

Hunter PGV201

Hunter PGV201 2-Inch Globe/Angle Valve with Flow Control User Manual

Model: PGV201

INTRODUCTION

Thank you for choosing the Hunter PGV201 2-Inch Globe/Angle Valve with Flow Control. This heavy-duty valve is designed for reliable performance in residential and light commercial irrigation systems. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal functionality and longevity of your valve.

SAFETY INFORMATION

WARNING: Handle with care to avoid water pressure damage. Ensure proper electrical connections to prevent hazards. Always turn off the main water supply and electrical power to the irrigation system before performing any installation, maintenance, or repair work on the valve.

- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection.
- Consult local building and plumbing codes before installation.
- Do not exceed the maximum pressure rating of 150 PSI.
- Ensure all connections are watertight to prevent leaks.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and lifespan of your PGV201 valve. Follow these steps carefully:

1. **Prepare the Site:** Excavate a trench to the desired depth, ensuring adequate space for the valve and piping.
2. **Turn Off Water Supply:** Locate the main water shut-off valve for your irrigation system and turn it off completely.
3. **Connect Piping:** The PGV201 is a 2-inch valve. Connect the inlet side of the valve to the main water line and the outlet side to the irrigation zone piping. Use appropriate fittings and sealants to ensure watertight connections. The valve can be installed in either a globe or angle configuration.

4. **Electrical Wiring:** Connect the valve's solenoid wires to your irrigation controller's common wire and the specific zone wire. Ensure all electrical connections are secure and protected from moisture. Refer to your irrigation controller's manual for specific wiring instructions.
5. **Test for Leaks:** Slowly turn on the main water supply and inspect all connections for leaks. Address any leaks immediately.
6. **Test Operation:** Manually activate the valve or use your irrigation controller to cycle the zone and ensure proper water flow.

OPERATING INSTRUCTIONS

Manual Operation

The PGV201 valve can be operated manually for testing or maintenance purposes:

- **To Open Manually:** Turn the solenoid counter-clockwise approximately one-quarter to one-half turn. Water will begin to flow.
- **To Close Manually:** Turn the solenoid clockwise until it is finger-tight. Water flow will stop. Do not overtighten.

Flow Control Adjustment

The flow control feature allows you to adjust the amount of water flowing through the valve, which can be useful for fine-tuning sprinkler performance or reducing water hammer.

- **To Decrease Flow:** Turn the flow control knob clockwise.
- **To Increase Flow:** Turn the flow control knob counter-clockwise.
- **Full Flow:** Turn the knob fully counter-clockwise.
- **Shut-off:** Turn the knob fully clockwise to shut off water flow to the zone.

Adjust the flow control while the valve is open and water is flowing to observe the effect on your sprinklers.

MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your PGV201 valve.

- **Seasonal Inspection:** Periodically inspect the valve for any visible damage, leaks, or debris accumulation.
- **Clean Filter (if applicable):** Some systems may have an inline filter before the valve. Clean or replace it as needed.
- **Winterization:** In freezing climates, it is essential to properly winterize your irrigation system, including draining water from the valves, to prevent freeze damage. Consult a local irrigation professional if unsure.
- **Diaphragm Inspection:** If the valve is not operating correctly, the diaphragm may need inspection or replacement. This typically involves unscrewing the top of the valve. Ensure the water supply is off before attempting this.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Valve does not open	No power to solenoid, faulty solenoid, clogged diaphragm, closed flow control.	Check wiring and controller. Test solenoid. Clean or replace diaphragm. Ensure flow control is open.
Valve does not close	Debris in valve, worn diaphragm, faulty solenoid.	Turn off water, disassemble and clean valve. Inspect and replace diaphragm. Test or replace solenoid.
Water leaks from valve	Loose connections, cracked housing, worn O-rings or diaphragm.	Tighten connections. Inspect housing for cracks. Replace O-rings or diaphragm.
Low water pressure/flow	Partially closed flow control, clogged filter, main water supply issue.	Adjust flow control. Clean inline filter. Check main water supply pressure.

SPECIFICATIONS

- **Model:** PGV201
- **Inlet Connection Size:** 2 Inches
- **Maximum Pressure:** 150 PSI (Pound per Square Inch)
- **Maximum Flow Rate:** 150 GPM (Gallons Per Minute)
- **Material:** Plastic
- **Product Dimensions (L x W x H):** 5 x 7 x 10 inches
- **Item Weight:** 1.2 pounds
- **Brand:** Hunter
- **Manufacturer:** Standard Plumbing Supply-LG
- **UPC:** 603981394160

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Hunter website or contact Hunter customer service directly. Keep your purchase receipt as proof of purchase.

Hunter Customer Support: www.hunterindustries.com/support