



NORTH 42 SALES
LEAK DETECTION SOLUTIONS

TECHNICAL SUBMITTAL DATA SHEET

Plenum-Rated 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-MK6

TYPICAL INSTALLATIONS INCLUDE:

- Plenum-mounted water heaters and water tanks
- Installations requiring hard-wiring for electrical code

HIGHLY RECOMMENDED FOR:

- Commercial and municipal facilities
- Multi-residential complexes

FEATURES:

- Full port valve sizes 1/2" to 1-1/4" dia.
- Plenum-rated wires for the water sensor,

power supply and valve cable connections (as applicable)

- Step-down transformer (120, 208, 240 VAC to 24 VAC) with mounting plate in lieu of standard wall wart
- Pre-wired with basic connections to the power transformer and the sensor
- 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
- An audible alarm for quick identification of the problem
- All valves are suitable for potable water installations
- Dry contacts (NO/C/NC) to tie into existing building automation and security systems



Patent #6,035,699

APPLICATION CONSIDERATIONS:

Local fire, safety and electrical codes have strict guidelines for installation of electrical devices in plenum spaces, typically requiring that all devices be hard-wired directly to their power source and that special-grade "plenum-rated" wires be used. These special requirements often require a field retrofit to code, resulting in added time and expense. RDT makes it easy and convenient to work within these challenging spaces with its plenum-rated FloodMaster MK6 series kits.

The RS-094-MK6 system is designed to prevent damage caused by an undetected plumbing leak from a plenum-mounted water heater or tank. The full port valve installs on the cold water inlet line to the tank, 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-MK6 features an integrated receiver box and actuator that install directly onto the shut-off valve for tidy system installation. The system is hard-wired through a step-down transformer (120, 208, 240 VAC to 24 VAC). 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. Dry contact connections (NO/C/NC) are included for fault notification to an existing security panel or BMS.



For more information:

☎ 519-791-4943

✉ info@North42Sales.com

NORTH 42 SALES
LEAK DETECTION SOLUTIONS

RS-094-MK6 TECHNICAL SUBMITTAL DATA SHEET

ORDERING INFORMATION:

Valve Size	P/N	UPC
1/2"	RS-094-1/2-MK6	857640005960
3/4"	RS-094-3/4-MK6	857640005724
1"	RS-094-1-MK6	857640005977
1-1/4"	RS-094-1-1/4-MK6	857640005984

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 15W A
 Frequency 50/60 Hz
 Working Temp. 0° to 100°F
 Square Drive 0.43
 Audible Alarm 83 dB

Step-Down Transformer

Voltage 120, 208 or 240V AC to 24V AC

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®)

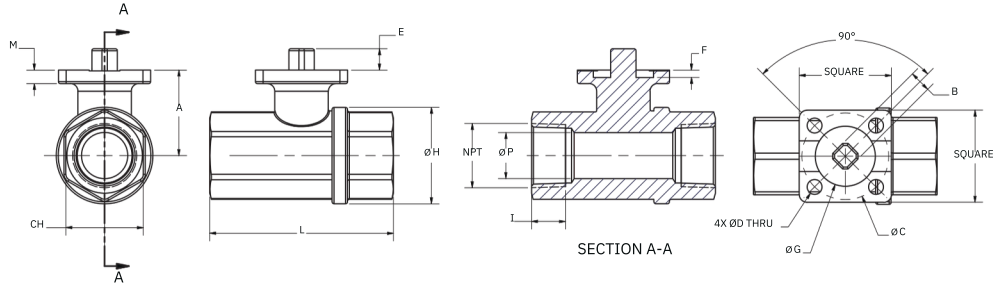
Receiver Box / Actuator & Sensor

Body High-perf. engineered polymer

CABLE LENGTHS:

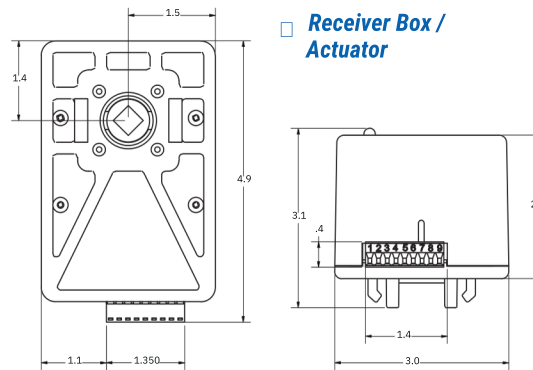
Transformer Cable 12'
 Sensor Cable 8' (custom lengths avail.)

DIMENSIONS: Shut-Off Valve



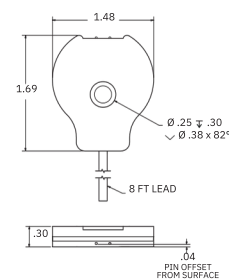
Size	Square	A	B	C	D	E	F	G	H	I	L	RSI	580	0.21	580	0.09	580	0.75	LBS/	IN-LBS
1/2"	1.50	1.28	0.35	1.42 (ISO F03)	0.24	0.35	0.08	0.98	1.32	0.59	2.64	0.06	1.02	0.28	580	0.45				53.10
3/4"	1.50	1.36	0.35	1.42 (ISO F03)	0.24	0.35	0.08	0.98	1.57	0.64	2.99	1.26	0.22	0.75	34.10					53.10
1"	1.50	1.79	0.35	1.42 (ISO F03)	0.24	0.35	0.12	0.98	1.93	0.75	3.54	1.61	0.24	0.95	49.71					53.10
1-1/4"	1.50	1.93	0.35	1.42 (ISO F03)	0.24	0.35	0.12	0.98	2.30	0.84	4.02									53.10

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



Receiver Box / Actuator

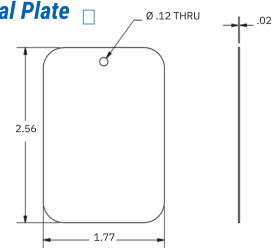
Water Sensor



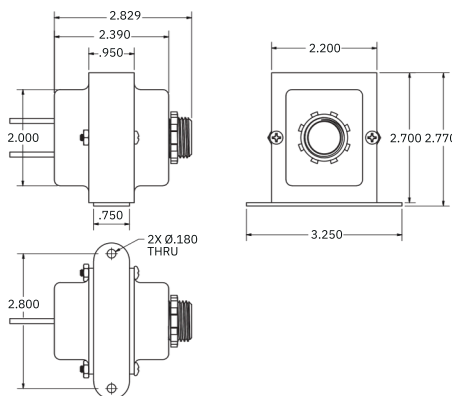
HORIZONTAL
 INSTALL OPTIONS
 VERTICAL



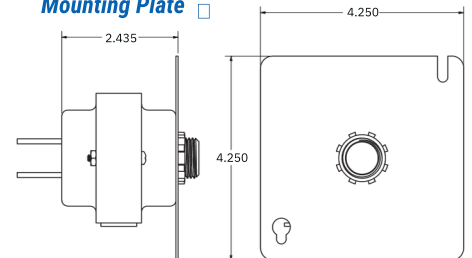
Metal Plate



Step-Down Transformer



Mounting Plate



AVAILABLE ACCESSORIES:

- **Wired Water Sensors** – Up to 5 additional sensors can be wired to a single receiver box for a wider area of leak detection.

N42 recommends that installations be completed by a licensed plumber to ensure that all local code requirements are followed.



NORTH 42 SALES
 LEAK DETECTION SOLUTIONS

For more information:

519-791-4943

info@North42Sales.com