

NETAFIM REMOTE CONTROL VALVE

Description

The Netafim Remote Control Valve is used to control the flow of water to drip irrigation zones within a landscape area. The Netafim valve is available in 25 mm, 40mm and 50mm BSP threaded ports and can be actuated by 24-volt AC or 12 volt DC signals.

Construction

The Netafim Remote Control Valve shall be constructed of fiberglass reinforced nylon, with EPDM diaphragms and no springs. The body shall be held together by four stainless steel screws with counter sunk ports to prevent the screws falling out when bonnet is removed. The actuation mechanism shall be totally sealed and shall not come into contact with the irrigation water. The valve shall be capable of being installed under water for prolonged periods of time without fear of actuator failure. The valve shall have an in-built flow control mechanism, which does not release on diaphragm restriction. The flow control shall be like an internal "ball valve" which controls flow and hence there shall no possibility of cavitation.

The valve shall have a protective coloured top, which prevents excessive heat transmission into the top of the valve if it is installed out side of a valve box. The valve shall be available with AC or DC actuation, have three way water control with internal bleed and have internal ports of 2.0 mm or larger.

Operation

It is recommended that there be a gravel base in the valve box to allow any water that enters the box to drain away quickly.

The valve shall have an inrush current of 150 milliamps and a holding current of 0.1 to 0.2 milliamps at all pressure ranges.

The valve shall be set to run automatically or manually by setting the desired mode on the top of the valve. The valve shall be capable of operating within a flow range of 25 L/hr to 6m³/hr and a pressure range of 20 to 1000 kPa.

The valve shall be a Netafim Model Number _____ with a maximum flow of _____ L/min and a maximum pressure loss _____ kPa or equivalent.

WEATHERMATIC 25mm VALVE

Description

Remote control valve shall be No. 12024EF series Valves as manufactured by Weathermatic Sprinkler Division for Netafim with hand operated manual internal bleed and flow control. Valve shall be solenoid operated, diaphragm, reverse flow type, with 125 psi CWP rating, having BSP threads and suitable for underground burial without protection.

Construction:

Valve shall be of a PVC solvent weld type with glass filled high strength plastic cover and stainless steel spring. Cover shall be secured to body with stainless steel cover bolts having mating brass body inserts. Diaphragm shall be chlorine resistant Santoprene and shall utilize conical base to reduce water hammer.

Design shall be reverse flow causing automatic closure in event of diaphragm wall failure. 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 when operating requires a maximum of 6.2 VA at 24 volts AC. 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. Flow control shall be adjustable from outside the valve for permanent throttling or complete closing of valve. Flow control is non rising.

Operation:

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 causing a cleansing action of the orifices. Contamination resistance shall be provided without the use of screen, filters or strainers. In event of tear in diaphragm wall valve shall remain in the closed position. Minimum flow range shall be no greater than 4.5L/hr.

The valve shall be a Netafim Model Number _____ with a maximum flow of _____ L/min and a maximum pressure loss _____ kPa or equivalent.