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

Job Name: _____________________________________________  Job Location: _____________________________________________
Engineer:  ______________________________________________  Engineer Approval:  ______________________________________
Contractor:  _____________________________________________  Contractor Approval:  ____________________________________
Contractor P.O.:  ________________________________________  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
• 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 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 leak detection sensor is placed 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.

INSTALLATION OVERVIEW:
The RS-094 plugs into a standard 120V AC wall outlet. Components come pre-wired. The system can be performance tested anytime; it is resettable via reset button on actuator. Suitable for new construction or retrofit, gas-powered or electric tanks, conventional or tankless systems. Optional dry contact connections (NO/C/NC) are available for fault notification to existing security panel or BMS.

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:**

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>P/N</th>
<th>UPC</th>
</tr>
</thead>
<tbody>
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<td>1/2&quot;</td>
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<td>1-1/4&quot;</td>
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</tbody>
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**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.

**DIMENSIONS & WEIGHTS:**

**Shut-Off Valve**

**Water Sensor**

**Receiver Box / Actuator**

**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.

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

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