

Plastic Remote Control Valves

VP Series Contamination Resistant

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

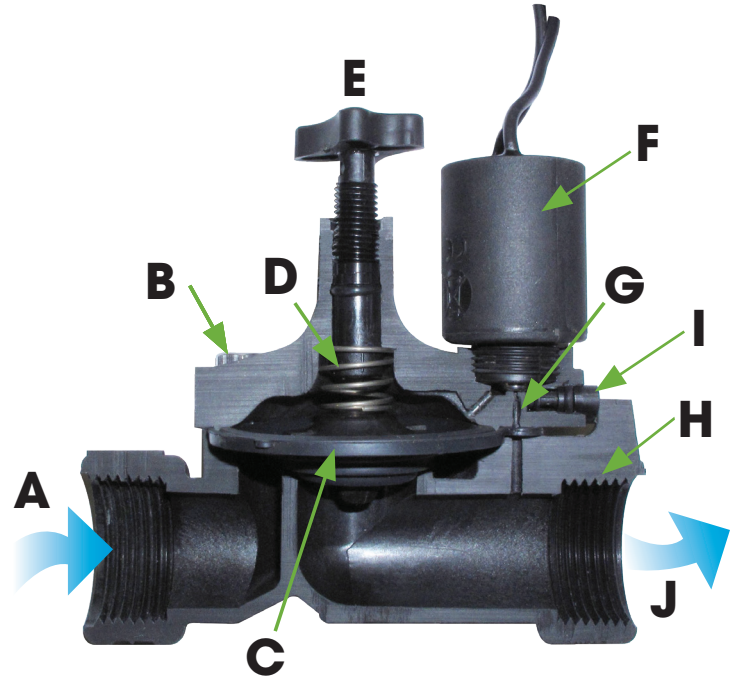
- Reverse flow design
 - Reverse flow provides zero pressure stress on the diaphragm for long life.
 - Should the diaphragm fail, this design allows the valve to fail in the closed position thereby preventing wasted water.
- EZ operation internal bleed lever allows water to escape downstream during manual operation.
- Simple, one-piece molded diaphragm
- Reinforced ribbed bonnet 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.

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.



- 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

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.

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