

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

IECEx CML 20.0052X Certificate No.: Page 1 of 5 Certificate history:

Issue No: 8 Status: Current

Date of Issue: 2025-04-25

Applicant: Rotork Controls Ltd.

Brassmill Lane **BA13.IQ**

United Kingdom

IQT3 Range of Electric Valve Actuators Equipment:

Optional accessory:

Flameproof Ex "db", Increased Safety Ex "eb", Dust Ignition Ex "tb" and Non-Electrical Ex "h" Type of Protection:

Marking: Ex db h IIB T4 Gb Ex db h IIB T6 Gb Ex h tb IIIC T120°C Db Ex h tb IIIC T80°C Db

IP66/IP68 IP66/IP68

or when Ex e terminal facility is required or when Ex e terminal facility is required

Ex db eb h IIB T4 Gb Ex db eb h IIB T6 Gb Ex h tb IIIC T120°C Db Ex h tb IIIC T80°C Db

IP66/IP68 IP66/IP68

Ta marking options: Ta marking options:

-20°C to +70°C -20°C to +70°C -30°C to +70°C -30°C to +70°C -40°C to +70°C -40°C to +70°C -50°C to +40°C -50°C to +40°C

Approved for issue on behalf of the IECEx

Certification Body:

Position: **Assistant Certification Manager**

Signature:

(for printed version)

(for printed version)

25 Apr 2025

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Issue 7 (2024-11-01)

Issue 6 (2024-03-25) Issue 5 (2023-06-20)

Issue 4 (2022-03-09) Issue 3 (2021-11-21)

Issue 2 (2021-03-26)

Issue 1 (2020-11-17) Issue 0 (2020-06-01)

Certificate issued by:

Eurofins E&E CML Limited Unit 1, Newport Business Park New Port Road Ellesmere Port, CH65 4LZ **United Kingdom**







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Rotork Controls Ltd. Manufacturer:

Brassmill Lane Bath BA1 3JQ

United Kingdom

Manufacturing locations:

Rotork Controls, Inc. 675 Mile Crossing Blvd

Rochester NY 14624

United States of America

Ambattur Industrial Estate (North)

Chennai - 600 098

India

Rotork Controls (India) Private Ltd. Rotork Flow Technology (Suzhou)

Co., Ltd.

Building A, No. 88, Yinhe Road, Southeast Street, Changshu

Jiangsu 215558

China

See following pages for more 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

Edition:7.0

Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-1:2014

Edition:7.0

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

IEC 60079-31:2013

Edition:2

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

IEC 60079-7:2017 Edition:5.1

Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

ISO 80079-36:2016

Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and

Edition:1.0

requirements

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:

GB/CML/ExTR20.0061/00 GB/CML/ExTR20.0207/00 GB/CML/ExTR21.0073/00 GB/CML/ExTR21.0281/00 GB/CML/ExTR22.0030/00 GB/CML/ExTR23.0127/00 GB/CML/ExTR23.0298/00 GB/CML/ExTR24.0207/00 GB/CML/ExTR25.0061/00

Quality Assessment Reports:

GB/CML/QAR19.0012/03 GB/CML/QAR19.0023/02 GB/ITS/QAR24.0009/00 NL/CNEX/QAR24.0009/00 US/UL/QAR21.0007/03



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The IQT3 Electric Valve Actuator comprises an oil-filled spur/worm gearbox with handwheel and de-clutch mechanism, to which is attached an electrical enclosure and a terminal enclosure. Both these enclosures form an integral part of the gearcase and are designed to satisfy the requirements for flameproof equipment.

Refer to Certificate Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below: Refer to Certificate Annex for Specific Conditions of Use.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This issue introduced the following changes:

- 1. The addition of alternative radio modules to the existing WT12 Bluetooth module.
- 2. Update to permit end user's communication with actuator via mobile device App.
- 3. The removal of all references to nominal stats.
- 4. Clarification on the conditions of use on the battery shut-down module.
- 5. The addition of a 'Vandal-Proof' Extra Short Cover to the Bill of Materials.

