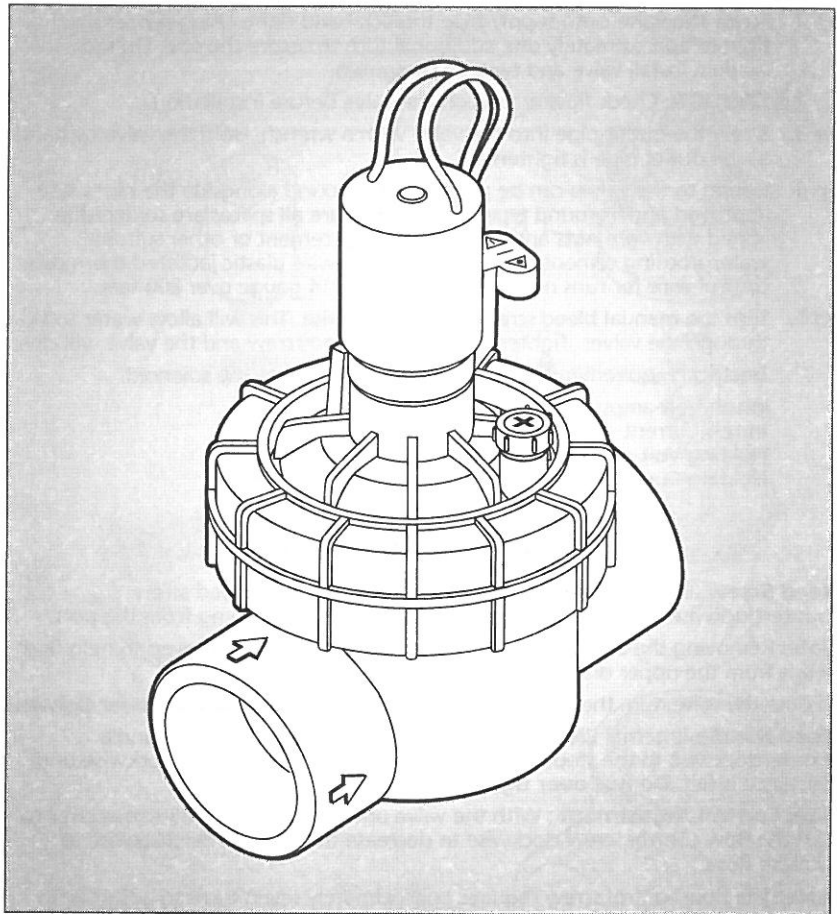


Irritrol®

2400 and 2600 Valve Series Installation and Operating Guide



Installation Instructions

The 2400 and 2600 Series valves incorporates a threaded bonnet design. The valves can be operated either electrically or manually.


In the areas where freezing conditions occur, make provisions for draining the system and install a stop and waste shut-off valve on the main line feeding the sprinkler system. To assure complete drainage of the valves after the water supply is shut off, electrically energize each valve for at least a few minutes (dry run). This vents the upper cavity of the valve, allowing maximum drainage.

Although the valves are rated to 150 psi, where local pressure exceeds 80 psi, a pressure regulator should be used. (See Uniform Plumbing Code, Sec. 1007 [b].) It is advisable to use a regulator with an automatic valve to assure long life as well as uniform and controllable operation.

Step 1. Flush the line thoroughly before installing the valve. Use 3 to 5 complete wraps of PTFE tape on the male pipe threads as a sealant; or use PVC cement on slip.

 **CAUTION:** Do not plug downstream bleed port with cement.

Step 2. Screw the valve onto supply pipe threads hand tight. Using a wrench, tighten approximately one additional turn to secure the seal. On slip models: Install valve and twist to straighten.

 **CAUTION:** Check flow arrows on the valve before installation.

Step 3. Screw the outlet pipe into the valve with a wrench. Hold the valve by hand as the outlet pipe is tightened.

Step 4. Wiring to the valves can be placed underground alongside the pipes. Use approved underground type wire and be sure all splices are soldered or joined with wire nuts and sealed with vinyl cement or other suitable waterproofing cement. Use 18 gauge solid wire plastic jacketed thermostat control wire for runs not over 800 feet and 14 gauge over 800 feet.

Step 5. Turn the manual bleed screw counterclockwise. This will allow water to flow through the valves. Tighten the manual bleed screw and the valve will close.

Electrical requirements are 18 volts AC minimum at the solenoid.

Inrush Volt-amps	@ 24 VAC = 11.50 VA
Inrush Current	@ 24 VAC = 0.48 Amps
Holding Volt-amps	@ 24 VAC = 5.75 VA
Holding Current	@ 24 VAC = 0.24 Amps

Manual Operation

• **Bleed Screw** (External Bleed): To open the valve, turn the bleed screw counterclockwise one full turn or until water begins discharging from the port.

Note: Removing the bleed screw is not required but can be removed to help flush debris from the upper diaphragm area.

To close the valve, turn the bleed screw clockwise until it stops. **Do not over tighten!**

• **Bleed Handle** (Internal Bleed): To open the valve, move the bleed handle counterclockwise to the stop. To close the valve, move the handle clockwise until resistance is felt. **Do not over tighten!**

• **Flow Control Adjustment** : With the valve operating, use a small screwdriver to turn the flow control screw clockwise to decrease flow or counterclockwise to increase flow.

