



FlowGuard

Installation & User Guide



FlowGuard

Description

FlowGuard is designed to automatically shut off the mains water supply when a property is unoccupied.

It is installed after the mains water stopcock on the incoming cold water mains supply to a property. It monitors incoming flow rate over time and uses this to determine when the property is unoccupied. If it detects no flow over a set period of time (usually 24 hours) it will switch the water off.

FlowGuard does not have any effect upon the mains water supply in a property that is occupied and where water is in normal use.

Installation

LEAKSAFE RECOMMEND THAT THE FLOWGUARD SYSTEM IS INSTALLED BY A QUALIFIED PLUMBER. PLEASE READ ALL THE INSTRUCTIONS BEFORE STARTING THE INSTALLATION.

The FlowGuard system consists of three components:

1. A stainless steel 1" Valve with actuator
2. A 1" Flow Switch
3. A battery powered Water Valve Control.

Installing the stainless steel valve

The 1" stainless steel valve is suitable for use on pipes measuring 15mm – 28mm and is installed using industry standard connectors that are available from all good plumbing suppliers. LeakSafe recommends the use of compression couplings except where threaded couplings (BSP) are required.

Install the 1" valve after the stopcock on the incoming mains water supply and inside the property. The ball valve is not affected by the direction of water flow through it, so can be installed either way on the pipe.

When installing the valve take care to ensure that the manual operating knob on the top of the actuator and the window that shows if the valve is open or closed are accessible and visible.

Installing the Flow Switch

The Flow Switch is usually installed after the Valve, but can be installed either before or after the valve depending on the available amount of room on the pipe. If room permits the Flow Switch can be connected directly to the valve as shown.

If space is limited the switch can be located on the pipe separately to the valve. However, it must be positioned before any tee off points and its' connecting cable must be able to reach the Water Valve Control. It can be mounted horizontally or vertically.

THE FLOW SWITCH MUST BE ALIGNED SO THAT THE FLOW IN THE PIPE IS IN THE SAME DIRECTION AS THE ARROW ON THE SWITCH BODY.

Important notes: The correct pipe-sealing compound must be used for sealing metal to plastic threads. The sealant used must be recommended for use on plastic as some sealant products can damage plastic over time which may in turn result in a leak. LeakSafe recommend PTFE tape for use with the plastic Flow Switch.



Please also note that great care must be taken when tightening both the plastic Flow Switch and the water Valve. Do not hold the blue Valve motor assembly while assembling.

Programming the Water Valve Control Unit

To open the Water Valve Control remove the catch cover on the top of the unit and press down on the catch to remove the front panel. Install the 4 x AA batteries in the battery compartment as indicated and fix to the casing with the velcro strips provided as shown below.

Program the preferred water shut off from the last time water was used by positioning the DIP switches as follows. Default is set to 24 hours:

DIP 1	ON	1 hour delay before the water valve will shut.
DIP 2	ON	2 hour delay
DIP 1 & 2	ON	4 hour delay
DIP 3	ON	6 hour delay
DIP 1 & 3	ON	12 hour delay
DIP 2 & 3	ON	18 hour delay
DIP 1, 2 & 3	ON	48 hour delay
DIP 1, 2 & 3	OFF	24 hour delay (default)



Installing the Water Valve Control Unit

Before mounting the Water Valve Control, test by connecting the Valve connecting cable into the right hand port on the bottom of the unit. Press and hold the CLOSE button for 2 seconds and the valve will close. Whilst the valve is operating the “Low Battery” LED will flash and the unit will beep for approx. 10 seconds. Wait until this sequence is finished before pressing and holding the OPEN button for 2 seconds to open the valve again. The “Low Battery” LED will flash and the unit will beep for approx. 10 seconds. Unplug the valve before you mount the Water Valve Control.

In the rear panel of the control unit are two enlarged screw holes for fixing the unit to a wall or similar surface. The unit can be fixed in a horizontal or vertical position.

Once the Valve Control unit is mounted, plug the Valve connecting cable into the right hand port on the bottom of the Water Valve Control and plug the Flow Switch connecting cable into the left hand port.

Operating Instructions

Once installed FlowGuard is an automatic system.

If the property is left unoccupied for more than 24 hours (default) the valve will automatically close and the water is switched off. When the property is re-occupied, switch the water on again by pressing the OPEN button on the Water Valve Control.

NOTE: Although FlowGuard operates automatically, LeakSafe recommend that the water is switched off manually when the property is being vacated by pressing the CLOSE button on the Water Valve Control. This provides extra protection as there will be no mains pressure during the 24 hour period when otherwise the FlowGuard unit would be determining whether the property is unoccupied.

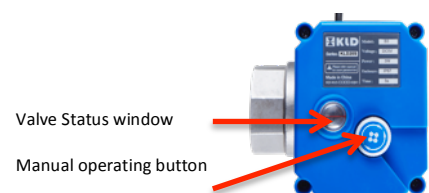
Once a week FlowGuard performs an automatic decalcifying routine consisting of a half turn of the valve. This ensures the valve remains fully operational even in hard water areas.

Manual Override on the motorized valve

The manual operating button is located on the top of the valve enclosure.

To operate, lift the button and turn it to operate the valve.

As the valve moves the red line visible in the valve status window will also move. When the valve is open the red line is parallel to the water pipe and when closed is at right angle



Maintenance

LeakSafe recommend that the FlowGuard system is checked every 6 months. Choose a time when the property has been unoccupied for 24 hours and check to make sure that the valve has closed and the water is switched off.

LeakSafe recommend that the 4 x AA batteries in the Water Valve Control are replaced every 6 months. The Water Valve Control includes a low-level battery alarm. If battery power falls below 25% of normal level the "Low Battery" warning light will flash on the Valve Control Unit and an audible beep is emitted.

Further information and FAQs are available at www.leaksafe.com/support.