

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

Job Name:	Job Location:
Engineer:	Engineer Approval:
Contractor:	Contractor Approval:
Contractor P.O.:	Representative:

MODEL RS-080 with 3/4" to 2" Ball Valve

TYPICAL INSTALLATIONS INCLUDE:

- Common-risk housing condos and apartments
- Commercial break rooms
- New and retrofit construction
- Mechanical rooms

HIGHLY RECOMMENDED FOR:

- Multi-residential complexes
- Commercial office buildings
- Any facility with a history of insurance claims for water damage

FEATURES:

- Full-port valves available from 3/4" to 2" dia.; systems with butterfly valves also available from 2-1/2" to 4" dia.
- Reusable and testable
- · Easy reset button
- Plugs into a standard 120V AC outlet
- Audible alarm (83 dB)
- Supports multiple water sensors for a wider area of leak detection
- N/O and N/C dry contacts
- · Factory pre-wired

MODIFIED KIT CONFIGURATIONS:

RS-080-MK6 Plenum-Rated Kit -

Features plenum-rated wires and stepdown transformer (120, 208, 240V AC to 24V AC) with mounting plate in lieu of standard wall wart. Ideal for any application that requires a valve installation on a supply line up in the plenum, with power and leak detection sensing in the work space below.



203-488-2684 or 888-771-4929 info@RelianceDetection.com www.RelianceDetection.com



APPLICATION CONSIDERATIONS:

The RS-080 is designed for localized leak detection (one room, one floor, etc.). When a leak is detected, the unit will sound an alarm and automatically shut off the main water supply line, preventing extensive water damage.

INSTALLATION OVERVIEW:

The full-port shut-off valve installs on the main water supply line. The receiver box plugs into a standard 120V AC wall outlet. A sensor is placed in an area where water from a leak is likely to accumulate. Up to 5 additional sensors can be added for a wider area of leak detection. Components come pre-wired.

Optional Cable Adder between the receiver and valve assembly allows the receiver to be located up to 100' from the valve (available in standard 10', 25', 50' and 100' lengths). Ideal for situations where the valve is located in hard to reach locations such as in risers, ceilings, crawl spaces, etc.

The system can be performance tested anytime; it is resettable via reset button on the receiver box. 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 turning the knob on the top of the actuator. In the event of a power failure, the valve will remain in position (either open or closed).

ORDERING INFORMATION:

Valve Size	P/N	UPC
3/4"	RS-080-3/4	857640005281
1"	RS-080-1	857640005298
1-1/4"	RS-080-1-1/4	857640005304
1-1/2"	RS-080-1-1/2	857640005311
2"	RS-080-2	857640005328

OPERATING SPECIFICATIONS:

Ball Valve

Pressure Rating 600 WOG - 150 WSP Max. Temperature......366°F

Electric Actuator

Voltage	.24V AC
Absorbed Current	.1.0 A
Absorbed Power	.24V A
Frequency	.50/60 Hz
Working Temp	4° to 131°F

Receiver Box

Audible Alarm83 dB

MATERIALS:

Ball 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®)

CABLE LENGTHS:

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

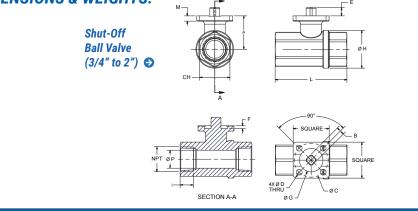
APPROVALS:

NSF/ANSI 61 and 372 approved valve.

MA Board of Registration of Plumbers Approval - Code # P3-0818-66.

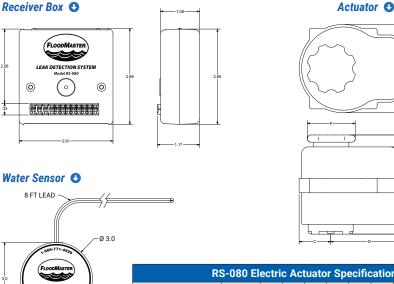
UL classified actuator.

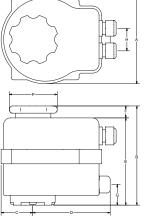




RS-080 Shut-Off Ball Valve Specifications: 3/4" through 2"																		
Size	Square	Α	В	C	D	E	F	G	Н	Ι	L	CH	М	Р	CV	PSI	LBS	IN-LBS
3/4"	1.50	1.36	0.35	1.42 (ISO F03)	0.24	0.35	0.08	0.98	1.57	0.64	2.99	1.26	0.22	0.75	34.10	580	0.40	53.10
1"	1.50	1.79	0.35	1.42 (ISO F03)	0.24	0.35	0.12	0.98	1.93	0.75	3.54	1.61	0.24	0.95	49.71	580	0.75	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	1.97	0.24	1.18	102.88	580	1.05	53.10
1-1/2"	1.97	2.52	0.43	1.97 (ISO F05)	0.28	0.43	0.12	1.38	2.87	0.84	4.49	2.17	1.39	1.50	265.88	580	1.73	150.46
2″	1.97	2.88	0.43	1.97 (ISO F05)	0.28	0.43	0.12	1.38	3.60	1.01	5.43	2.76	0.31	1.98	306.34	580	2.98	150.46

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





	RS	-080 El	ectri	c Aci	tuato	r Spe	ecific	atio	ns			
and a set	Size	Drilling ISO 5211	Α	В	С	D	Е	F	G	н	I	Р
meet	3/4", 1", 1-1/4"	F03-F05	4.84	5.57	1.67	4.74	4.96	0.61	4.06	1.26	0.55	2.68
	1-1/2", 2"	F03-F05	6.18	7.40	2.38	5.12	5.75	1.65	1.30	1.42	0.47	2.68

AVAILABLE ACCESSORIES:

- Wired Sensor Pucks Up to 5 additional sensors can be wired to a single RS-080 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 Receive automatic alerts whenever the RS-080 identifies a fault condition.
- Cable Adder Allows for positioning of the RS-080 receiver up to 100' further away from the valve.

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



Reliance Detection Technologies, LLC 27 Business Park Drive Branford, CT 06405

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