

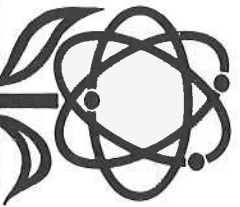
INSTALLATION & OPERATING INSTRUCTIONS

RICHDEL MODEL R713APR

PROFESSIONAL SERIES

AUTOMATIC

ANTI-SIPHON VALVE



RICHDEL

 A GARDENAMERICA COMPANY

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INSTALLATION INSTRUCTIONS

The R713APR Professional series automatic valve is a 1" combination angle and anti-siphon valve with a flow adjustment control. The valve can be operated manually or electrically.

In areas where freezing conditions occur, make provisions for draining system. Use a stop and waste shut-off valve installed on main line feeding the sprinkler system. To assure complete drainage of the valve after 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 valve is rated to 150 psi, where local water 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 any automatic valve to assure long life, uniform and controllable operation.

The anti-siphon valve should be installed at least 6 inches above the surrounding ground and above a sufficient number of heads so that no time will the anti-siphon valve be subject to back pressure or drainage. There must not be any valve downstream of the anti-siphon. [See Uniform Plumbing Code Sec. 1003(2)(7)].

- Step 1.** Flush line thoroughly before installing valve. Use teflon pipe tape or standard pipe compound for thread sealant, on male threads.
- Step 2.** Screw valve onto supply pipe threads hand tight. Use wrench only to straighten valve into position.
- Step 3.** Screw outlet pipe into valve with wrench, hold valve by hand as 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 water-proofing cement. Run one common wire to each location to serve all the valves at that location. Use 18 gauge solid wire plastic jacketed thermostat control wire for runs not over 800 feet and 16 gauge over 800 feet. This wire is available from your dealer in 2, 3, 4, 5, 6, 7 and 8 color coded wires. Connect solenoid to a controller that uses an approved class 2, 24V. transformer as a power source.

Step 5. Turn flow control clockwise until it seats, closing the valve. Turn water supply on. The valve will remain closed.

Step 6. Turn manual bleed screw counterclockwise. This will allow water to flow through the valve as the flow control is backed out; adjust the flow control for desired flow. Tighten manual bleed screw and valve will close within a minute. Remove flow control knob to discourage unauthorized adjustment.

Electrical requirements are 18 Volts A.C. minimum at the solenoid.

Inrush volt-amps	@ 24 V.A.C. =	11.5 VA.
Inrush current	@ 24 V.A.C. =	.48 AMPS.
Holding volt-amps	@ 24 V.A.C. =	5.75 VA.
Holding current	@ 24 V.A.C. =	.24 AMPS.

NOTE: Due to varying regulations check your local codes.

