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› Symmons SF-240 Ultra-Sense Solenoid Valve Instruction Manual

Symmons SF-240

Symmons SF-240 Ultra-Sense Solenoid Valve Instruction Manual

Model: SF-240 | Brand: Symmons

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Symmons SF-240 Ultra-Sense Solenoid Valve. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product. The Symmons SF-240 is a genuine Symmons repair part designed for use with Ultra-Sense S-6080 variants from 2011 to date.

PRODUCT OVERVIEW

The Symmons SF-240 Ultra-Sense Solenoid Valve is a critical component for controlling water flow in compatible Symmons Ultra-Sense systems. It is constructed from durable brass and plastic materials, ensuring reliable performance.

Key Features:

- Genuine Symmons repair part.
- Solenoid mechanism for precise flow control.
- Designed for use with Ultra-Sense S-6080 variants (2011 to present).
- Durable brass and plastic construction.

Components:



Figure 1: Symmons SF-240 Solenoid Valve and accompanying wrench. The valve features a black body with a white connector and red/black wires, designed for quick connection.



Figure 2: A closer view of the SF-240 solenoid valve, highlighting its quick-connect inlet and outlet, and the included specialized wrench for installation.



Figure 3: Another perspective of the SF-240 solenoid valve and its wrench, showing the compact design suitable for integration into existing systems.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your Symmons SF-240 Solenoid Valve. If you are unsure about any step, it is recommended to consult a qualified professional.

Safety Precautions:

- Always turn off the main water supply before beginning any installation or repair work.
- Depressurize the water lines by opening a faucet downstream.
- Ensure all electrical connections are disconnected if the valve is part of an electrically controlled system.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.

Tools Required:

- Included specialized wrench (as shown in Figure 1).
- Adjustable wrench (if needed for existing plumbing).
- Teflon tape or pipe sealant (for threaded connections, if applicable).

Installation Steps:

1. **Prepare the Area:** Turn off the water supply and drain the lines. Clear the area around the existing valve or installation point.
2. **Remove Old Valve (if applicable):** Carefully disconnect the existing solenoid valve. Be prepared for residual water.
3. **Inspect Connections:** Ensure the inlet and outlet connections are clean and free of debris. The SF-240 uses quick-connect type fittings.
4. **Install New Valve:** Align the Symmons SF-240 Solenoid Valve with the quick-connect fittings. Push firmly until it clicks into place, ensuring a secure and watertight seal. Use the provided wrench for any necessary tightening, if applicable to the specific connection type.

5. **Connect Electrical (if applicable):** If your system requires electrical connection, ensure the red and black wires are connected correctly to the control unit. Refer to your Ultra-Sense S-6080 system's manual for specific wiring diagrams.
6. **Test for Leaks:** Slowly turn the main water supply back on. Carefully inspect all connections for any signs of leaks. Tighten connections as needed.
7. **Verify Operation:** Activate your Ultra-Sense system to confirm the solenoid valve opens and closes correctly, allowing or stopping water flow as intended.

OPERATING INSTRUCTIONS

The Symmons SF-240 Ultra-Sense Solenoid Valve operates as an integral part of the Symmons Ultra-Sense S-6080 system. Its function is to control the flow of water based on signals received from the Ultra-Sense control unit.

- The solenoid valve will open when it receives an electrical signal from the Ultra-Sense control unit, allowing water to flow through.
- The valve will close when the electrical signal is removed, stopping the water flow.
- Refer to your specific Symmons Ultra-Sense S-6080 system manual for details on how to program and operate the control unit that governs this solenoid valve.

MAINTENANCE

The Symmons SF-240 Solenoid Valve is designed for durability and requires minimal maintenance. Regular checks can help ensure its long-term performance.

- **Periodic Inspection:** Annually inspect the valve and its connections for any signs of leaks, corrosion, or wear.
- **Cleaning:** If the valve is exposed to hard water or debris, mineral deposits may accumulate. If flow issues arise, the valve may need to be removed and cleaned. Consult a professional if you are unsure how to perform this.
- **Connection Integrity:** Ensure all quick-connect fittings remain secure.

TROUBLESHOOTING

If you encounter issues with your Symmons SF-240 Solenoid Valve, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No water flow or intermittent flow.	No power to the solenoid. Clogged valve or system. Faulty solenoid. Control unit malfunction.	Check electrical connections and power supply to the control unit. Inspect for debris in the valve or lines. Clean if necessary. Test the solenoid for continuity. Replace if faulty. Refer to your Ultra-Sense S-6080 system manual for control unit troubleshooting.
Valve leaks at connections.	Loose quick-connect fittings. Damaged O-rings or seals.	Ensure quick-connect fittings are fully engaged and secure. Inspect and replace any damaged O-rings or seals.

Problem	Possible Cause	Solution
Valve does not close completely.	Debris lodged in the valve. Weak or faulty solenoid.	Turn off water, remove valve, and inspect for debris. Clean thoroughly. Test the solenoid. Replace if it's not strong enough to close the valve.

If problems persist after attempting these solutions, contact Symmons customer support or a qualified plumber.

SPECIFICATIONS

Attribute	Detail
Model Number	SF-240
Brand	Symmons
Material	Brass, Plastic
Color	Black
Item Dimensions (L x W x H)	3 x 1 x 1 inches
Item Weight	0.01 ounces
Inlet Connection Size	1 Inches
Inlet Connection Type	Quick Connect
Outlet Connection Type	Quick Connect
Number of Ports	2
Valve Type	Solenoid Valve
Specification Met	ULC
UPC	671256378023

WARRANTY AND SUPPORT

Warranty Information:

The Symmons SF-240 Ultra-Sense Solenoid Valve comes with a **Limited Lifetime Warranty** for the consumer and a **5-Year Commercial Warranty**. This warranty covers defects in material and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please contact Symmons customer support. You can find contact information on the official Symmons website or through your product's original packaging.

Visit the official Symmons store for more information: [Symmons Store on Amazon](#)

