GEOSPACE™

AQUASENSE™
Smart Valve

3-POSITION REMOTE CONTROL VALVE WITH INTEGRATED AMI TRANSCIEVER

PROTECT YOUR PROPERTIES FROM DAMAGING WATER LEAKS WITH REAL-TIME WATER MONITORING & REMOTE CONTROL

AquaSense™ SV1 Smart Valve

AquaSense™ SV-1 Smart Valve with integrated AMR transceiver provides 2-way communication between the service location and the AquaControl™ Cloud-based web & mobile applications.

FEATURE HIGHLIGHTS

On-Valve analytics monitor at the edge for anomalies to send alerts and immediately close the valve to prevent flooding and property damage

Support resident/occupant billing with accurate, real-time water consumption data

Reduce operating expense through conservation Communicate using LoRaWan, LTE, Bluetooth, Z-Wave or Wifi

Easily and effectively submeter

Aquana Web & Mobile Applications, Cloud API for 3rd party Apps

PRODUCT DESCRIPTION

Three Valve Positions
Every AquaSense has 3 valve positions (OPEN, CLOSED, REDUCED FLOW), is NSF61 certified with a lead-free brass body, stainless steel ball valve, and is available in common residential pipe sizes.

Leak and Burst Protection
On-valve configurable leak and burst protection can provide flow-based detection, with immediate notification and automatic shutoff capabilities for constant flow and high flow conditions.

AMR Transceiver
The integrated AMR transceiver supports either pulse or encoded output meters, via 2 or 3-wire serial cable, to collect, store, and transmit meter readings at user configurable check-in intervals.

Power Options
AquaSense Smart Valve indoor model can be powered by either AC-power with on-valve battery backup, or by battery only. The battery is replaceable.
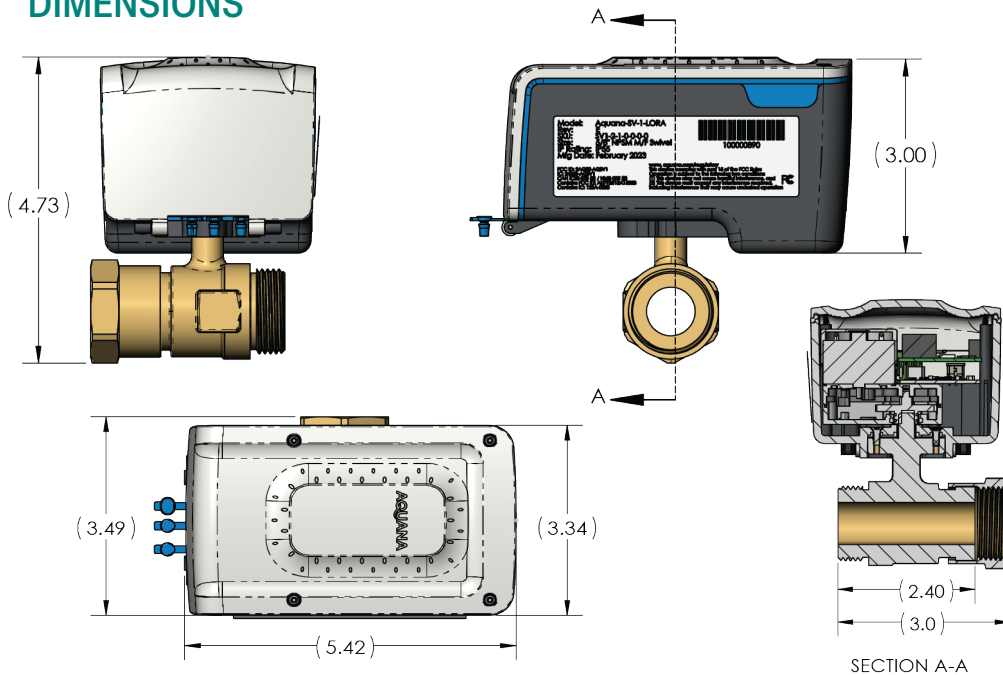
Smart Design & Easy Installation
The custom designed cable harness ensures the case is IP50 rated. Thread both AC power and/or meter cable through the inserts to create a water tight gasket seal around the cable. Screw down wires to the terminal block, attach the lid, and the device is ready.

smart WATER

Geospace.com | 713.986.4444 | sales@geospace.com

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MATERIALS & SPECIFICATIONS

Valve Positions	Three Position: Open, Closed, Reduced-1
Valve Body Material	Lead-free Stainless Steel Ball with Brass Body
Case Material	Estaloc 59300
Communication Interface	LoRaWAN (US915) Bluetooth for local control using Aquana Mobile App (iOS/Android)
Max Operating Pressure	150psi
Operating Temperature	-22ºF - 140ºF (-30ºC-60ºC)
Min/Max Water Temperature	Min: 32.1ºF (0.5ºC) | Max: 140ºF (60ºC)
Humidity	0-90% relative humidity (non-condensing)
Ratings/Certifications	FCC/IC, NSF61/Leadfree, IP50
Power Specifications	Input: 12vDC 1A; supplied by external power supply 100-240V, 50/60Hz, 0.5A Internal Power: 3.6V Lithium metal battery included (replaceable)
Warranty	10-year limited warranty (5 year full replacement, 5 year prorated)
Meter Support	Pulse and Encoded Meters, Configurable Read Interval
Weight	2.2 lbs. (1kg) - Depending upon pipe size

DIMENSIONS

SECTION A-A

PIPE SIZES

1/2" (DN15)
3/4" (DN20)
1" (DN25)

Note: The valve design provides the shortest lay length possible for tight fitting service locations at 2.40 and can be installed at any orientation.

SOLUTIONS FOR A SMARTER FUTURE