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> Orbit 57029P 3/4 inch Automatic Converter Sprinkler Valve with Flow Control Instruction Manual

Orbit 57029P

Orbit 57029P 3/4" Automatic Converter Sprinkler Valve with Flow Control (100-series)

Model: 57029P | Brand: Orbit

INTRODUCTION

The Orbit 57029P 3/4" Automatic Converter Sprinkler Valve is designed to transform an existing manual sprinkler valve into a fully automatic system. This converter valve is compatible with the threads of most manual valves, including manual anti-siphon valves. It features durable brass threads for secure installation and long-term reliability. The valve includes a 24 VAC solenoid, a manual actuation lever, a bleed screw, and flow control capabilities, allowing for precise water regulation in your irrigation system. It is intended for outdoor irrigation use with cold water only.



Image: The Orbit 57029P Automatic Converter Sprinkler Valve, showing its green plastic body, black solenoid, and brass threaded connection.

FEATURES

- **Automatic Conversion:** Transforms manual sprinkler valves into automatic ones.
- **Broad Compatibility:** Fits threads of most manual valves, including manual anti-siphon valves.
- **Durable Construction:** Features brass threads for reliable installation and high durability, combined with robust plastic components.
- **24 VAC Solenoid:** Enables automatic operation when connected to a compatible irrigation controller.
- **Manual Actuation Lever:** Allows for manual operation of the valve.
- **Bleed Screw:** For manual release of pressure and flushing the system.
- **Flow Control:** Provides precise adjustment of water flow.
- **Controller Compatibility:** Works with all major brands of 24 VAC irrigation controllers.

SETUP AND INSTALLATION

This section provides instructions for installing your Orbit 57029P Automatic Converter Sprinkler Valve. Ensure water supply is turned off before beginning installation.

1. **Prepare the Existing Valve:** Locate the manual valve you wish to convert. Turn off the main water supply to the irrigation system. Carefully remove the existing manual control mechanism from the valve body.
2. **Thread the Converter Valve:** The Orbit 57029P converter valve is designed to fit the threads of most manual valve bodies. Thread the new converter valve into the existing valve body. Ensure it is hand-tightened securely, then use a wrench for a final quarter-turn to ensure a watertight seal without overtightening.
3. **Connect Wiring:** Connect the two wires from the 24 VAC solenoid on the converter valve to your 24 VAC irrigation controller. Typically, one wire connects to the common terminal and the other to the zone terminal for that specific valve. Refer to your irrigation controller's manual for specific wiring diagrams.
4. **Alternative Power (if no existing wire):** If no existing sprinkler wire is available, an Orbit battery-powered controller can be used to power up to four valves in a single location. Follow the instructions provided with the battery-powered controller for proper connection.
5. **Water Supply:** Once the valve is securely installed and wired, slowly turn the main water supply back on. Check for any leaks around the connections.
6. **Initial Test:** Manually actuate the valve using the manual actuation lever or initiate a test cycle from your irrigation controller to ensure proper operation.

Important Note: This product is for outdoor irrigation use with cold water only. Ensure that the existing valve housing allows for the removal of the backflow cover and valve components for proper installation of this converter. If these parts cannot be removed, this converter may not be suitable for your specific valve.



Image: A person's hand installing the Orbit 57029P converter valve into an existing sprinkler valve body in a garden bed, surrounded by small rocks and plants.



Image: Two Orbit 57029P automatic converter sprinkler valves installed side-by-side in a garden bed, surrounded by small rocks and plants, demonstrating a multi-zone setup.

OPERATING INSTRUCTIONS

The Orbit 57029P valve operates automatically via your 24 VAC irrigation controller. However, it also provides manual control options:

- **Automatic Operation:** Once connected to a 24 VAC irrigation controller, the valve will open and close according to the schedule programmed into your controller.
- **Manual Actuation:** To manually open the valve, lift or turn the manual actuation lever (often a small black lever or knob on the solenoid). This will allow water to flow regardless of the controller's schedule. To close, return the lever to its original position.
- **Bleed Screw:** The bleed screw allows for manual release of pressure and flushing of the valve. Turning the bleed screw counter-clockwise will slowly open the valve and release water. Turn it clockwise to close. Use this feature for maintenance or to clear debris.
- **Flow Control Adjustment:** The flow control knob (if present on your specific model) allows you to adjust the amount of water flowing through the valve. Turn the knob clockwise to decrease flow and counter-clockwise to increase flow. Adjust as needed for optimal sprinkler performance in that zone.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Orbit 57029P valve.

- **Seasonal Inspection:** Before and after the irrigation season, inspect the valve for any visible damage, leaks, or debris accumulation.
- **Cleaning:** Periodically clean the area around the valve to prevent dirt and debris from interfering with its operation.
- **Diaphragm Check:** Over time, the internal diaphragm may wear out, potentially leading to leaks or improper operation. If issues arise, the diaphragm may need inspection or replacement. Replacement diaphragms are available for purchase.

- **Winterization:** In regions subject to freezing temperatures, ensure proper winterization procedures are followed to prevent damage to the valve and irrigation system. This typically involves draining water from the system.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Valve does not open automatically.	No power to solenoid, faulty wiring, faulty solenoid, controller issue.	Check wiring connections to the controller. Test solenoid for continuity. Verify controller is programmed correctly and functioning.
Valve does not close.	Debris in valve, worn diaphragm, low pressure, faulty solenoid.	Turn off water, disassemble and clean valve internals. Inspect and replace diaphragm if worn. Check system water pressure. Test or replace solenoid.
Water leaking from valve.	Loose connections, damaged O-rings/gaskets, worn diaphragm, cracked housing.	Tighten connections. Inspect and replace O-rings or gaskets. Replace worn diaphragm. If housing is cracked, the valve may need replacement.
Low water flow.	Flow control adjusted too low, debris in valve, low system pressure.	Adjust flow control knob counter-clockwise to increase flow. Clean valve internals. Check main water supply pressure.

SPECIFICATIONS

Model: 57029P

Brand: Orbit

Style: 100-series

Connection Size: 3/4 inch

Material: Plastic, Brass

Color: Green

Item Dimensions (L x W x H): 7.25 x 3.75 x 3 inches

Item Weight: 0.93 Pounds

Power Requirement: 24 VAC

UPC: 046878570290

Intended Use: Outdoor irrigation with cold water only

WARRANTY AND SUPPORT

The Orbit 57029P Automatic Converter Sprinkler Valve comes with a manufacturer's warranty. For specific warranty details, including coverage and duration, please refer to the documentation included with your product or visit the official Orbit website.

For technical assistance, troubleshooting not covered in this manual, or to inquire about replacement parts, please contact Orbit Customer Support:

Website: www.orbitonline.com

Phone: Refer to the Orbit website for regional contact numbers.

When contacting support, please have your product model number (57029P) and purchase information

readily available.