

CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM17US0292X
- Equipment:** D510, D516, D520 and D526 Valve Position Transmitter
(Type Reference and Name)
- Name of Listing Company:** Westlock Controls Corporation
- Address of Listing Company:** 280 N Midland Ave, Ste 258
Saddle Brook NJ
07663
United States
- The examination and test results are recorded in confidential report number:

3054283 dated 24th March 2016
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

Class 3600:2022, Class 3615:2022, Class 3616:2022, Class 3810:2005,
ANSI/ISA 60079-0:2013, ANSI/ISA 60079-1:2013, ANSI/ISA 60079-31:2013,
ANSI/NEMA 250:2014, ANSI/IEC 60529:R2011
- 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.

Certificate issued by:

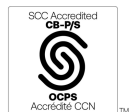
J.E. Marquedant
VP, Manager - Electrical Systems

30 January 2023

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



SCHEDULE



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10. Equipment Ratings:

Explosionproof for Class I, Division 1, Groups B, C and D, T5; Dust-ignitionproof for Class II/III, Division 1 Groups E, F and G, T5; Flameproof for Class I, Zone 1, AEx db IIB+H2 T5 Gb; and Protection by Enclosure for Zone 21, AEx tb IIIC T88°C Db hazardous (classified) locations, indoors and outdoors (Type 4, 4X, IP66 / IP67) with an ambient temperature rating of Ta = -50°C to +85°C.

11. The marking of the equipment shall include:

Class I, Division 1, Groups B, C, D; T5 Ta = -50°C to +85°C; Type 4, 4X, IP66/67

Class II, Division 1, Groups E, F, G, Class III, Division 1; T5 Ta = -50°C to +85°C; Type 4, 4X, IP66/67

Class I, Zone 1, AEx db IIB+H2 T5 Gb Ta = -50°C to +85°C; Type 4, 4X, IP66/67

Zone 21, AEx tb IIIC T88°C Db Ta = -50°C to +85°C; Type 4, 4X, IP66/67

12. **Description of Equipment:**

General - Models D510, D516, D520 and D526 are two-wire transmitters designed to convert a valve position into a 4-20 mA output signal. The device consists of two explosionproof enclosures. The main (larger) housing contains the electronic module which contains four printed circuit boards, one hall sensor printed circuit board and one non-instructive calibration printed circuit board. The smaller housing contains field wiring printed circuit board. The D510 and D516 models differ from the D520 and D526 models in that the D510 and D516 enclosure covers are provided with a window, while the D520 and D526 enclosure covers are not provided with a window.

Construction - The Models D510, D516, D520 and D526 Valve Position Transmitters consists of two compartments constructed with either aluminium or stainless steel material. The field wiring enclosure housing is connected to the main enclosure housing, both with thread-on covers. An optional valve assembly is connected to the main enclosure housing consisting of a cylindrical joint. The enclosures are provided with metric and NPT openings.

Ratings - The Models D510, D516, D520 and D526 Valve Position Transmitters operate at 18 - 24 Vdc with an output range of 4 - 20 mA. The transmitters are rated for use in an ambient temperature range of -50°C to +85°C.

D510-abcd, D516-abcd, D520-abcd and D526-abcd. Valve Position Transmitter.

a = Application Type: LV, LR, RO or RR.

b = ESD/PST Diagnostics: 0, 11, 1N or 1B.

c = Optional Approval: F.

d = Conduit Options: 1 or 2.

13. **Specific Conditions of Use:**

1. Consult the manufacturer if dimensional information on the flameproof joints is necessary.
2. The powder coated surface of the D510, D516, D520 or D526 Series Valve Position Transmitter may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Cleaning of the painted surface should only be done with a damp cloth
3. Only the Emerson Cuming 2651 Epoxy shall be used on the D510, D516, D520 or D526 Valve Position

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Transmitter when used in a Class I, Division 1 hazardous (classified) location.

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

Details of the supplements to this certificate are described below:

Date	Description
24 th March 2016	Original Issue.
27 th November 2017	<u>Supplement 1:</u> Report Reference: RR210674 dated 14 th November 2017. Description of the Change: Addition of stainless steel enclosure models D516 and D526, and new certificate format.
30 th January 2023	<u>Supplement 2:</u> Report Reference: PR463310 dated 30 th January 2023. Description of the Change: Where possible, standards have been updated to the latest reaffirmed dates or where no technical differences exist between editions. Other minor documentation and model code changes not affecting the equipment safety.

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