

DIG DM075

DIG DM075 Automatic Valve Assembly for Drip System

Model: DM075

1. INTRODUCTION

The DIG DM075 Automatic Valve Assembly is a complete drip zone unit designed to simplify and automate drip irrigation installations. This assembly integrates essential components to ensure reliable performance and protection for your drip system. It is ideal for automating a drip irrigation zone, filtering particles, and regulating water pressure to optimal levels for micro-irrigation.

2. PRODUCT OVERVIEW

The DM075 assembly combines several critical components into a single, compact unit, ensuring efficient and protected operation of your drip irrigation system.



Image: The DIG DM075 Automatic Valve Assembly, featuring the 24 VAC in-line valve, heavy-duty filter, and pressure regulator, ready for installation.

Key Features:

- **All-purpose, complete unit:** Includes a 3/4" 24 VAC in-line valve, 3/4" heavy-duty filter with 155 mesh screen, 25 PSI preset pressure regulator, and 3/4" FHT swivel adapter with 700 OD.
- **Wide Flow Range:** Operates efficiently at very low flows, from less than one gallon per hour up to twelve gallons per minute.
- **Durable Construction:** Constructed of UV-resistant, durable plastic material designed to withstand adverse outdoor conditions.
- **Versatile Connection:** Can be connected directly to drip tubing or to pipe thread.
- **Compact Design:** Engineered to fit conveniently into smaller valve boxes.

3. SETUP & INSTALLATION

Components Included:

- 3/4" 24 VAC In-Line Valve
- 3/4" Heavy-Duty Filter (155 mesh screen)
- 25 PSI Preset Pressure Regulator
- 3/4" FHT Swivel Adapter with 700 OD

Installation Steps:

1. **Identify Water Source:** Locate the main water supply line where the drip zone will be installed.

- 2. **Connect to Main Line:** Attach the 3/4" FHT swivel adapter to your water source. Ensure a secure, leak-free connection.
- 3. **Orient Assembly:** Observe the flow direction arrow on the valve assembly. Install the unit so that water flows from the main line, through the filter, then the valve, and finally the pressure regulator.
- 4. **Connect Drip System:** Connect your drip tubing or irrigation pipe to the outlet side of the pressure regulator.
- 5. **Wire the Valve:** Connect the two wires from the 24 VAC in-line valve to your irrigation controller's 24 VAC output terminals. Ensure proper electrical connections according to your controller's manual.
- 6. **Test System:** Slowly turn on the main water supply and activate the valve via your irrigation controller to check for leaks and proper operation.

4. OPERATING INSTRUCTIONS

The DIG DM075 Automatic Valve Assembly is designed to work in conjunction with a 24 VAC irrigation controller. Once properly installed and wired, the valve will open and close based on the programming of your irrigation controller.

- **Automatic Operation:** The 24 VAC in-line valve receives signals from your irrigation controller to initiate and terminate watering cycles for the designated drip zone.
- **Pressure Regulation:** The integrated 25 PSI preset pressure regulator automatically reduces and maintains the water pressure entering your drip system at the optimal 25 PSI, protecting emitters and micro-sprinklers from high pressure damage.
- **Filtration:** The 155 mesh screen filter continuously removes particles from the water, preventing clogging of drip emitters and ensuring consistent water delivery.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your DM075 valve assembly.

- **Filter Cleaning:** Periodically inspect and clean the 155 mesh screen filter. To clean, turn off the water supply, unscrew the filter housing, remove the screen, rinse it thoroughly under running water, and reassemble. Frequency depends on water quality.
- **Leak Inspection:** Regularly check all connections for leaks. Tighten any loose fittings.
- **Winterization:** In freezing climates, ensure the system is properly drained and protected from frost damage according to local guidelines for irrigation systems.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No water flow	Water supply off; Controller not sending signal; Clogged filter; Valve malfunction.	Check main water supply; Verify controller programming and wiring; Clean filter; Inspect valve for damage.
Low water pressure/flow	Partially clogged filter; Insufficient main water pressure; Kinked tubing.	Clean filter; Check main water pressure; Inspect and straighten tubing.

Problem	Possible Cause	Solution
Water leaking from connections	Loose fittings; Damaged threads/seals.	Tighten connections; Replace damaged components or seals.
Valve not turning off	Debris in valve; Solenoid issue; Controller malfunction.	Flush valve to remove debris; Check solenoid wiring and function; Verify controller operation.

7. SPECIFICATIONS

Attribute	Detail
Product Dimensions	6 x 3 x 4 inches
Item Weight	0.16 ounces
Manufacturer	DIG
ASIN	B004NPYD2Y
Item Model Number	DM075
Valve Type	24 VAC In-Line Valve
Filter Mesh Size	155 Mesh
Preset Pressure Regulation	25 PSI
Connection Size	3/4" FHT Swivel Adapter with 700 OD
Flow Rate	Less than 1 GPH up to 12 GPM

8. WARRANTY & SUPPORT

For specific warranty information and technical support, please refer to the documentation provided with your purchase or visit the official DIG website. It is recommended to register your product if applicable to ensure access to full warranty benefits and support resources.

For further assistance, you may contact DIG customer service directly through their official channels.



Related Documents - DM075

	<p>DIG Drip Irrigation Guide: Get Started with Waterwise Drip Irrigation</p> <p>Learn how to set up and use a water-efficient drip irrigation system with the DIG Drip Irrigation Guide. This guide covers system components, installation, and advantages of drip irrigation for a healthy and beautiful landscape.</p>
	<p>DIG Drip Irrigation Systems: Water-Saving Guide for Gardens & Landscapes</p> <p>Comprehensive guide to DIG's water-efficient drip irrigation products, covering system planning, installation, drippers, micro sprinklers, and maintenance for healthier gardens and landscapes.</p>
	<p>DIG Drip Irrigation Guide: Water-Saving Solutions for Your Landscape</p> <p>A comprehensive guide to DIG's drip irrigation products, covering system design, installation, and maintenance for efficient water use in residential and commercial landscapes. Learn about drippers, micro sprayers, timers, and more.</p>
	<p>DIG ST100AS Drip and Soaker Vegetable Watering System Installation Guide</p> <p>Installation instructions and guide for the DIG ST100AS Drip and Soaker Vegetable Watering System. Learn how to set up, design layouts, and manage watering schedules for efficient vegetable garden irrigation.</p>
	<p>DIG G77AS Landscape Drip Watering System Installation Guide</p> <p>Comprehensive installation instructions and guide for the DIG G77AS Landscape Drip Watering System, including component lists, setup steps, watering schedules, and specifications.</p>
	<p>DIG BTC-ASV Bluetooth Battery Powered Irrigation Timer Instruction Manual</p> <p>Instruction manual for the DIG BTC-ASV Bluetooth Battery Powered Irrigation Timer, covering installation, operation, app screens, and warranty information.</p>