



# 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](http://www.iecex.com)

Certificate No.: **IECEx LCIE 15.0074X**

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Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2021-02-09)

Issue 0 (2016-05-03)

Date of Issue: 2022-01-24

Applicant: **VALPES**  
89, rue des Etangs  
ZI Centr'Alpes  
38430 Moirans  
**France**

Equipment: **Quarter-turn electric actuator - Type: VTX600.\*\*\*.\*\* and VTX1000.\*\*\*.\*\***

Optional accessory:

Type of Protection: **Ex db and Ex tb**

Marking: Ex db IIB T5 Gb  
Ex tb IIIC T90°C Db  
IECEx LCIE 15.0074X  
(Refer to attachment for full marking).

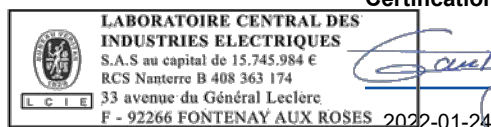
Approved for issue on behalf of the IECEx  
Certification Body:

**Julien Gauthier**

Position:

**Certification Officer**

Signature:  
(for printed version)



Date:

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

**Laboratoire Central des Industries Electriques (LCIE)**  
**33 Avenue du General Leclerc**  
**FR-92260 Fontenay-aux-Roses**  
**France**





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Manufacturer: **VALPES**  
89, rue des Etangs  
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38430 Moirans  
**France**

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

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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:

[FR/LCIE/ExTR15.0170/00](#)

[FR/LCIE/ExTR21.0002/00](#)

[FR/LCIE/ExTR21.0057/00](#)

Quality Assessment Report:

[FR/LCIE/QAR15.0010/06](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

These quarter-turn electric actuators are equipment which allow to open and close a valve.

The type designation depends on the maximal torque (N.m) that can be supplied by the apparatus:

- Type VTX600.\*\*\*.\*\*.\* : 600 N.m max;
- Type VTX1000.\*\*\*.\*\*.\* : 1000 N.m max.

These electrical actuators are protected by flameproof enclosure "d" and have a dust ignition protection "t". Types VTX600.\*\*\*.\*\*.\* and VTX1000.\*\*\*.\*\*.\* have the same flameproof enclosure.

The electrical actuator comprises of a worm-gear drive system rotated by an asynchronous motor which allows the operation of the valve. It notably includes a limit switch which stops the apparatus in the closing and opening positions of the valve (aperture angle: 90°; closing: 0°). An indicator mounted on the cover visually indicates the valve position.

(Refer to attachment for more details)

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment shall be equipped with suitably certified cable glands and blanking elements with a compatible type of protection for the intended use.
- Special fasteners used to fix the cover shall have at least a property class 12.9 (carbon steel). All others special fasteners used for the assembly of the parts of the flameproof enclosure shall have at least a property class A2-70 (stainless steel).
- Every information concerning the flameproof joints of the products are available on request. Please contact the manufacturer.
- The equipment shall be installed and used according to the instruction manual provided by the manufacturer. Removing of stop screws is strictly forbidden.
- Before any intervention on the actuator or around the actuator, to avoid any electrostatic discharge, the apparatus shall be cleaned with a damp cloth.
- The apparatus shall only be installed in areas of low mechanical impact risk.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

### **Issue 02:**

- Deletion of the option 2 (marine surface coating).
- Update of the range details.

### **Annex:**

[IECEx LCIE 15.0074X - Issue 02 - Annex 01 - Valpes\\_1.pdf](#)



# Annex 01 to Certificate IECEx LCIE 15.0074X issue 02



## MARKING

VALPES  
Address : ...  
Type : VTX600.\*\*\*.\*\*.\* or VTX1000.\*\*\*.\*\*.\*  
Serial number : ...  
Year of construction : ...  
Ex db IIB T5 Gb  
Ex tb IIIC T90°C Db  
IECEx LCIE 15.0074X

$-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +63^{\circ}\text{C}$

WARNINGS –  
DO NOT OPEN WHEN ENERGIZED.  
DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.  
POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

SELECTION OF CABLES AND CABLE GLANDS – SEE INSTRUCTIONS.

$U = \dots \text{ V}; P = \dots \text{ W}; f = \dots \text{ Hz}^{(1)}$

<sup>(1)</sup>: completed by electrical parameters.

## RANGE DETAILS

VTX * . * * * . * * . *									
<b>Maximal torque (N.m)</b> 600 1000					<b>Option 1</b> A = EPR.01.B B = EPR.1.B C = EPR.5.B D = EPR.10.B E = EPT.C F = EFC.2 T = Counter clockwise closing direction				
<b>Mounting</b> A = Female star 36 mm ; Flange connection F10/F12 (as per ISO 5211)					<b>Version</b> 00 = 3-points modulating mode F0 = 90° setup without mechanical stops F1 = 180° setup F7 = Specific customer setup for 2 position actuator				
<b>Operating time</b> 0 = Standard					<b>Duty rating</b> G = 50% (all models except 400 V) R = 50% (400 V models)				
<b>Voltage supply (motor)</b> 8 = 230 V 50 Hz 9 = 400 V three-phase									

## RATINGS

Voltage supply and frequency	230 VAC 50/60 Hz or 400 V three-phase 50 Hz
Power consumption	250 W
Operating time (rotation of 90°)	38 s
Maximum number of operation (open or close) per hour allowed	10
Duty cycle	50 %
Option (associated with the « option 1 » included in the range details of actuator)	<p>Option feedback signal with potentiometer integrated inside the housing to report valve position on a scale of 100, 1000, 5000 or 10000 Ohms for 90°: EPR.01.B (100 Ω), EPR.1.B (1 kΩ), EPR.5.B (5 kΩ) or EPR.10.B (10 kΩ).</p> <p>Option feedback with 5 kΩ potentiometer + transmitter 4-20 mA, 0-20 mA, 0-10V (Integrated transmitter inside the housing to report valve position with a signal from 4 to 20mA, 0 to 20mA or 0 to 10V for 90°): EPT.C.</p> <p>2 auxiliary limit switches (one for opening and one for closing), free of potential, for position feedback : EFC.2.</p>
Installation	<p>Vertical or horizontal.</p> <p>The installation of the actuator with the cover facing down is not allowed.</p>
Connection to the valve	<p>Flange connection for the attachment of quarter-turn actuator to valve: F10 / F12 (according to ISO 5211);</p> <p>36 mm square drive output (Female star).</p>
Threaded entries into the enclosure	2 x ISO M20 (or ½ NPT in option), intended for the mounting of certified cable glands or blanking elements.
Heating resistor	230 VAC - 10 W (Designation : ERT.230.B). By default, all the actuators are equipped with a heating resistor.

## ROUTINE TESTS

None.

## APPARATUS OVERVIEW