Issue 2

This issue introduced the following change:

1. To include an alternative manufacturing location.

Issue 3

This Issue introduced the following changes:

- 1. To recognise a change to the name of the manufacturer of a material of construction.
- 2. To permit the up issuing of certification drawings in order to align drawing versions across corresponding ATEX, UKEX and IECEx certificates
- 3. To recognize an editorial change to drawings AD1399 and AD1414 regarding Ex e ring tags.

Issue 4

This Issue introduced the following changes:

- 1. To include the option for the heat pad to be disconnected.
- 2. Amendment to table in specific conditions of use to include IQT1500.

Issue 5

This Issue introduced the following change:

1. An alternative Bluetooth module, BT122 has been added to these equipment's in addition to the existing BT121, BT860 and WT12 Bluetooth modules.

Issue 6

This Issue introduced the following change:

1. Addition of the option to include 2, either RJ45 or M12 type ethernet connections modules within the actuators terminal housing.

Issue 7

This issue introduced the following modification:

1. Update to Manufacturing Locations.

Issue 8

This issue introduced the following modification:

- 1. The introduction of alternative bearings for low ambient temperature.
- 2. The introduction of new manufacturing site.



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Additional manufacturing locations:

Rotork Saudi Arabia Limited Building # 7413, Dhahran Industrial District, Dhahran 34521-2482, Kingdom of Saudi Arabia

Annex:

Certificate Annex IECEx CML 20.0052X Iss 8.pdf

Annexe to: IECEx CML 20.0052X, Issue 8

Apparatus: IQT3 Range of Electric Valve Actuators

Applicant: Rotork Controls Limited



Description

The IQT3 Electric Valve Actuator comprises an oil-filled spur/worm gearbox with handwheel and declutch mechanism, to which is attached an electrical enclosure and a terminal enclosure. Both these enclosures form an integral part of the gearcase and are designed to satisfy the requirements for flameproof equipment. In addition, the terminal enclosure is designed to satisfy the requirements for increased safety, providing an alternative method of protection for the field wiring facilities. The IQT3 Electric Valve Actuator comprises a range of electric actuators based upon two gearcase sizes, the flameproof enclosures are constructionally identical on both gearcase sizes.

The IQT3 Electric Valve Actuator is driven by a 24 Vdc, or in the case of the IQT3000 36 Vdc, permanent magnet motor which is controlled by an internal control circuit. The latter can be configured to accept various external power supplies ranging from three phase, single phase to 24 Vdc.

The permanent magnet dc motor is installed in the electrical enclosure by means of a motor cover, which has a spigoted flamepath joint and is secured by three M8 socket cap-head screws. The rotary output from the motor, transfers to the gearbox by means of a shaft supported in a rolling element bearing and a cylindrical brass flamepath bushing.

The dc motor is fitted with two 150°C thermal protective devices. There is a facility to override these devices should the user find it necessary. See Specific Conditions of Use.

An electrical cover connects to the gearcase by means of a spigoted flamepath joint and is secured by four M8 socket cap-head screws. In one end of the electrical cover a window is provided to allow the external observation of an internal LCD display. As well as the motor, the electrical enclosure contains monitoring and control circuitry and a battery. The monitoring and control circuitry controls the output speed and torque of the motor. It also senses and controls the position of the output shaft of the actuator by means of an encoder shaft. This shaft transfers to the gearbox by means of a cylindrical brass flamepath bushing.

The terminal enclosure connects to the electrical enclosure via the gearcase. The terminal enclosure incorporates a terminal bung, which comprises of a moulded main body, through which passes a number of terminals that are moulded in place. Optionally, in all deep cover versions, and compulsory in all increased safety versions; the terminal bung provides separation between the gearcase/electrical enclosure and the terminal enclosure.

The joint between the two parts forming a flamepath. The terminal enclosure provides all electrical field-wiring terminations at the terminal bung. Cable entry facilities are provided in the form of two or four threaded entries. The terminal enclosure is closed by means of a terminal cover which connects to the gearcase by means of a tapered spigot flamepath joint and is secured by four M8 socket cap-head screws.

Model Codes

The following gearcase options are covered by the scope of this certificate:

IQT50, IQT100, IQT125, IQT250, IQT500 and IQT1500

Quarter turn and multi-turn output option (designated IQT or IQTF respectively); Three phase, single phase and dc actuator power supply;

Modulating output duty cycle option (designated IQTM or IQTFM).







