

CERTIFICATE OF CONFORMITY




- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM20US0022X
- Equipment:** Electric Control Valve Actuators
(Type Reference and Name) Models CVLa and CVQb
- Name of Listing Company:** Rotork Controls Inc
- Address of Listing Company:** 675 Mile Crossing Blvd
Rochester NY 14624,
United States
- The examination and test results are recorded in confidential report number:

3035072 dated 24th April 2009
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2018, FM Class 3610:2010, FM Class 3615:2018,
FM Class 3810:2018, ANSI/UL 61010-1:2012, ANSI/NEMA 250:1991,
- If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
- This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
- Equipment Ratings:**

Explosionproof for Class I, Division 1, Groups B, C and D; Dust-ignitionproof for Class II, Division 1, Groups E, F and G; Class III, Division 1; AIS CLI, Div. 1, Groups A, B, C and D hazardous (classified) locations, indoors and outdoors (Type 6) with an ambient temperature rating of +60°C.

Certificate issued by:



J. E. Marquedant
VP, Manager - Electrical Systems

30 July 2020

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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11. The marking of the equipment shall include:

Class I Division 1, Groups B, C, D; T4 Ta = +60°C; Type 6

Class II, Division 1, Groups E, F, G, Class III, Division 1; T4 Ta = 60°C; Type 6

AIS Class I, Division 1, Groups A, B, C and D; T4 Ta = 60°C; Type 6

12. **Description of Equipment:**

General - The Electric Control Valve Actuator is a two-compartment enclosure, it is comprised of an electrical compartment and a terminal compartment. The electrical compartment is formed from an enclosure base and lid. The lid is secured by six M10 stainless steel A4-80 socket cap head screws. The electrical compartment lid includes a viewing window manufactured from LEXAN 943A (f1). The window screws into the enclosure lid from the inside. The terminal compartment provides all electrical field wiring terminations, cable entry facilities are provided in the form of four threaded 3/4NPT (or M25 x 1.5P) entry points. The terminal enclosure is closed by means of a lid. The terminal enclosure lid is secured by four retained M10, stainless steel, grade A4-80 socket cap head screws. A nitrile O-ring is provided between the terminal enclosure lid and the enclosure.

Ratings - The Electric Control Valve Actuator operate at a supply voltage of 240V rms, secondary voltage is 24 VDC, while voltage at the user terminals is 120V rms. The actuators are rated for use in an ambient temperature of +60°C.

CVLa, Linear Electric Control Valve Actuator.

CVQb, Quarter Turn Electric Control Valve Actuator.

a = Size 500, 1000 or 1500.

b = Size 1200 or 2400.

Non-model code options include: Intrinsically Safe I/O's, Hart, Foundation Fieldbus, Modbus, Profibus, Devicenet and Pakscan network interfaces, and Reserve Power Pack Assembly:

13. **Specific Conditions of Use:**

1. When the operational intrinsically safe interface is fitted, terminal 3 and 6 are intended for the connection of cable screens only

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History**

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Details of the supplements to this certificate are described below:

Date	Description
24 th April 2009	Original Issue.
30 th July 2020	<u>Supplement 6:</u> Report Reference: PR451846 dated 30 th July 2020. Description of the Change: examination and testing of the new gearbox casting design. Reviewed and updated FM standards, updated certificate to new format.

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