



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CSA 14.0057X**

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Certificate history:

Status: **Current**

Issue No: 4

[Issue 3 \(2019-12-10\)](#)

[Issue 2 \(2016-12-02\)](#)

[Issue 1 \(2016-03-22\)](#)

[Issue 0 \(2015-04-02\)](#)

Date of Issue: 2020-04-28

Applicant: **Neles USA Inc.**
44 Bowditch Drive
Shrewsbury
Massachusetts MA 01545
United States of America

Equipment: **Electric Valve Actuators, Model VWX, LVWX, ADCWX and LADCWX Series**

Optional accessory:

Type of Protection: **Ex db**

Marking: **Ex db IIB T6 Gb**
Tamb: -20°C to +66°C

Approved for issue on behalf of the IECEx
Certification Body:

Dorin Stochitoiu

Position:

Technical Advisor

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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Manufacturer: **Neles USA Inc.**
44 Bowditch Drive
Shrewsbury
Massachusetts MA 01545
United States of America

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 7.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[CA/CSA/ExTR14.0062/00](#)
[CA/CSA/ExTR14.0062/03](#)

[CA/CSA/ExTR14.0062/01](#)
[CA/CSA/ExTR14.0062/04](#)

[CA/CSA/ExTR14.0062/02](#)

Quality Assessment Report:

[NO/DNV/QAR09.0008/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Electric Valve Actuators, consist of a painted die cast aluminium alloy, Grade A380, flameproof enclosures, which house a number of electrical components such as AC Motor, DC Motor, Solenoids, Switching Power Supply, Heater, Limit Switches, Relays etc. The large actuator enclosure (Model LVWX and LADCWX Series) comprises a main body and cover, which is secured with 8 (eight) M8 x 1.25 x 36MM socket head cap screws fasteners. The small actuator enclosure (Model VWX and ADCWX Series) comprises a main body and cover, which is secured with 8 (eight) M6 x 1.0 x 30MM socket head cap screws fasteners having a property class 12.9. There is an actuator bushing and shaft located at the bottom of the enclosure and an indicator and manual override bushing and shaft, provided in the cover. The enclosure may have up to two 3/4 " NPT threaded entries located in the side wall for use with suitably certified Ex d IIB Gb cable entry devices.

Note: Additional options with "UB", "UB1", "UB3", "UB5", "UB7", and "UB9" in the model number identify actuators with battery back-up.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The maximum constructional gap (ic = 0.038 mm) is less than required by Table 2 of IEC 60079-1:2014.
- Flameproof joints are not intended to be repaired.
- For replacement battery, use only VALVCON Part Number VCE00015 Lithium-ion battery pack.
- Cover captive screws Class 12.9, M8 x 1.25 x 36 mm socket head shall be used on LVWX and LADCWX Series and Class 12.9, M6 x 1.0 x 30 mm socket head shall be used on VWX and ADCWX Series.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

- Clarification to drawing details including paint thickness, tapped hole dimensions, shaft diameter, gear corner radius, general dimensions and reference to other certificate.
- Addition and conversion of drawings to new format.

Issue 2:

- Revision of the file to cover updated drawings.

Issue 3:

- Upgrade to the latest applicable standards. Marking is amended.
- Addition of ADC- Series coding.
- Addition of new power supply
- Addition of back-up battery. 'Specific Conditions of Use', and 'Product Description' are amended.
- Minor text changes, including company name.
- Drawing revision changes.

Issue 4:

- Change of the manufacturer name from "Metso Flow Control USA Inc." to "Neles USA Inc."