IQT1000, IQT2000 and IQT3000

Quarter turn and multi-turn output option (designated IQT or IQTF respectively); Three phase, single phase and dc actuator power supply; Modulating output duty cycle option (designated IQTM or IQTFM).

Design Options

Extra Alarm Relays

Fieldbus System Control Options

Network interface cards: Pakscan; Modbus; Profibus; Foundation Fieldbus; Devicenet.

Remote Control

Analogue Control – Folomatic; Analogue position feedback – CPT; Analogue torque feedback – CTT.

Deep Terminal Cover Option - All actuator sizes

The deep terminal cover allows the installation of a PCB for Network disconnect applications or a wireless network PCB and associated external aerial enclosure. The deep cover is provided with threaded entry points.

Intumescent Coating Option

The Intumescent coating is a fire-retardant coating which swells as a result of heat exposure increasing in volume and decreasing in density the effect of which is to insulate the actuator from fire allowing it to continue to operate.

Plug & Socket Cover/Plug & Socket Connection/Non-Flameproof Terminal Bung option - Ex db versions Gas Group IIB and Ex tb versions only, all sizes, Tamb -20°C to +70°C.

The flameproof terminal bung is removed and replaced with a non-flameproof Plug & Socket arrangement. To accommodate the plug and socket arrangement, a Plug & Socket Cover has been introduced, manufactured in aluminium alloy to BS1490, Grade: LM25M. The latter includes up to four M25 threaded cable entry points. Additionally, it can optionally accommodate the Network Disconnect PCB.

Optionally in place of the Plug & Socket Connection facility, a non-flameproof Terminal Bung can be installed along with the Plug & Socket Cover, with or without the Network Disconnect PCB.

Shutdown Battery Module Option

The Range of Electric Valve Actuators sizes IQT50, 100, 125, 250, 500, 1000, 1500 and 2000, (IQT, IQTF, IQTM and IQTFM Types as applicable), ambient temperature range -40°C to +70°C may have a long electrical cover to accommodate a lithium-ion battery pack, associated control protective circuitry, and a heater.

Terminal Bung with ethernet connection option - All Actuator sizes

The ethernet option with RJ45 or M12 connections arrangement are mounted to two of the actuator's terminals.







Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
- ii. Each IQT3 Range of Electric Actuators shall be subjected to a routine overpressure test in accordance with IEC 60079-1 clause 16 at the following values.

Routine overpressure tests Tamb -20°C

Noutine overpressure tests Tainb -20 C	_	
Equipment	Test Pressure (bar)	
Non-Flameproof Terminal Bung fitted (Normal Terminal Cover)		
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade A4-80 fasteners	17.43	
Non-Flameproof Terminal Bung fitted (Deep Terminal Cover)		
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade A4-80 fasteners	17.55	
Deep Terminal Cover - Aluminium Alloy to BS1490, Grade: LM25TF (heat treated)	17.55	

Routine overpressure tests Tamb below -20°C

Equipment	Test Pressure (bar)	
Non-Flameproof Terminal Bung fitted (Normal Terminal Cover)		
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade A4-80 fasteners	19.71	
Extra-Short Electrical Cover - Aluminium Alloy to BS1490, Grade: LM25M	19.71	
Non-Flameproof Terminal Bung fitted (Deep Terminal Cover)		
Gearcase/Electrical-Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade A4-80 fasteners	32.80	
Gearcase/Electrical-Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade 12.9 fasteners	32.80	
Motor Cover - Aluminium Alloy to ASTM B85, Grade: A360 LM2	32.80	
Extra-Short Electrical Cover - Aluminium Alloy to BS1490, Grade: LM25M	32.80	
Deep Terminal Cover - Aluminium Alloy to BS1490, Grade: LM25TF (heat treated)	32.80	
Aerial Housing - Dalau Ltd, Grade: Dalcon 001	32.80	
Terminal Housing with Flameproof Terminal Bung fitted (Deep Terminal Cover & Network Disconnect PCB)		
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade A4-80 fasteners	16.56	
Terminal Bung - Crastin ST830FRUV/Robnor PX700/BK	16.56	





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Routine overpressure tests when fitted with the Plug & Socket Connection facility and associated Plug & Socket Cover Tamb -20°C

