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> [Rain Bird HVF Inline Valve with Flow Control 1 in. Slip | 100-HVF-SS Instruction Manual](#)

Rain Bird 100-HVF-SS

Rain Bird HVF Inline Valve with Flow Control 1 in. Slip

Model: 100-HVF-SS

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Rain Bird HVF Inline Valve with Flow Control. Designed for residential irrigation systems, this valve features a 1-inch slip connection and an integrated flow control mechanism for precise water management. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the product.

SAFETY INFORMATION

WARNING:

- Always turn off the main water supply before installing or performing maintenance on the valve.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection during installation.
- Ensure all connections are secure to prevent leaks and water damage.
- Do not exceed the maximum operating pressure of 150 PSI.
- If you are unsure about any installation steps, consult a qualified irrigation professional.

PRODUCT FEATURES

- **1 in. (26/34) Slip x Slip Plastic Residential Irrigation Valve:** Designed for standard residential irrigation systems.
- **Unique, Easy-to-Turn, Pressure-Assisted Flow Control Mechanism:** Allows for precise adjustment of water flow.
- **Eccentric Diaphragm for Smooth Closing, Less Water Hammer:** Reduces stress on the irrigation system by preventing sudden pressure changes.
- **Compact Design, 2.54 in. Spin Radius for Tight Installations:** Facilitates installation in confined spaces, allowing more valves in a single valve box.
- **Captive Multi-Drive Screws for Ease of Access and Faster Bonnet Removal:** Simplifies maintenance and repair procedures.

SETUP AND INSTALLATION

1. Prepare the Site:

Ensure the main water supply is turned off. Dig a trench or prepare a valve box location that allows for easy access and maintenance. The compact design of this valve (2.54 in. spin radius) is ideal for tight installations.

2. Connect the Valve:

The valve features 1-inch slip connections. Apply appropriate PVC primer and cement to both the valve's inlet/outlet and the irrigation pipes. Ensure the valve is oriented correctly with the flow arrow pointing in the direction of water flow. The inlet connection size is 1.32 inches.



Image: Rain Bird HVF In-line Valve. This image shows the compact design of the valve, highlighting its 1-inch slip connections and the flow control knob. The valve is made of plastic and has a durable construction suitable for residential irrigation systems.

3. Secure Connections:

Allow sufficient time for the PVC cement to cure according to the manufacturer's instructions before turning on the water supply.

4. Wiring (if applicable):

If connecting to an automatic irrigation controller, ensure proper wiring of the solenoid according to the controller's instructions. This valve is typically used with a 24VAC solenoid (sold separately or integrated).

OPERATING INSTRUCTIONS

1. Initial Water Supply:

Slowly turn on the main water supply to the irrigation system. Check for any leaks at the connections.

2. Flow Control Adjustment:

The valve features an easy-to-turn flow control knob. Turn the knob clockwise to decrease flow and counter-clockwise to increase flow. Adjust the flow to meet the specific needs of your irrigation zone. The eccentric diaphragm ensures smooth closing, minimizing water hammer.

3. Manual Operation:

Most valves include a manual bleed screw or lever for manual operation. Refer to the specific valve model for manual override instructions if needed for testing or maintenance.

MAINTENANCE

- **Regular Inspection:** Periodically inspect the valve for any signs of leaks, cracks, or damage.
- **Diaphragm and Bonnet Access:** The captive multi-drive screws allow for easy and fast removal of the bonnet for inspection or replacement of the diaphragm. Ensure the water supply is off before opening the valve.
- **Winterization:** In freezing climates, ensure the irrigation system, including the valve, is properly drained and winterized to prevent damage from freezing water.

TROUBLESHOOTING

- **No Water Flow:**
 - Check if the main water supply is on.
 - Ensure the flow control knob is not fully closed.
 - Verify the solenoid is receiving power from the controller (if automated).
 - Inspect the diaphragm for debris or damage.
- **Constant Water Flow (Valve Won't Close):**
 - Check for debris lodged in the diaphragm or valve seat.
 - Ensure the solenoid is functioning correctly and not stuck in the open position.
 - Inspect the diaphragm for tears or damage.
- **Leaks from Bonnet:**
 - Tighten the captive multi-drive screws evenly.
 - Inspect the bonnet O-ring or gasket for damage and replace if necessary.
- **Reduced Flow:**
 - Adjust the flow control knob to increase flow.
 - Check for blockages in the irrigation line or valve.

If issues persist after troubleshooting, contact a qualified irrigation technician or Rain Bird customer support.

SPECIFICATIONS

Attribute	Value
Brand	Rain Bird

Model Number	100-HVF-SS (H02010)
Material	Plastic
Inlet Connection Size	1.32 Inches
Inlet Connection Type	Slip
Maximum Operating Pressure	150 Pound per Square Inch (PSI)
Number of Ports	2
Product Dimensions (L x W x H)	2 x 4 x 3 inches
Item Weight	11.2 ounces
Exterior Finish	Stainless Steel (Note: Product is plastic, this might refer to internal components or specific fasteners)
Certifications	ASME, ANSI, ASTM, NSF, UL, EPA, UPC, FM, CE, ASSE, API 609

WARRANTY AND SUPPORT

Rain Bird products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Rain Bird website. For technical support, replacement parts, or further assistance, please contact Rain Bird customer service through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

You can visit the [Rain Bird Store on Amazon](#) for more products and information.



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