



[Manuals.plus](#) /

› [Irritrol](#) /

› Irritrol 2711DPR Electric Anti-Siphon Valve 3/4" Instruction Manual

Irritrol 2711DPR

Irritrol 2711DPR Electric Anti-Siphon Valve 3/4" Instruction Manual

Model: 2711DPR

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Irritrol 2711DPR Electric Anti-Siphon Valve. Please read these instructions carefully before beginning installation or operation to ensure safe and efficient use of the product.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect power to the irrigation controller before performing any electrical work on the valve.
- Ensure all electrical connections are waterproof and comply with local electrical codes.
- Do not operate the valve at pressures exceeding 150 psi (10.3 bar).
- Do not operate the valve at temperatures below freezing without proper winterization.
- Always wear appropriate personal protective equipment (PPE) when handling tools or working with plumbing.
- Consult local plumbing codes for anti-siphon valve installation requirements.

3. PRODUCT OVERVIEW

The Irritrol 2711DPR is a 3/4-inch electric anti-siphon valve designed for residential irrigation systems. It features a threaded bonnet for easy access and maintenance, an anti-siphon mechanism to prevent backflow, and an integrated atmospheric vacuum breaker. The valve also includes flow control for precise water adjustment and a manual shutoff option.



Figure 1: Irritrol 2711DPR Electric Anti-Siphon Valve. This image shows the complete valve assembly, highlighting its compact design and threaded connections.

Key Features:

- **Anti-Siphon Capability:** Prevents contaminated water from flowing back into the main water supply.
- **Flow Control:** Allows for precise adjustment of water flow to individual zones.
- **Manual Shutoff:** Enables manual operation for testing or maintenance.
- **Atmospheric Vacuum Breaker:** Built-in mechanism to eliminate back siphonage.
- **Durable Construction:** Made from high-quality plastic for longevity.

4. SETUP AND INSTALLATION

Proper installation is crucial for the valve's performance and longevity. Follow these general steps:

1. **Location:** Install the anti-siphon valve at least 6 inches (15 cm) above the highest sprinkler head in the zone it controls. Ensure it is accessible for maintenance.
2. **Pipe Preparation:** Ensure the supply and lateral lines are clean and free of debris. Use appropriate pipe thread sealant

(e.g., PTFE tape) on all threaded connections.

3. **Threaded Connections:** Carefully thread the valve onto the supply line and connect the lateral line to the outlet. Hand-tighten, then use a wrench for an additional 1/2 to 1 turn. Do not overtighten.
4. **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.
5. **System Flush:** Before fully installing the solenoid or diaphragm, briefly flush the main line to remove any debris that could clog the valve.
6. **Leak Check:** After installation, slowly turn on the main water supply and check for leaks at all connections.

5. OPERATING INSTRUCTIONS

Automatic Operation:

The Irritrol 2711DPR valve operates automatically when connected to an irrigation controller. The controller sends an electrical signal to the solenoid, which opens or closes the valve according to the programmed schedule.

Manual Operation:

- **Manual On/Off:** To manually open the valve, turn the solenoid counter-clockwise approximately 1/4 to 1/2 turn. To close, turn it clockwise until snug.
- **Flow Control:** The flow control knob (located on top of the valve) allows you to adjust the amount of water flowing through the valve. Turn clockwise to decrease flow, and counter-clockwise to increase flow. For maximum flow, turn fully counter-clockwise.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your valve.

- **Periodic Inspection:** Periodically inspect the valve for any signs of leaks, cracks, or damage. Check electrical connections for corrosion.
- **Cleaning:** If the valve fails to open or close properly, debris may be lodged in the diaphragm or solenoid. To clean, turn off the main water supply, unscrew the bonnet, and carefully remove the diaphragm assembly. Rinse all components with clean water and remove any foreign particles. Reassemble carefully, ensuring the diaphragm is seated correctly.
- **Winterization:** In freezing climates, it is essential to properly winterize your irrigation system, including the anti-siphon valve, to prevent freeze damage. This typically involves draining water from the system or using an air compressor to blow out the lines.
- **Part Replacement:** Over time, internal components such as the diaphragm or solenoid may wear out. Replacement parts are available from authorized dealers.

7. TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Valve does not open	No power to solenoid; clogged diaphragm; faulty solenoid.	Check controller wiring and power; clean diaphragm; test/replace solenoid.
Valve does not close	Debris in valve; damaged diaphragm; low pressure.	Clean valve internals; replace diaphragm; check water pressure.

Problem	Possible Cause	Solution
Water leaks from bonnet	Loose bonnet; damaged O-ring or diaphragm.	Tighten bonnet; inspect and replace O-ring or diaphragm.
Water leaks from anti-siphon port	Continuous low pressure; debris in vacuum breaker.	Ensure adequate system pressure; clean vacuum breaker components.

8. SPECIFICATIONS

Feature	Specification
Model Number	2711DPR
Inlet/Outlet Connection Size	3/4 inches (0.75 inches)
Inlet/Outlet Connection Type	Threaded (NPT)
Material	Plastic
Item Dimensions (L x W x H)	5.5 x 6.25 x 3 inches
Item Weight	16 ounces (1 lb)
Number of Ports	2
Flow Range	0.25 to 30 GPM (Gallons Per Minute)
Pressure Range	10 to 150 psi (Pounds per Square Inch)
Included Components	Anti-siphon valve
Certifications	ASSE, NSF (as per product specifications)

9. WARRANTY AND SUPPORT

Irritrol products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your purchase or visit the official Irritrol website. For technical support, replacement parts, or further assistance, please contact Irritrol customer service or an authorized dealer.