Note: The flow control screw requires approximately seven turns to adjust from maximum to minimum flow.

 **CAUTION:** Do not use the flow control to shut off the valve. Do not force the flow control past the end of normal adjustment travel. Damage can occur.

Maintenance Instructions

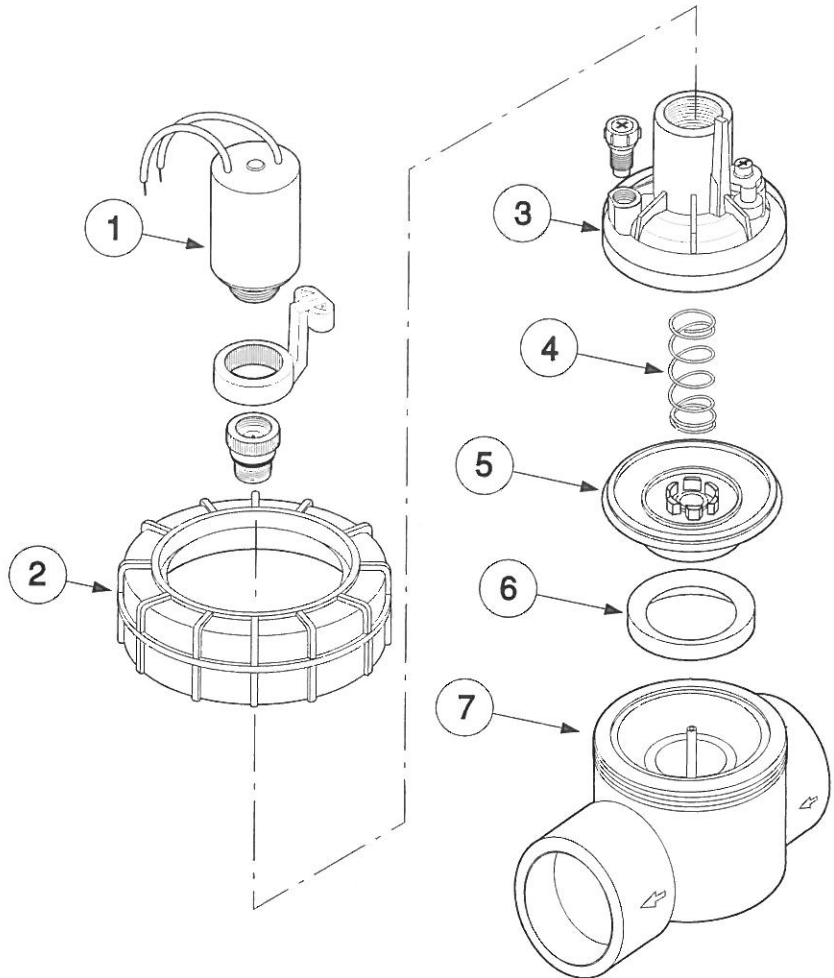
Valves with threaded bonnets are easily disassembled and maintained, without removing the valve body from the circuit.

To disassemble the valve:

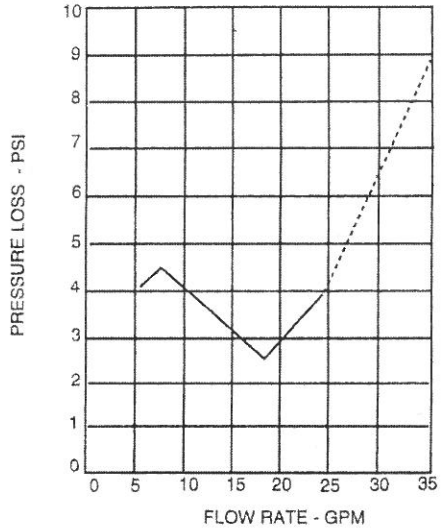
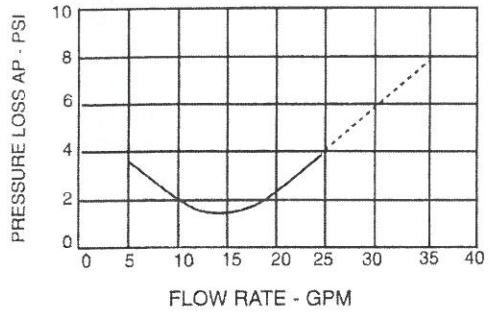
- Step 1.** Shut off the water supply and bleed pressure from the valve.
- Step 2.** Unscrew (counterclockwise) the nut cap (2), then remove the cover assembly (3) by gripping the solenoid (1) and gently rocking back and forth until the cover assembly (3) is loose and lifts off.
- Step 3.** You may then remove the spring (4), diaphragm (5) and divider (6).

To reassemble the valve:

- Step 1.** Into the valve body (7), install the divider (6), diaphragm (5) (be sure the bead is seated properly), spring (4), cover assembly (3) and nut cap (2).



Pressure Loss Charts



Recommended _____
Not Recommended -----

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