

STOP! water damage caused by broken pipes, leaking or broken hoses from washing machines, ice makers, toilets, water heaters, etc.

The ELK-WSV is a Professional Grade, electrically operated water shutoff valve for both residential and commercial use. Used in conjunction with an automation controller, leak detection devices, or a simple manual pushbutton, the WSV can easily and conveniently shut off the main water supply to the building. Unlike competitors' units, the ELK-WSV is a stainless steel, 1" full bore, ball valve with commercial grade seats and seals. It is a "non-restricting" valve which meets the approvals of state and municipal water authorities. The motorized actuator has a permanently lubricated gear drive with sufficient torque to open or close the valve under high pressure or after long periods of inactivity. The ELK-WSV valve can be operated via a relay from a security or automation controller such as the ELK-M1 Gold or M1EZ8. It can also be operated via a SPDT Emergency Pushbutton or "Easy" button for manual control. Operating time from fully open to fully closed is less than 4 seconds.



Features

- Rapid Action - Opening or Closing
- Provides Remote Shut off of Main Water Supply
- Integrates to Security or Automation Controller (e.g. Elk-M1 Gold or M1EZ8)
- Can be Integrated with a Simple "Easy" Button
- Can be Integrated with a Wireless Receiver and Wireless Pushbutton
- Simple 12 VDC, Four (4) Conductor Hookup
- Valve Direction/Water Flow Indication
- One (1) Year Warranty

Specifications

Valve:

- Full Port, 2-way Ball Valve
- Stainless Steel Grade 316
- Safe for Drinking Water
- 1" NPT threaded pipe connections

Actuator:

- Operates from 12 Volts DC
- Nominal Current Draw: 800 mA to 1.5 Amp
- Min. Rec. Power Supply: 12 VDC, 2 Amp
- Actuating Speed: < 4 seconds
- Torque: 1.25 in. lbs.
- Connections: 18 gauge, 4 conductor cord

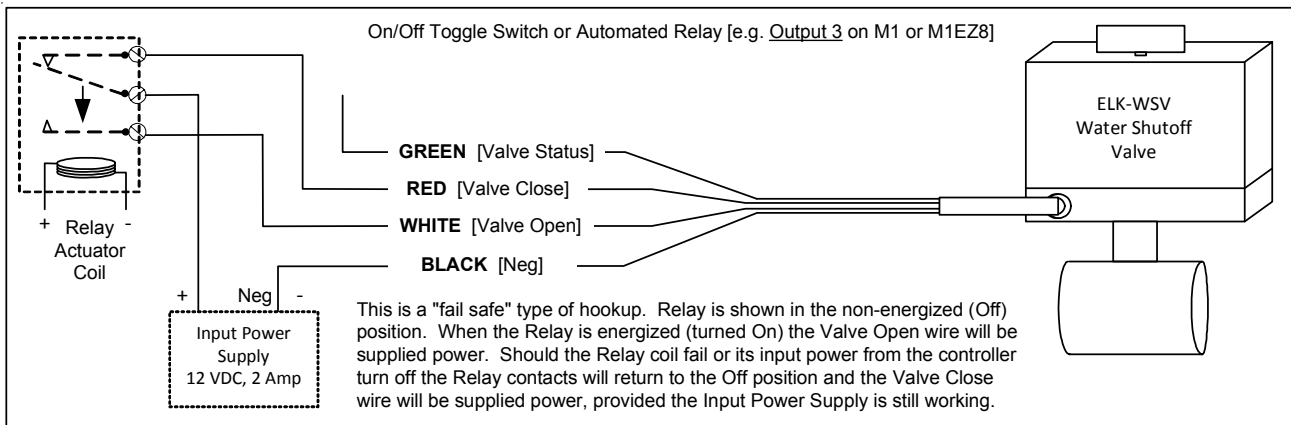
Overall Dimensions: 9" H, 5.75" W, 4" D

Installation

IMPORTANT NOTE: Observe all state and local regulations. Hire or consult an experienced or licensed plumbing professional if required. Valve is designed for INDOOR use ONLY! DO NOT INSTALL OUTDOORS! If the building has an internal manual water shutoff valve install the ELK-WSV after this (i.e. between the water fixtures and the manual valve) as an added benefit for maintenance or servicing. Do not remove the cover of the actuator unit. There are no user servicable components inside.

Make sure all necessary fittings and tools are available. Check the existing pipe material (plastic, copper, galvanized, etc), pipe diameter, and any special requirements that may be needed due to location of proposed mounting.

- Step 1. Manually shut off the main water supply at the water meter and outside valve.
- Step 2. Locate the building internal manual shut off valve (if present). This will generally be located very close to where the main water pipe enters the building. Turn this valve OFF just in case the outside valve fails to hold back the water supply.
- Step 3. Install the ELK-WSV into the main water line using appropriate fittings and materials.
- Step 4. Connect the 12 VDC electric controlling device to the ELK-WSV as per the following diagram.



- A 12 VDC, 2.0 Amp power supply is recommended for supplying the power requirements of the ELK-WSV.
- Install a four (4) conductor, 18 gauge minimum cable between the Valve and the electric control device. Splice the four (4) wires (RED, BLACK, GREEN, WHITE) coming from the Valve to the four (4) conductors that go to the controlling device. Use Gel filled "B" connector splicers and/or a junction box to protect the integrity of the splices.

To connect the ELK-WSV to Relay OUT3 of the ELK-M1G or EZ8 Controls:

Connect a wire from the + Positive output of a 12 Vdc Power Supply to the COM terminal of Relay OUT3.

Connect the ELK-WSV RED wire to the N/C (normally closed) terminal of Relay OUT3. When this Relay is Off (not energized) the 12 Vdc + Pos will be connected through this wire, causing the valve to Close if it was open.

Connect the ELK-WSV WHITE wire to the N/O (normally open) terminal of Relay OUT3. When this Relay is On (energized) the 12 Vdc + Pos will be connected through this wire, causing the valve to Open if it was closed.

Connect the ELK-WSV BLACK wire to the - Negative output of the 12 Vdc Power Supply.

OPTIONAL - Connect the ELK-WSV GREEN wire as desired. When the Valve is Closed this wire provides a POS (+) 12 Vdc output which can be used to drive a status indicator or automation zone input as needed. Insulate this wire if not used.

