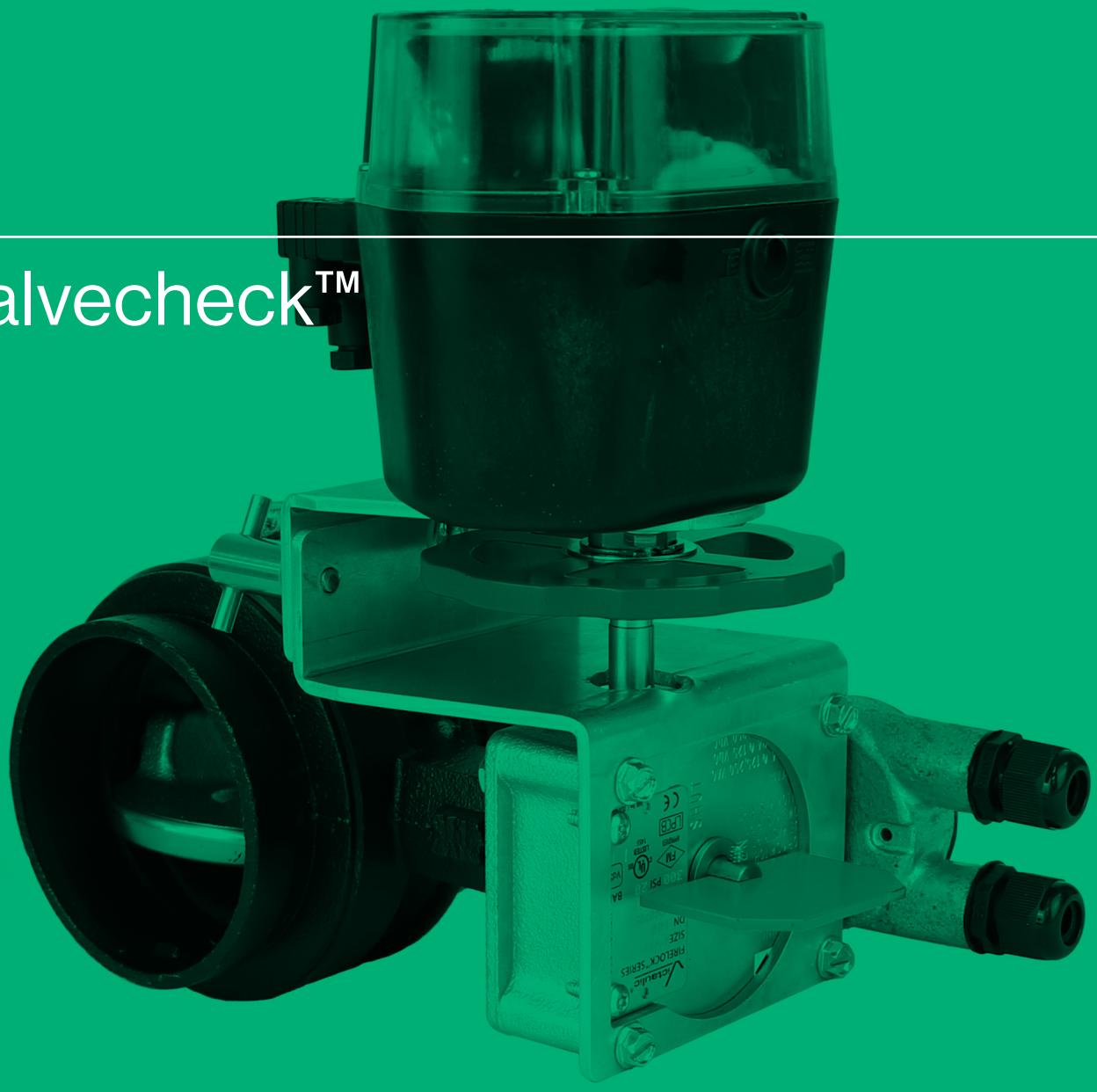
Automated zone valve testing and monitoring

Valvecheck™



PROJECT FIRE®

Monitors for correct position and automatically exercises the valve for full compliance with LPC rules.

The only approved fire sprinkler alarm, monitoring and automated testing system.