Equipment	Test Pressure (bar)
Without Network PCB fitted	
Plug & Socket Cover - Aluminium Alloy to BS1490, Grade LM25 (or equivalent)	25.66
Extra-Short Electrical Cover - Aluminium Alloy to BS1490, Grade: LM25M	25.66
Motor Cover - Aluminium Alloy to ASTM B85, Grade: A360 LM20	25.66
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade: A4-80 fasteners	25.66
Gearcase/Electrical-Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade: 12.9 fasteners	25.66
With Network PCB fitted	
Plug and Socket Cover - Aluminium Alloy to BS1490, Grade: LM25 (or equivalent)	32.36
Extra-Short Electrical Cover - Aluminium Alloy to BS1490, Grade: LM25M	32.36
Motor Cover - Aluminium Alloy to ASTM B85, Grade A360 LM20	32.36
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade: A4-80 fasteners	32.36
Gearcase/Electrical-Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade: 12.9 fasteners	32.36

Routine overpressure tests when fitted with the Plug & Socket Cover Tamb -20°C

Equipment	Test Pressure (bar)	
Without Network PCB fitted		
Plug & Socket Cover - Aluminium Alloy to BS1490, Grade LM25 (or equivalent)	25.66	
Extra-Short Electrical Cover - Aluminium Alloy to BS1490, Grade: LM25M	25.66	
Motor Cover - Aluminium Alloy to ASTM B85, Grade: A360 LM20	25.66	
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade: A4-80 fasteners	25.66	
Gearcase/Electrical-Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade: 12.9 fasteners	25.66	
With Network PCB fitted		
Plug and Socket Cover - Aluminium Alloy to BS1490, Grade: LM25 (or equivalent)	32.36	
Extra-Short Electrical Cover - Aluminium Alloy to BS1490, Grade: LM25M	32.36	
Motor Cover - Aluminium Alloy to ASTM B85, Grade A360 LM20	32.36	
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade: A4-80 fasteners	32.36	
Gearcase/Electrical-Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade: 12.9 fasteners	32.36	







Routine overpressure tests when fitted with the Plug & Socket Cover Tamb -20°C

Equipment	Test Pressure (bar)
Without Network PCB fitted	
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade: A4-80 fasteners	16.65
With Network PCB fitted	
Extra-Short Electrical Cover - Aluminium Alloy to BS1490, Grade: LM25M	20.02
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade: A4-80 fasteners	20.02

Routine overpressure test when fitted with the shutdown battery module. Non-flameproof terminal bung fitted Tamb -20°C

Equipment	Test Pressure (bar)
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade A4-80 fasteners	19.08

Routine overpressure tests when fitted with the shutdown battery module. Non-flameproof terminal bung fitted Tamb -40 $^{\circ}$ C

Equipment	Test Pressure (bar)
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade A4-80 fasteners	25.37
Gearcase/Electrical/Terminal Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade 12.9 fasteners	25.37
Motor Cover - Aluminium Alloy to ASTM B85, Grade: A360 LM20	25.37
Long Electrical Cover - Aluminium Alloy to ASTM B85, Grade: A360 (or equivalent)	25.37
Long Electrical Cover - Aluminium Alloy to BS1490, Grade: LM25TF (heat treated) (or equivalent)	25.37

Routine overpressure tests when fitted with the shutdown battery module. Flameproof terminal bung fitted Tamb -20 $^{\circ}\text{C}$

Equipment	Test Pressure (bar)
Gearcase/Electrical/Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade A4-80 fasteners	18.56
Terminal Bung - Crastin ST830FRUV/Robnor PX700/BK	18.56







Routine overpressure test when fitted with the shutdown battery module. Flameproof terminal bung fitted Tamb -40°C

