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

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 magnetic 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. It can be installed securely horizontally or vertically on the included metal plate. 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.

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. Dry contact connections (NO/C/NC) are included for fault notification to an 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>
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<tr>
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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
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 Water Sensors – 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.
- AutoDia ler – Receive automatic alerts whenever the RS-094 identifies a fault condition.
- Electrical Plug Interrupter – Power control relay for conventional plug-in Power-Vent gas water heaters; automatically turns the electricity to the appliance when a leak is detected.

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