Closed control valves are the leading cause of sprinkler system failures, fire codes require them to be inspected routinely (see overleaf). Valvecheck allows the remote and automatic testing of zone valves for their correct operation and position.

We see this as a major step forward in providing automated testing and monitoring for a sprinkler system, as now with the inclusion of this functionality (combined together with our current Zonecheck system) no regular access is required to sprinkler components in remote locations in the building.

AUTOMATED TESTING
Our solution will operate and fully exercise the valve, either on a daily, weekly or monthly basis, dependant on the requirement and configuration of the Zonecheck Addressable system. During a test, the controller will constantly be monitoring the position of the valve, and is stopped at the calibrated fully closed point before being automatically opened after that.

The system has the vital benefit of being a fail-safe 'open' actuator with an internal battery supply that will ensure that the valve is always in the open position under normal circumstances.

ZONE VALVES MUST BE EXERCISED QUARTERLY BUT ARE OFTEN HARD TO ACCESS, AND SO, LEFT, UNTESTED AND IN THE INCORRECT POSITION, RENDERING THE SPRINKLER SYSTEM INOPERABLE.

Product benefits

OPEX SAVINGS

Keep operational costs down with Valvecheck's automated routine testing, reducing overall facilities management requirements.

AUTOMATED MANAGEMENT

The controller takes care of testing routines for you exercising the valve and checking for correct position.

SYSTEM MONITORING

Pro-active monitoring of a building's isolation valves.

NO ACCESS REQUIREMENTS

Often zone valves are positioned in difficult, hard to reach places, with Valvecheck, no regular contractor access is required to remote locations in the building.

CODE COMPLIANT

Easy compliance with Fire Codes and Regulations regarding the quarterly operation and exercising of stop valves (BS EN12845 20.3.2.7).

FAIL SAFE

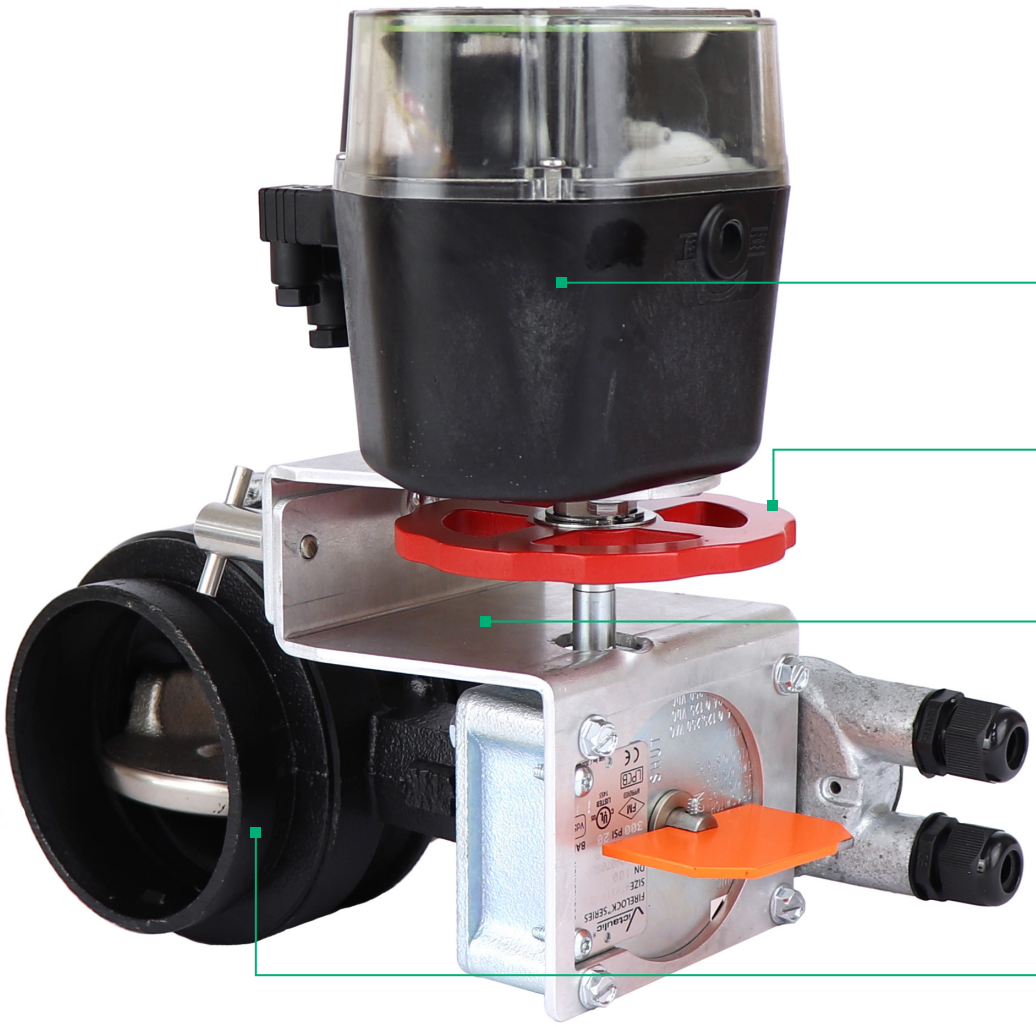
The actuator has an internal battery that will always ensure the valve is in the open position, even in the event of power loss.

