

## **SPECIFICATIONS**

### **8030 Series Remote Programmable Actuator**

The Remote Programmable Actuator shall be a self-contained, waterproof, programmable solenoid which operates from a single 9V alkaline battery. Models 8032 and 8033 are complete systems on Nelson 7901 and 7916 (BSP) valves, respectively. Model 8030 includes a Nelson adapter for installation on any Nelson valve. For Hardie, Rain Bird and Toro Valves the 77422 (Hardie), 77423 (Toro) and 77424 (Rain Bird) adapters must be used.

The actuator shall be programmed via a secured, waterproof, telephone plug connection to the model 8070 Programmer, 8071 Programmer Plus or the 8081 Radio Programmer Plus control consoles. The actuator can be programmed via radio communication with the 8040 Radio Adapter to the model 8081 Radio Programmer Plus. The 8040 Radio adapter mounts directly to the actuator.

The Remote Programmable Actuator shall provide up to 8 (with 8070) or 16 (with 8071 and 8081) watering schedules per day with watering times from 1 minute to 24 hours (1-minute increments). Each independent schedule will have a start time, a finish time, and a 7-day (8070) or 14-day (8071 and 8081) watering calendar. There shall also be a timed manual operation from 1 to 99 minutes. Before executing the timed manual operation the actuator will delay 30 seconds after the Programmer control console is disconnected before beginning watering. The Remote Programmable Actuator shall have the option of an interruption of starts (rain mode) which shall interrupt all watering schedules without disturbing the program. The actuator shall retain its memory for approximately 5 minutes during battery changes.

The Remote Programmable Actuator shall be constructed of three components: the actuator body, the battery compartment and the protective cover. When the battery cover is installed properly the programmable actuator shall be submersible to six feet of water. The solenoid plunger and attached spring shall be constructed of stainless steel. A micro processor chip shall be encapsulated into the solenoid with a waterproof resin.

The Remote Programmable Actuator shall use a low power latching solenoid. With a high quality alkaline battery, such as Energizer® (Energizer® is the registered Trademark of Eveready Battery Company, Inc.), the Remote Programmable Actuator shall operate for one operating season. The actuator shall operate at pressures up to 150 PSI and at operating temperatures from 32° to 120° F.

The Remote Programmable Actuator shall have a two year warranty. The actuator shall be manufactured by L.R. Nelson Corporation, Peoria, Illinois.