

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM20US0160X
3. **Equipment:** Valve Position Monitor
(Type Reference and Name) ITT ISP Series Valve Position Monitor
4. **Name of Listing Company:** Neles USA Inc. dba StoneL
5. **Address of Listing Company:** 26271 US Hwy 59
Fergus Falls MN
56537
United States
6. The examination and test results are recorded in confidential report number:

PR457726 dated 5th April 2021
7. 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 3611:2018, FM Class 3810:2018, ANSI/UL-121201:2017, ANSI/ISA-61010-1:2012, UL 50:2015, UL50E:2020, ANSI/IEC 60529:2004
8. 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.
9. 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

5 April 2021

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

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SCHEDULE



US Certificate Of Conformity No: FM20US0160X

10. Equipment Ratings:

Nonincendive electrical apparatus for use in Class I, II, III, Division 2, Groups A, B, C, D, F and G; Temperature Class is T6, Tamb = -10°C to +50°C; and Class I, Zone 2, IIC T6 Tamb = -10°C to +50°C; Hazardous (Classified) indoor Locations; Type 6; IP65, IP67.

11. The marking of the equipment shall include:

NI Class I, II, III Division 2, Groups A, B, C, D, F, G; T6 Ta = -10°C to +50°C;
Class I, Zone 2, IIC, T6, Ta = -10°C to +50°C;
Type 6, IP65/67

12. **Description of Equipment:**

General –

The ITT ISP Series Valve Position Monitor is a monitoring and control device for ITT PureFlo and EnviZion valve actuators. The device senses the position of a magnet mounted to the actuator's indicating spindle. The sensor output is calibrated to the valve open and closed positions. Local position indication is provided by several LEDs. As an option, an internal 3-way solenoid valve is provided as a pilot valve to control the valve actuator. Calibration is automatic or semi-automatic, depending on the model. There is no need to adjust mechanical targets or linkages. The default local indication colors are red for valve-closed and green for valve-open. The colors can be reversed by the user. The ISP operates on 24 VDC or 30.5VDC nominal voltage. Electrical connection is provided by a M12 quick-connect which is secured by a plastic locking device requiring the use of a tool to remove. There is no user access to the interior of the housing. The ISP is filled with a sealing compound to protect against the intrusion of water and other contaminants.

Construction –

The circuits are located inside a polysulfone plastic housing with a translucent polycarbonate cover. All electronics are fully encapsulated in casting compound, clear urethane potting. This combination protects against the intrusion of water and dust and prevent user access to the interior of the housing.

Ratings –

Temperature range: -10°C to +50°C.

Electrical:

ISP-3W (18VDC to 30VDC) 1.8W Max
ISP-DN (11VDC to 25VDC) 2.0W Max
ISP-AI (26.5VDC to 31.6VDC) 2.05W Max.

Ingress protection rating:

Type 6, IP65/67

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ITT ISP-abcd-HZ Series Valve Position Monitor

- a = -AI, -3W, or -DN
- b = -SV, or blank
- c = -LS, or blank
- d = -BT, -BL, or blank

13. Specific Conditions of Use:

1. For indoor use only.
2. The enclosure is constructed of plastic which must be shielded from sources of sunlight or UV light.
3. The connector must be tool secured by use of aTurck lokfast® guard to ensure the connector cannot inadvertently disconnected which could cause sparking at the contacts.
4. Because the ISP is rated for Ingress Protection with the mating cordset attached, care must be taken when selecting the cordset to ensure it is rated by the manufacturer with equivalent Ingress Protection ratings to the ISP.

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
5 th April 2021	Original Issue.

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