Equipment	Test Pressure (bar)
Gearcase/Electrical/Compartment Terminal bung circlip groove - Aluminium Alloy to BS1490, Grade: LM25M	26.55
Gearcase/Electrical/Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade A4-80 fasteners	26.55
Gearcase/Electrical/Compartment - Aluminium Alloy to BS1490, Grade: LM25M Grade 12.9_fasteners	26.55
Motor cover - Aluminium Alloy to ASTM B85, Grade: A360 LM20	26.55
Long Electrical Cover - Aluminium Alloy to ASTM B85, Grade: A360 (or equivalent)	26.55
Long Electrical Cover - Aluminium Alloy to BS1490, Grade: LM25TF (heat treated) (or equivalent)	26.55
Terminal Bung - Crastin ST830FRUV/Robnor PX700/BK	26.55
Terminal Bung - (Deep Cover) Crastin ST830FRUV/Robnor PX700/BK	16.56

iii. When the terminal enclosure utilises increased safety explosion protection, the following electrical strength tests shall be applied to the termination facilities for at least 60 s in accordance with EN 60079-7 by clause 6.1 at the following values:

Test Voltage Applied Between	Test Voltage
Three phase Terminations/Case	2,500 Vrms
Three phase Terminals/Low Voltage Terminations	2,500 Vrms
Low Voltage Terminations/Case	1,500 Vrms

Alternatively, a test shall be carried out at 1.2 times the test voltage. But maintained for at least 100ms in accordance with EN 60079-7 clause 7.1.

- iv. The Deep Terminal Cover option shall not be marked for applications below -20°C unless a flameproof Terminal Bung is fitted.
- v. When the Intumescent Coating is applied the equipment shall not be marked T6/T80°C.
- vi. When the terminal enclosure requires a routine overpressure test and utilises the 2xoff either RJ45 or M12 type ethernet connections, the enclosure shall be tested in accordance with the requirements for the terminal fitted, described in the conditions above.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. This certificate does not cover the IQT3 Range of Electric Valve Actuators if the motor has been overridden. See manufacturer's instructions.
- ii. The IQT3 Range of Electric Valve Actuators shall be installed such that the risk of impact to the window is low.







iii. In accordance with IEC 60079-1 clause 5.1, the critical dimensions of the flamepaths are as follows:

Flamepath	Max, Gap (mm)	Min. <i>L</i> (mm)
Terminal Cover/Terminal Housing	0.15	26.95
Gearcase/Plug and Socket Cover	0.15	27.00
Terminal Bung/Gearcase	0.20	26.0
Electrical Cover/Gearcase	0.15	26.0
Motor Cover/Gearcase	0.15	26.0
Motor Shaft/Motor Shaft Bushing	0.24	25.0
Motor Shaft Bushing/Gearcase	0.00	25.0
Encoder Shaft/Resolver Shaft Bushing	0.08	28.0
Encoder Shaft Bushing/Gearcase	0.07	25.0

iv. When the IQT3 Range of Electric Valve Actuators are marked with a T6 temperature classification/T80°C maximum surface temperature, the following duty cycle is applicable:

IQT50, IQT100, IQT125, IQT250, IQT500, IQT1000, IQT1500 and IQT2000

15 minutes rated based upon a nominal 75% of rated torque.

IQT3000

15 minutes rated based upon a nominal 50% of rated torque.

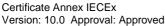
v. When the actuator has a Shutdown Battery Module installed, the actuator shall only operate a certain number of strokes when the battery is in use or during mains power loss. Below is the number of strokes the battery pack can sustain and the time to recharge in reference to utilized strokes. The Shutdown Battery Pack shall only be used to either open or close the endapplication valve once, even during manual adjustment.

Size	IQT - Number of strokes	Discharging duration (mins)	IQT - Time to recharge per stroke (mins)
IQTF 50	80	4	2
IQTF 100	72	4	2
IQT 125*	30	4	5
IQT 250*	14	4	11
IQT 500*	8	4	19
IQT 1000*	4	4	38
IQT1500	3	4	51
IQT 2000*	2	4	75
* These models may have the prefix IQT, IQTF, IQTM or IQTFM			

When the shutdown Battery Pack is installed, the actuator powered from mains shall operate as follows:

IQT/IQTF series up to 2000 models:- 15 minutes rated based at 60°C ambient temperature and 6 minutes rated based at 70°C on a nominal torque of 75% of rated torque.







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IQTM/IQTFM series up to 2000 models:- 50% duty cycle rated based at 60°C ambient temperature and 20% duty cycle rated based at 70°C on a nominal torque of 50% of rated torque.

- vi. Where the end user connects locally to the actuator via a mobile app, the end user must use a suitably certified explosion proof handheld device.
- vii. The actuator should only be cleaned with a damp cloth.

