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› Neo-Pure Electronic Shut-off Solenoid Valve 24VAC - 1/4" QC Instruction Manual

Neo-Pure GCSLXNPAD5-24VAC

Neo-Pure Electronic Shut-off Solenoid Valve 24VAC - 1/4" QC

Model: GCSLXNPAD5-24VAC

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Neo-Pure Electronic Shut-off Solenoid Valve. This valve is designed to automatically control the feed water supply in a Reverse Osmosis (RO) system, ensuring efficient water conservation.

2. SAFETY INFORMATION

- Always disconnect power before installing or servicing the valve.
- Ensure all electrical connections comply with local codes and regulations.
- Do not exceed the specified voltage (24VAC) or pressure ratings.
- This valve is intended for use with water. Do not use with other fluids unless explicitly approved.
- Keep out of reach of children.

3. PRODUCT OVERVIEW

The Neo-Pure Electronic Shut-off Solenoid Valve is a critical component for automated RO systems. It features a compact design and hermetically protected electronics for long-lasting performance.

Key Features:

- Conserves water by automatically shutting off feed.
- Positive shut-off mechanism.
- Compact and durable plastic valve body.
- Low power consumption and cool running operation.
- Hermetically protected electronics for extended lifespan.
- Open wiring for flexible connection.



Figure 3.1: Front view of the Neo-Pure Electronic Shut-off Solenoid Valve, showing the blue coil, black valve body, and red and blue wiring.



Figure 3.2: Side view of the Neo-Pure Electronic Shut-off Solenoid Valve, highlighting the quick connect ports and the wiring harness connection point.

4. SETUP AND INSTALLATION

1. **Preparation:** Ensure the main water supply to the RO system is turned off and the system is depressurized.
2. **Fittings:** This valve requires 1/4" Quick Connect (QC) fittings, which are not included. Ensure you have the appropriate fittings for your system.
3. **Placement:** Install the solenoid valve on the feed water line to the RO system, typically before the booster pump or membrane housing. Ensure the flow direction arrow on the valve body matches the water flow.

4. **Connections:** Connect the 1/4" tubing to the quick connect ports on the valve. Push the tubing firmly into the port until it seats.
5. **Electrical Wiring:** The valve operates on 24VAC. A wire harness is required for connection to a one-plug power source. Connect the valve's open wiring to the appropriate terminals of your RO system's control circuit, ensuring correct polarity if specified by your system.
6. **Leak Check:** Slowly turn on the main water supply and check all connections for leaks. Tighten fittings as necessary.

5. OPERATING INSTRUCTIONS

The Neo-Pure Electronic Shut-off Solenoid Valve operates automatically in conjunction with your RO system's tank and pump pressure switch. Its primary function is to conserve water by preventing continuous flow once the RO storage tank is full.

- When the RO tank is not full, the pump pressure switch will activate, signaling the solenoid valve to open and allow feed water to flow to the RO membrane.
- As the RO tank fills, the back pressure increases. Once the tank reaches its full pressure, the pump pressure switch will deactivate, which in turn signals the solenoid valve to close.
- When the solenoid valve closes, it positively shuts off the feed water supply, stopping the RO system from producing more water and preventing wastewater from flowing to the drain.
- The valve will automatically reopen when water is drawn from the RO tank, causing the tank pressure to drop and reactivating the pump pressure switch.

6. MAINTENANCE

The Neo-Pure Solenoid Valve is designed for minimal maintenance. However, periodic checks can ensure optimal performance:

- **Visual Inspection:** Periodically inspect the valve and connections for any signs of leaks, corrosion, or physical damage.
- **Electrical Connections:** Ensure electrical wiring connections remain secure and free from moisture.
- **Functionality Check:** Observe the RO system's operation to confirm the valve is opening and closing correctly in response to tank pressure changes.

7. TROUBLESHOOTING

If you experience issues with your solenoid valve, consider the following:

- **Valve Not Opening:**
 - Check for proper 24VAC power supply to the valve.
 - Verify the pump pressure switch is functioning correctly and signaling the valve to open.
 - Ensure there are no blockages in the feed water line.
- **Valve Not Closing:**
 - Confirm the RO tank is reaching full pressure and the pump pressure switch is signaling the valve to close.
 - Inspect the valve for any debris that might be preventing a full shut-off.
 - Check for consistent 24VAC power; a continuous supply will keep the valve open.
- **Leaks:**
 - Tighten all quick connect fittings.
 - Inspect tubing for cracks or improper cuts.

If issues persist, contact Neo-Pure customer support or a qualified technician.

8. SPECIFICATIONS

Specification	Detail
Model Number	GCSLXNPAD5-24VAC
Brand	Neo-Pure
Voltage	24VAC
Thread Size / Connection	1/4" Quick Connect (QC)
Material	Plastic
Exterior Finish	Plastic
Inlet Connection Type	Compression
Number of Ports	2
Connector Type	Open Wiring
Valve Type	Solenoid Valve
UPC	352584332122

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Neo-Pure Electronic Shut-off Solenoid Valve, please refer to the documentation provided with your complete RO system or contact Neo-Pure customer service directly. Keep your purchase receipt for warranty claims.

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.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question