



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2413	12-Mar-2010	Number 11	Issue date 26-Apr-2019	30-Apr-2020

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Product designation

Project Fire Products, Bellcheck™, automatic alarm valve test system

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

FireSense Pty Ltd
18-20 Brookhollow Avenue, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Registrant

Project Fire Products Limited
Pasturefields Lane Industrial Estate, HIXON, STAFFORDSHIRE, UNITED KINGDOM, ST15 8RR

Producer

Project Fire Products Limited
Pasturefields Lane Industrial Estate, HIXON, STAFFORDSHIRE, UNITED KINGDOM, ST15 8RR

Conformance criteria and evaluation

The Project Fire Products, Bellcheck™, automatic alarm valve test system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. German European Standard DIN EN 12259-2:1999, 'Fixed firefighting systems - Components for sprinkler and water spray systems - Part 2: Water alarm valve assemblies' incl. DIN EN 12259-2:1999 A2:2005 / DIN EN 12259-2:1999 A1:2001.
2. Technical rule VdS 2344en : 2005-12, 'Procedure for testing, approval and evaluation for conformity of equipment, components and systems for fire protection and security technologies'.
3. Verband der Schadenverhütung - Evaluation and approval, 'Vds approval'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

(Limitations/conditions of conformance continue)

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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- i. Fire sprinkler equipment, system design and installation should be determined and verified in accordance with the performance and prescribed requirements of the regulations, standards and criteria as specified by the building code and authorities having jurisdiction. Due considerations include the occupancy fire loading, sprinkler location, coverage, response, hydraulic characteristics and other specified requirements relevant to the conformance and effectiveness of the equipment and installed system.
- ii. Specific or special requirements in relation to this product must be considered and included in the system design and installation.

Producer's description

The Project Fire Products, Bellcheck™, automatic alarm valve test system is designed to save water that is discharged in the course of routine fire sprinkler system alarm valve testing.

The only water used with this equipment is that which is discharged when the alarm gong activates with a resulting usage of approximately 25 litres of water per valve set per test. Regardless of the operating pressures of the sprinkler installation this equipment is designed to prove an alarm to simulate one sprinkler head in operation, with no excessive flow condition.

In the event of an accidental system operation and discharge from only one sprinkler head, then with sprinkler systems fitted with this equipment the building owner has assurance that there will be an immediate alarm activated and be able to minimise any resulting water damage.

Operating principles

In the event of a fire, the sprinkler head operates and water escapes from the system. As the water escapes, the clap in the alarm valve is no longer forced down and lifts. This allows water to flow and operate the alarm gong.

Flow and pressure switches act as a further means of sounding the alarm and provide an electrical signal to the fire alarm panel as they detect increases in water flow and pressure respectively.

The Project Fire Products, Bellcheck™, automatic alarm valve test system tests all three of the above systems, by simulating the flow of one sprinkler head in operation. It works by pumping water from the chamber above the alarm valve, to the chamber below the alarm valve. The pressure under the clap increases, causing it to lift. This activates the motor alarm gong and the pressure switch. This equipment also has an additional flow switch check facility.

Technical specification

The following details are a representative extract of the technical specification for the Project Fire Products, Bellcheck™, automatic alarm valve test system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Working pressure rating	1483 kPa (215 psi) maximum
Operating temperature range	0°C - 49°C

Electrical specifications:

Circulation pump

Operating voltage	240v AC 50Hz
Full load current	0.88 amps
Power rating	185 watts
IP rating	IP43
WP rating	175 psi

Key switch operator panel

Supply voltage	240v AC 50 Hz
Ambient temperature	0°C - 40°C

Part designation	Part code
Bellcheck stand alone valve set	BC-S 150
Bellcheck single valve & by-pass	BC-B 150
Bellcheck dual valve & mon. panel	BC-D 150

References:

Vds Certificate of Approval:

G 4090015

Technical data sheet:

Project Fire Products technical specification BC-TS