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Irritrol 2713

Irritrol 2713 Anti-Siphon Valve Instruction Manual

Model: 2713

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Irritrol 2713 Anti-Siphon Valve. The Irritrol 2700 Series valves are designed for residential irrigation applications, offering reliable performance and ease of use. Key features include anti-siphon capability, flow control for precise water adjustment, manual shutoff, and a built-in atmospheric vacuum breaker to prevent back-siphonage. These valves are suitable for a wide range of flow and pressure conditions.

SAFETY INFORMATION

- Always turn off the main water supply before installing or servicing the valve.
- Ensure all electrical connections are made by a qualified professional and comply with local codes.
- Do not operate the valve outside its specified pressure and flow ranges.
- Protect the valve from freezing temperatures to prevent damage.
- Keep children and pets away from irrigation components during operation.

COMPONENTS OVERVIEW

The Irritrol 2713 Anti-Siphon Valve consists of several key components:

- **Solenoid:** The electrical component that opens and closes the valve when energized by an irrigation controller.
- **Threaded Bonnet:** The top section of the valve body, secured by threads, allowing access to internal components.
- **Flow Control:** A knob or mechanism that allows for manual adjustment of the water flow rate through the valve.
- **Atmospheric Vacuum Breaker (AVB):** An integrated device designed to prevent back-siphonage of contaminated water into the potable water supply.
- **Internal and External Bleed (Flush Mode):** Mechanisms for manual operation and flushing the valve.
- **Metering System:** Internal components, such as a stainless-steel metering system (DPR models) or a patented "floating metering system" (APR models), ensuring consistent valve operation.



This image displays the Irritrol 2713 Anti-Siphon Valve, a gray plastic unit designed for irrigation systems. It features a solenoid on the left for electrical control, a threaded bonnet, and a flow control knob. The valve body includes a 1-inch inlet and outlet, with an integrated atmospheric vacuum breaker on the right side.

SETUP AND INSTALLATION

Pre-Installation Checks

- Verify that the valve size (1-inch) matches your irrigation system's pipe size.
- Ensure the installation location is above the highest sprinkler head in the zone to maintain anti-siphon protection.
- Confirm that the water pressure and flow rate are within the valve's specifications (10-150 psi, 0.25-30 GPM).

Installation Steps

1. **Turn off Water Supply:** Locate and close the main water shutoff valve to the irrigation system.
2. **Prepare Piping:** Cut and prepare the irrigation pipes for the valve installation. Ensure clean cuts and remove any burrs.
3. **Apply Thread Sealant:** Apply appropriate thread sealant (e.g., PTFE tape or pipe dope) to the male threads of the pipes that will connect to the valve's inlet and outlet.
4. **Install Valve:** Thread the valve onto the pipes, ensuring the flow arrow on the valve body points in the direction of water flow towards the sprinkler zone. Hand-tighten, then use a wrench for an additional 1 to 2 turns, being careful not to overtighten.
5. **Electrical Wiring:** Connect the two wires from the valve's solenoid to the corresponding wires from your irrigation controller. Typically, one wire connects to the common wire and the other to the zone wire. Use waterproof connectors for all electrical connections.
6. **Test Connections:** Slowly turn on the main water supply and check for leaks at all connections.

OPERATING INSTRUCTIONS

Manual Operation

- **Internal Bleed:** To manually open the valve, turn the solenoid counter-clockwise approximately one-half turn. Water will flow through the valve. To close, tighten the solenoid clockwise.
- **External Bleed (Flush Mode):** Some models feature an external bleed screw. Turning this screw will manually open the valve and allow flushing of debris. Close the screw to return to automatic operation.

Flow Control Adjustment

The flow control knob allows you to adjust the amount of water flowing through the valve, which can help prevent misting at sprinkler heads or reduce water hammer. To adjust:

1. Activate the zone controlled by the valve (either manually or via the controller).
2. Turn the flow control knob clockwise to decrease flow or counter-clockwise to increase flow.
3. Adjust until the desired flow rate and sprinkler performance are achieved. Do not close the flow control completely while the valve is open, as this can cause excessive pressure.

MAINTENANCE

- **Periodic Inspection:** Regularly inspect the valve for any signs of leaks, cracks, or damage.
- **Cleaning:** If the valve is not operating correctly, debris may be obstructing the diaphragm or solenoid. Turn off the water, unscrew the bonnet, and carefully clean internal components.
- **Winterization:** In regions subject to freezing temperatures, it is crucial to properly winterize your irrigation system, including the anti-siphon valve. This typically involves shutting off the water supply, draining the system, and using compressed air to blow out any remaining water. Consult a local irrigation professional for specific winterization procedures in your area.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Valve does not open.	No power to solenoid; clogged diaphragm; faulty solenoid.	Check wiring and controller; clean diaphragm; replace solenoid.
Valve does not close completely (constant drip).	Debris in valve; worn diaphragm; flow control too open.	Clean internal components; replace diaphragm; adjust flow control.
Water leaks from bonnet or connections.	Loose bonnet; damaged O-ring/gasket; improper thread sealant.	Tighten bonnet; replace O-ring/gasket; reapply thread sealant.
Anti-siphon device leaks.	Low pressure; debris; damaged seal.	Ensure adequate system pressure; clean or replace anti-siphon components.

SPECIFICATIONS

Model: Irritrol 2713 (2713DPR)

Connection Size: 1 Inch (Inlet and Outlet)

Connection Type: Threaded Inlet, NPT Outlet

Material: Plastic (Valve Body), Stainless Steel (Metering System)

Pressure Range: 10 - 150 psi

Flow Range: 0.25 - 30 GPM

Dimensions (L x W x H): 6 x 6.88 x 3 inches

Item Weight: 1.2 pounds

Certifications: ASSE, NSF, UPC

Number of Ports: 2

WARRANTY AND SUPPORT

Irritrol products are manufactured to high-quality standards. For specific warranty details and technical support, please refer to the official Irritrol website or contact their customer service department. Keep your purchase receipt for warranty claims.

For further assistance, visit the [Irritrol website](#).