar
Working Pressure (Oil)	0-7 bar
Voltage Options	AC240V, AC220V, AC120V, AC110V, AC24V, DC24V, DC12V (±10% tolerance)
Material	Stainless Steel 304
Seal Material	EPDM
Medium Temperature (EPDM)	-5 to 120 °C (23 to 248 °F)
Item Weight	1 Grams (Note: This value seems unusually low and may be a placeholder. Refer to actual product for accurate weight.)

9. Warranty Information

Specific warranty details for the EVURU 2/2 DN25 SS Electric Water Valve are not provided in this manual. For information regarding product warranty, please refer to the purchase documentation, contact your retailer, or visit the official EVURU website.

10. Customer Support

If you encounter any issues or have questions not covered in this manual, please contact your product supplier or the manufacturer's customer support. When contacting support, please have your product model number (2W-25B EPDM) and purchase details readily available.