

FireSense



# FireSense

FIRE ALARM EQUIPMENT



**Water Conservation**



**Water Flow Monitor**



**Live Service Tools**



# Water Flow Monitoring



SSW-WFDT Flow Switch - T-Tap



WFD Series Flow Switch

### Sprinkler Flow Switch

System Sensor WFD series sprinkler flow switches consist of a rugged, weatherproof enclosure. Designed for both indoor and outdoor use, the WFD series operates across a wide temperature range.

The WFD series incorporates a mechanical retard feature, which minimises the risk of false alarm due to pressure surges or air trapped in the sprinkler system. In addition, the mechanical retard's unique sealed design is immune to dust and other contaminants.

UL, FM and ActivFire Listed



EPS Series Pressure Switch

### Sprinkler Pressure Switch

System Sensor pressure switches are designed for use in wet or dry sprinkler systems and are suitable for indoor or outdoor use. 3 different models are available to cater for typical pressure adjustment ranges.

All pressure switches are rated for up to 250 PSI continuous operation. Each pressure switch is factory preset to suit typical applications and can be easily adjusted on site without the use of special tools.

Single or dual contact models are available and can be used for switching voltages up to 240VAC.

Dual contact models provide a high and low pressure contact output.

SSW-OSY2 Tamper Switch



### Tamper Switch

The OSY2 & PSP1 tamper switches consist of a rugged housing, intended for indoor and outdoor use. The OSY2 features a user friendly mounting bracket and adjustable shaft to permit mounting to most OS&Y valves, ranging in size from 1" to 12".

The OSY2 is equipped with tamper resistant cover screws to prevent unauthorised entry. Inside, two sets of changeover contacts are enclosed for connection to FIP.

The PSP1 anti tamper switch is used on non rising stem gate valves and ball and angle valves. It features a 360° versatile mounting design and an adjustable length cord to accommodate all installations.

The PSP1 employs a supervisory cord which, when pulled out, closes a set of normally open contacts. A lockout feature prevents reinsertion of the cord until the cover is removed, and the unit is reset. Removal of the cover or cutting of the cord results in an open circuit.

### Water Motor Alarm

The water motor alarms are mechanical devices actuated by a flow of water.

They are designed to sound a continuous alarm while a sprinkler system operates.



VIK-GONG Water Motor Alarm

SSW-PSP1 Tamper Switch



# Water Conservation Products: Zonecheck & Bellcheck



## Zonecheck

The 'new build' Zonecheck is factory assembled and tested complete with medium wall pipe with roll grooved ends for simple site installation.

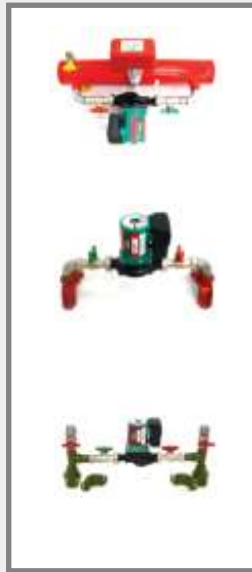
### Zonecheck retro fit

Permits installation of Zonecheck to existing flow switches in existing buildings.

### Zonecheck Live

Zonecheck Live is ideal for retro-fitting a new Zonecheck to an existing flow switch without draining down.

100% Water Saving. Saves up to 300L of water per test  
 Accurately represents 1 sprinkler head in operation  
 Consistent flow rate irrespective of system pressure  
 No fire pumps operate. Saves time during testing  
 No new oxygenated water is introduced into the system  
 Prevents pressure fluctuations during test  
 No Drain required  
 UL, FM, LPCB, VdS Approved - ActivFire Listed  
 Meets requirements of AS2118, AS 1851 &  
 "Hb233-2008 Fire Protection - Water Conservation Handbook"



## Zonecheck® Automatic Flow Switch Tester

Zonecheck is a world wide patented product that uses a closed loop system to recirculate water around the flow switch to simulate one sprinkler head in operation without the need to discharge any water from the system.

AS1851 requires flow switches installed in a sprinkler system to be tested 6 monthly. (FM Global requires this test monthly). During a traditional flow switch test, water is discharged from the down stream end of the pipe. This causes water to flow past the flow switch, causing it to operate.

The Zonecheck system is the modern way to carry out this important test quickly, efficiently and inexpensively with zero water wastage.

Zonecheck provides a true and accurate test of the flow switch and saves up to 300 litres of water per test (dependant on flow switch retard setting). The ZoneCheck pump has a flow control orifice which accurately represents just one sprinkler head in operation, irrespective of current system pressure, which is the only true way to test the effective operation of a flow switch as it was manufactured and approved.

As no water is discharged from the system, the system pressure remains unchanged, therefore no fire pumps operate and there is no need to perform pressure switch/brigade isolations or recharge the system before during or after the tests. This makes testing a much simpler process than any other method, so tests can easily be performed on a more regular basis with no system interruption, while ensuring correct system operation at all times.

Zonecheck is simple and easy to install and comes as a complete pressure tested unit with pump, flow switch, and pipe with rolled groove ends for ease of installation. Retrofit and LiveTap versions are also available for existing installations.

Zonecheck is the recommended solution for 100% water saving on flow switch testing as per HB233-2008 "Fire protection Systems Testing - Water Conservation Handbook" and meets all requirements of AS2118 and AS1851.

## Bellcheck Automatic Sprinkler Alarm Tester

BellCheck is an automatic alarm valve test system that significantly reduces water wastage when undertaking weekly testing to meet the requirements of AS1851:2005.