Many zone valves are located at high level or behind ceiling structures, which makes the mandatory quarterly test expensive and disruptive. Forming part of our addressable system, Valvecheck automates the process of closing and opening every zone valve ensuring that the correct fault signal is received and registered.

Valvecheck consists of an electronic actuator that attaches to a standard sapag butterfly valve via a specially designed bracket. The bracket can also be retro-fitted to existing valves depending on the model and is removable in case a manual override is required.

ALL STOP VALVES CONTROLLING THE FLOW OF WATER TO SPRINKLERS SHALL BE OPERATED TO ENSURE THAT THEY ARE IN WORKING ORDER, AND SECURELY REFASTENED IN THE CORRECT MODE. THIS SHALL INCLUDE THE STOP VALVES ON ALL WATER SUPPLIES, AT THE ALARM VALVE(S) AND ALL ZONES OR OTHER SUBSIDIARY STOP VALVES.

BS EN12845 20.3.2.7 STOP VALVES (4 TIMES A YEAR)



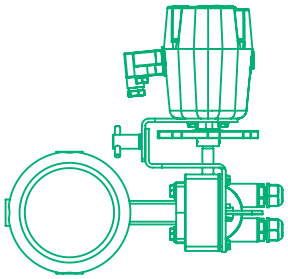
CODE COMPLIANCE

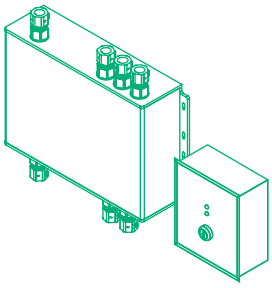
Quarterly exercising of all control valves is a requirement of BS EN 12845 20.3.2.7 Stop valves and NFPA 25 N 13.3.2.1.2. Our addressable system is approved to UL standards.

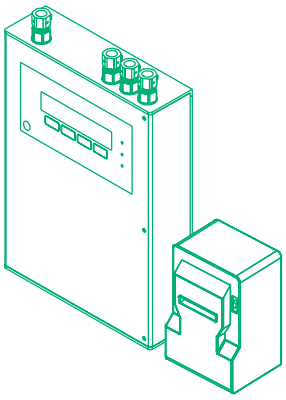
ADDITIONAL INFORMATION

Valvecheck is an add-on to our wider addressable sprinkler testing and monitoring system, and can be combined with Zonecheck to fully automate the quarterly testing of flow-switches and local zone valves. It can also be installed without the flow-switch testing option.

System components







VALVE & ACTUATOR

50 - 150MM

The actuator exercises the local monitored valve automatically as per code standards. You can also remotely control the zone valve from the controller.

INTELLIGENT MONITORING MODULE/KEY-SWITCH

Each Valvecheck requires its own IMM or key-switch. IMM's initiate testing and monitors the position of the valve, relaying it's status to the controller.

CONTROLLER & PRINTER

Every IMM is wired in a looped system back to the controller. From here you can manage the entire system. An optional printer provide test results for proof of compliance.

EXTINGUISHING RISKS WITH PRODUCT INNOVATION. FOR MORE DETAILS GET IN TOUCH WITH A MEMBER OF OUR TEAM.

Designed and manufactured in the UK by Project Fire Products Ltd.

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