TECHNICAL SUBMITTAL DATA SHEET
Water Tank Leak Detection & Automatic Shut-Off System

Job Name: _____________________________________________
Engineer:   ______________________________________________
Contractor:  _____________________________________________
Contractor P.O.:  ________________________________________
Job Location:  ___________________________________________
Engineer Approval:  ______________________________________
Contractor Approval:  ____________________________________
Representative:  _________________________________________

MODEL RS-094

TYPICAL INSTALLATIONS INCLUDE:
• Common-risk housing – condos and apartments
• Commercial break rooms
• New and retrofit construction
• Vacation homes and other unattended properties

HIGHLY RECOMMENDED FOR:
• Multi-residential complexes
• Commercial office buildings
• Any facility with a history of insurance claims for water damage

FEATURES:
• Full port valve sizes 1/2” to 1-1/4” dia.
• Reusable and testable; easy reset button
• Snap-fit actuator allows for manual operation of the valve
• Reliable, gear-driven valve – less susceptible to failure from build-up than spring-driven valves
• Plugs into a standard 120V AC outlet
• Audible alarm (83 dB)
• N/O and N/C dry contacts
• Factory pre-wired

MODIFIED KIT CONFIGURATIONS:
• RS-094-MK6 for Plenum Spaces
• RS-094-MK1 with Rope Sensor for Low-Profile Tanks
• RS-094-MK4 with Electrical Plug Interrupter
• RS-094-MK5 Kit with Gas Flow Interrupter
• RS-094-MK7 Kit with Gas Interface Cable

APPLICATION CONSIDERATIONS:
The RS-094 system is designed to prevent damage caused by an undetected plumbing leak from a water tank. The full port valve installs on the cold water inlet line to the water heater, and the snap-fit actuator attaches directly to the valve mounting pad. A puck-shaped leak detection sensor fits nicely in the pan or on the floor under the tank, typically under the pressure relief valve or in a similar area where water from a leak is likely to accumulate. This water sensor features a 1/16” stand-off to allow for air circulation and eliminate false alarms caused by humidity from the floor.

INSTALLATION OVERVIEW:
The RS-094 features an integrated receiver box and actuator that install directly onto the shut-off valve for tidy system installation, even if the water tank is not located near a wall. The system plugs into a standard 120V AC wall outlet. Components come pre-wired.

Emergency manual operation of the valve is accomplished by removing the snap-fit actuator and manually changing the valve to open or closed. In the event of a power failure, the valve will remain in position (either open or closed).
**RS-094 TECHNICAL SUBMITTAL DATA SHEET**

**ORDERING INFORMATION:**

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<th>Valve Size</th>
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**DIMENSIONS & WEIGHTS:**

**Shut-Off Valve**

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*(IN-LBS) TORQUE VALVES ARE MEASURED IN LABORATORY TESTS UNDER THE FOLLOWING CONDITIONS: TEMPERATURE: 68°F; PRESSURE: 0 PSI; FLUID: PURIFIED WATER.*

**OPERATING SPECIFICATIONS:**

**Valve**

Pressure Rating ...........600 WOG - 150 WSP
Max. Temperature ..........366°F
Max. Pressure ............Tested to 80 PSI

**Receiver Box / Actuator**

Transformer ...............120V AC
Voltage ....................24V AC
Absorbed Current .........0.6 A
Absorbed Power ...........15V A
Frequency .................50/60 Hz
Working Temp. ............0° to 100°F
Square Drive ..............0.43
Audible Alarm .............83 dB

**MATERIALS:**

**Valve**

Body ....................Low-lead brass
End Connection ...Low-lead brass
Stem ....................Low-lead brass
Ball ....................Low-lead brass (tea coated)
Ball Seats ...............PTFE
O-Rings .................FKM (Viton®)

**Receiver Box / Actuator & Sensor**

Body .....................High-performance engineered polymer

**CABLE LENGTHS:**

Power Cord ..............12'
Sensor Cable ..........8' (custom lengths avail.)

**APPROVALS:**

NSF/ANSI 61 and 372 approved valve.
MA Board of Registration of Plumbers Approval – Code # P1-0515-489.

**AVAILABLE ACCESSORIES:**

- **Wired Sensor Pucks** – Up to 5 additional sensors can be wired to a single RS-094 receiver box for a wider area of leak detection.
- **Sensing Rope Kit** – Ideal for use with low tanks, or for room perimeter and sub-floor leak detection applications.
- **Auto Dialer** – A convenient, low-cost add-on to send and receive automatic alerts whenever your FloodMaster system identifies a fault condition.

RDT recommends that installations be completed by a licensed plumber to ensure that all local code requirements are followed.