

Plastic Remote **Control Valves**



The LP Plastic Remote Control Valves are ideal for use in residential and commercial irrigation applications. These valves are also suitable for non-potable installations found in greenhouse, nursery and agricultural applications. The innovative metering design provides contamination resistance that keeps the valve working and maintenance to a minimum.

Features

- Reverse flow design
 - Reverse flow provides zero pressure stress on the diaphragm for long life.
 - Should the diaphragm fail, this design allows the valve to fail in the closed position thereby preventing wasted water.
- EZ operation internal bleed lever allows water to escape downstream during manual operation.
- Simple, one-piece molded diaphragm
- Reinforced ribbed bonnet with added strength for surge protection, and the cover bolts are stainless steel threaded into brass inserts for long term durability.
- Ideal for low volume drip irrigation zones.
- Easily removable handle prevents tampering after flow adjustment.



landscapeproductsinc.com

Office: 623 643 9704

Closed

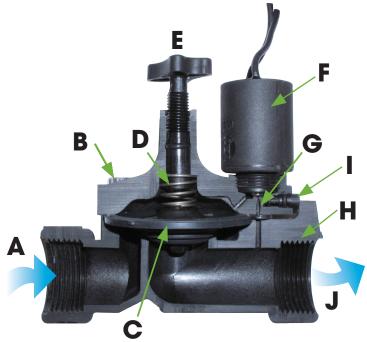
- Valve remains closed when there is equal static pressure on the top and bottom of the diaphragm.
- The area on top of the diaphragm is larger than the bottom surface area.
- This larger surface area on top of the diaphragm exerts a greater force causing the diaphragm to remain closed.

Valve Operation

- When the solenoid is electrically energized or the manual bleed lever is lifted, the plunger is raised into the solenoid coil.
- The water can then escape from the top chamber faster than it can be re-filled.
- As the top chamber empties, the valve opens due to a greater force being applied underneath the diaphragm allowing water to flow out to the irrigation zone.

Open

- The valve will remain open while the solenoid is energized or the manual bleed lever is in the up position.
- When the valve is de-energized or the bleed lever is lowered, the plunger drops to cover the exhaust port.
- The top chamber will fill with water and the force above the diaphragm builds, and with the aid of the diaphragm spring, the valve closes.



- A. Inlet
- **B.** Stainless Steel Bolt
- **C.** Diaphragm
- D. Diaphragm Spring
- E. Flow Control
- F. Solenoid
- **G.** Exhaust Port
- **H.** Valve Body
- I. Manual Bleed Lever
- J. Outlet Downstream

Operating Pressures

| Item Number | Model Number | Size | Operating PSI | Flow Range |
|-------------|--------------|--------|---------------|---------------|
| 01000530 | VP-10 | 1" | 3-150 PSI | 0.25 – 40 GPM |
| 01000550 | VP-15 | 1 1/2" | 10-150 PSI | 20 – 70 GPM |
| 01000560 | VP-20 | 2" | 10-150 PSI | 30 – 100 GPM |

Pressure Loss in PSI

| GPM | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 60 | 70 | 80 | 90 | 100 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|------|------|------|
| VP-10 | 3.3 | 3.8 | 4.3 | 4.8 | 5.5 | 6.5 | 7.9 | 9.8 | 12.4 | 15.7 | | | | | |
| VP-15 | | | | 4.4 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8.5 | 9.7 | 10.9 | 12.4 | 14.2 |
| VP-20 | | | | | | 2.1 | 2.1 | 2.1 | 2.2 | 2.2 | 2.4 | 2.7 | 3.1 | 3.5 | 4.1 |