

Inspection Certificate

Project: **Rotork IQT3 Size 1 System-ER2 - Fire Endurance Test** Office: **Birmingham**

Client: **Fire Protection Coatings Ltd**
Address: **Units 1-3 Highway Point, 239 Torrington Avenue,
Coventry, CV4 9AP** Date: **14 February 2021**

Client's Order Number: **EO6970 (on Lloyd's Register EMEA)** Order Status: **Complete**

Inspection Dates
First: **19 January 2021** Final: **19 January 2021**

This certificate is issued to

Fire Protection Coatings Ltd., to certify that the undersigned surveyor did at their request attend at the premises of Akzo Nobel at Stoneygate Lane, Felling, Gateshead, Tyne & Wear, United Kingdom, NE10 0JY. for the purpose of witnessing a fire endurance test on the item listed below:

Description:

1-off (one) Rotork IQT3 Size 1 Fireproof Actuator (ER2 intumescent epoxy coating).

Scope:

The purpose of the test as to demonstrate that the above noted actuator would continue to function after 30 minutes in a furnace simulating conditions of a hydrocarbon fire with reference to UL 1709.

1. 240/1/50 electrically operated actuator placed in a gas fired furnace. 5x 'K' Type bare wire thermocouples used to monitor the chamber temperature together with 2 further thermocouples measuring the actuator terminal cover and electronics. Conditions inside the furnace, monitored via a visual display unit that formed part of the control system, were recorded on a multi-channel data logger.
2. Witnessed operation of actuator inside furnace before commencement of test.
3. Furnace heated generally in accordance Small-Scale Test Method of UL1709: Aug 2011 representing hydrocarbon fire conditions to comply with the time/temperature heating curve of Figure 3.1
4. Witnessed actuator operation during test by means of a remote electrical control unit at 5 minute intervals for the first 25 minutes and at 1 minute intervals thereafter.
5. Actuator observed to continue to function at 51 minutes from the start of the test under the above test conditions. Test halted at 51 minutes when critical temperature of 132 Deg.C reached in the terminal cover.
6. Reviewed and endorsed FPCL Fire Test Report Number:EP416 Revision 1.0 dated 29/01/2021.

Equipment Calibration:

Furnace temperature measured by calibrated bare-wire type K thermocouples supplied by Akzo Nobel Test House.

Marking / Identification:

Actuator Serial No. ZB08530102.

Conclusion statement:

The controls indicated that the IQT3 Size 1 Actuator functioned for greater than 30 minutes under the test conditions and was considered to satisfy the test acceptance criteria.



David Paget
14 February 2021
PRJ11100292907
Birmingham

LR1101 2016.05

David Paget
Surveyor to Lloyd's Register EMEA
A subsidiary of Lloyd's Register Group Limited

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.