The only water discharged with BellCheck is the water used to test the alarm gong. This results in a water saving of over 90% compared to the traditional method of testing an alarm valve.

BellCheck is the only approved system designed to simulate exactly one sprinkler head in operation regardless of the system pressure.

The practical benefit of BellCheck, over and above code compliance, is to accurately ensure that in the event of discharge of just one sprinkler head that the building owner can be 100% sure that the sprinkler alarm valve will activate.

By the simple operation of a key switch, the BellCheck pump recirculates water from above the alarm valve to below the alarm valve causing the alarm valve to lift simulating the exact operation of one sprinkler head.



Bellcheck

- ✓ 90% Water Saving
- ✓ Saves up to 175L of water per test (9,100L per year)
- ✓ Accurately represents 1 sprinkler head in operation
- ✓ Consistent flow rate—Irrespective of system pressure
- ✓ No fire pumps operate
- ✓ No new oxygenated water is introduced into the system
- ✓ Saves time during testing
- ✓ VdS Approved
- ✓ Meets requirements of AS2118, AS1851 and Hb233 - 2008 Fire protection - Water conservation Handbook"



# Solenoid Test Valves And Assemblies



Asco Solenoid Valve  
24VDC 15mm or 20mm  
with Manual Override



Burkert Solenoid Valve  
24VDC 15mm or 20mm with  
optional Manual Override

## Solenoid Valves

FireSense solenoid valves are high quality valves suited for sprinkler solenoid test applications.

Valves are normally closed and are designed to withstand pressures up to 230PSI. Electrical activation is via a 24VDC solenoid coil mounted directly to the valve. Solenoid valves are available in 2 sizes. The MO Option provides a manual override function to test water flow without electrical activation.

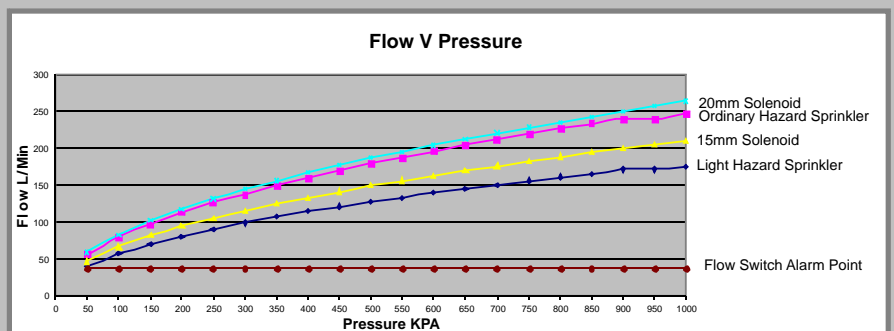
It is highly recommended that solenoid test valve are NOT used for draining down of sprinkler systems to prevent contamination of the solenoid valve from pipe debris. If a drain down point is required we recommend a bypass assembly.

Solenoid Assembly connects to the main sprinkler pipe via a 1" BSP union fitting. A lockable 3/4" valve is in line with the solenoid valve and removable filter element. A lockable 1" bypass valve is provided for system drain downs if required. Solenoid Assembly then connects to a fixed drain point via a 1" BSP union fitting.

Solenoid assemblies are factory assembled, pressure tested and available to suit all ASCO and Burkert solenoids.



Solenoid Valve Assembly with bypass valves and filter



# Livetap Under Pressure Drilling System



LiveTap is a major innovation, allowing live modifications to sprinkler systems.

The LiveTap under pressure Drilling concept has been developed to reduce sprinkler system drain downs when performing modifications & additions to live sprinkler systems.

This means that fire protection is maintained at all times even when refurbishment work is being undertaken. Consequently there is no need to advise Fire Authorities, alert insurers or close the building while work is in progress.

No system drain down is required.



## Functional Principle:

1. The connector is first installed in a suitable location on an existing fire sprinkler branch.
2. New sprinkler pipe work and heads are routed and fixed to the new connector.
3. The new pipe work is filled and pressure tested.
4. The LiveTap drill is then fed through the connector and drills into the sprinkler pipe in minutes.
5. The drill is then withdrawn and the valve is closed and capped permanently.
6. The metal coupon is retained in the drill and swarf is captured by a magnet.



Livetap Drill  
25mm and 50mm

## Livetap Product Range:

### Zonecheck Live

Engineered to simplify the retrofitting on ZoneCheck to an existing flow switch without draining down.

### Kwik Drain

Add a drain connector in the most beneficial location on the system without draining down.

### Kwik Vent

Add a system venting point or pressure gauge where it is most beneficial without draining down.

### No Drain T

Add a 50mm branch Tee (without an inline valve) without draining down. Allows the 'live' installation of additional sprinklers.



Livetap Drill Kit and accessories





# FireSense

FIRE ALARM EQUIPMENT

FireSense is a specialist supplier of Electronic Fire Alarm and Sprinkler equipment to installation companies.

With over 20 years experience, FireSense provides comprehensive technical and commercial support to it's customers from tendering to installation and commissioning

FireSense prides itself on technical expertise, competitive pricing, prompt delivery of most items ex stock and good old fashioned Service.

#### ***The FireSense Difference ....***

- ✓ Personalised service
- ✓ Fast, efficient delivery of goods
- ✓ Programming and onsite technical assistance as required.
- ✓ Custom built panels a speciality
- ✓ Prompt and competitive quotations
- ✓ Independently owned and operated.

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