



IRRIGATION

PART 1 - PRODUCTS

1.1 VALVE

- A. CONTAMINATION RESISTANT REMOTE CONTROL VALVES shall be No. 11024FCR Black MAX-DW as manufactured by Weathermatic Sprinkler Division of Telsco Industries, or approved equal, with hand operated manual internal bleed and flow control. Valve shall be solenoid-operated, diaphragm, reverse flow globe type, with 225 psi CWP rating, having NPT threads (1-inch, 1 ½-inch and 2-inch) (optional ISO) and be suitable for underground burial without protection.
1. Valve shall have glass-filled, high strength plastic body and cover with stainless steel spring. Cover shall be secured to body with stainless steel cover bolts having mating brass body inserts. Diaphragm shall be chlorine/ chloramine resistant, molded material with seat to form an integral unit.
 2. Valve shall be packless, without sliding seals, and completely serviceable without removing body from pipeline. Design shall be "normally-closed" requiring solenoid to be energized to open valve, thereby causing automatic closure in event of power failure. Solenoid shall comply with Class II National Electric Code and when operating require a maximum of 5.69 VA at 24 volts ac.
 3. Diaphragm design shall incorporate self-cleaning ports to inhibit sand and silt blockage.
 4. Solenoid shall be integrally mounted in valve cover and encapsulated in molded resin to form a corrosion and moisture-proof unit with exposed metal components of non-corrosive material. Solenoid actuator shall be stainless steel.
 5. Flow control shall be brass non-rising type with O-ring seal and adjustable from outside the valve for permanent throttling or complete closing of valve. Valve shall accept the Weathermatic PRK-24 pressure-regulating device without replacement of the valve body or cover.
 6. The diaphragm assembly should have a brass shock cone to dampen pressure fluctuations and ensure smooth operation.
- B. Solenoid shall be energized to open the valve hydraulically and de-energized to close. Pressure to the hydraulic chamber shall be supplied internally through non-metallic, corrosion-free orifices in the diaphragm with stroke of diaphragm causing a cleansing action of the orifices. There shall be no screens, filters, or strainers that can "clog up" and cause the valve to fail in the open position. There shall be no external bleeding or external tubing to furnish actuating pressure.
- C. The valve shall have a manufacturer's limited warranty of not less than ten (10) years.