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› Weathermatic S20P Light Duty Solenoid Instruction Manual

Weathermatic S20P

Weathermatic S20P Light Duty Solenoid

Instruction Manual

PRODUCT OVERVIEW

The Weathermatic S20P is a light-duty solenoid designed for use with Weathermatic remote control valves in irrigation systems. This component is crucial for controlling the flow of water to specific zones, ensuring efficient and automated watering. It includes the cylinder-shaped piston necessary for its function.



Image: A close-up view of the Weathermatic S20P light duty solenoid, showing its cylindrical shape and wire connections.

SETUP AND INSTALLATION

Follow these steps for proper installation of the Weathermatic S20P solenoid:

1. **Turn Off Water Supply:** Before beginning any work, locate and turn off the main water supply to the irrigation system to prevent water leakage.
 2. **Disconnect Wiring:** Carefully disconnect the electrical wires from the old solenoid. Note the polarity if applicable, though most irrigation solenoids are not polarity sensitive.
 3. **Remove Old Solenoid:** Unscrew the old solenoid from the valve body. Turn counter-clockwise until it is completely detached.
 4. **Install New Solenoid:** Screw the new Weathermatic S20P solenoid into the valve body by turning clockwise. Ensure it threads smoothly. Do not overtighten, as this can damage the valve or solenoid. If you encounter difficulty threading or if the solenoid 'skips', inspect the rubber gasket on the solenoid's threads. For some older valve models, applying thread tape may assist in achieving a secure, leak-free seal.
 5. **Reconnect Wiring:** Reconnect the electrical wires to the new solenoid. Ensure connections are secure and protected from moisture.
 6. **Restore Water Supply:** Slowly turn the main water supply back on and check for any leaks around the newly installed solenoid.
 7. **Test System:** Activate the irrigation zone associated with the valve to confirm proper operation.
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OPERATING INSTRUCTIONS

The Weathermatic S20P solenoid operates by receiving an electrical signal from your irrigation controller. When the controller sends power to the solenoid, an electromagnetic field is created, which lifts the piston inside the valve. This action opens the valve, allowing water to flow to the designated irrigation zone. When the electrical signal is removed, the solenoid de-energizes, and the piston returns to its original position, closing the valve and stopping water flow.

MAINTENANCE

Regular maintenance helps ensure the longevity and reliable operation of your solenoid:

- **Inspect for Leaks:** Periodically check the solenoid and valve connections for any signs of water leaks. Address leaks promptly to prevent water waste and potential damage.
 - **Check Electrical Connections:** Ensure that the wiring connections to the solenoid are clean, tight, and free from corrosion. Loose or corroded connections can lead to intermittent operation or failure.
 - **Keep Area Clear:** Ensure the area around the valve and solenoid is free from debris, soil, or plant growth that could interfere with access or operation.
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TROUBLESHOOTING

If your irrigation system is not functioning as expected, consider the following troubleshooting steps:

- **Valve Not Opening:**

- Verify that the irrigation controller is programmed correctly and sending power to the specific zone.
 - Check the electrical connections at the solenoid for looseness or corrosion.
 - Measure the resistance of the solenoid using a multimeter. A healthy solenoid typically shows a resistance of approximately 30-40 ohms. A reading of very low ohms (e.g., 0-10 ohms) or infinite resistance indicates a faulty solenoid.
- **Valve Not Closing / Constant Leak:**
 - Ensure the solenoid is securely tightened into the valve body.
 - Check for debris or sediment inside the valve that might be preventing it from closing completely.
 - If the solenoid is new, re-check the installation steps, particularly regarding the gasket and threading.
 - **Electrical Short / Circuit Breaker Tripping:**
 - If your irrigation system's circuit breaker trips, it may indicate a short circuit in the wiring or the solenoid itself.
 - Inspect all wiring for cuts, exposed copper, or damage.
 - Disconnect the solenoid and test its resistance. A very low resistance reading (close to 0 ohms) can indicate an internal short.

SPECIFICATIONS

Brand	Weathermatic
Model Number	S20P (Manufacturer Part Number: 4316361963)
Material	Stainless Steel
Item Weight	4 ounces
Mounting Type	Pipe Mount
Shape	Cylindrical

WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please contact Weathermatic directly through their official website or customer service channels. Keep your purchase receipt for warranty claims.

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