

EU Type Examination Certificate CML 19ATEX1192X Issue 10

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **IQT3 Range of Electric Valve Actuators**
- 3 Manufacturer **Rotork Controls Limited** **Rotork Flow Technology (Suzhou) Co., Ltd.** **Rotork Controls, Inc.** **Rotork Controls (India) Pvt Ltd**
- 4 Address **Brassmill Lane, Bath, BA1 3JQ, United Kingdom** **Building A, No 88 Yinhe Road, Southeast Street, Changshu, Jiangsu, China 215558** **675 Mile Crossing Blvd, Rochester, NY 14624, USA** **28B, Ambattur Industrial Estate (North) TN Chennai-600 098, India**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 Eurofins CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015+A1:2018

EN 60079-31:2014

EN ISO 80079-36:2016

- 10 The equipment shall be marked with the following:



II 2 G D

Ex db^① h IIB T4^② Gb IP66/IP68^③

Ex h tb IIIC T120°C^④ Db

Ta = (-^⑤°C to +^⑥°C) ^⑥down to -50°C, ^⑥up to +70°C

^①'eb' added on versions with increased safety terminal enclosure.

^②Can be T6 when a duty cycle is specified (See Specific Conditions of Use)

T6 cannot be applied when an Intumescent Coating is specified.

^③Only IP64 is endorsed by CML

^④Can be T80°C when a duty cycle is specified (See Specific Conditions of Use)

T80°C cannot be applied when an Intumescent Coating is specified.

11 Description

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. 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.

Notes:

- Sira 15ATEX1011X is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 15ATEX1011X.
- Where Sira 15ATEX1011X is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.

Variation 1

This variation introduces the following modifications:

- i. The introduction of a shutdown battery module to the IQT3 Range of Electric Valve Actuators sizes IQT50, 100, 125, 250, 500, 1000 & 2000 (IQT, IQTF, IQTM and IQTFM Types as applicable). The modification includes the introduction of the long electrical cover to allow the accommodation of a lithium-ion battery pack, associated control and protective circuitry, and a heater.
- ii. The introduction of austenitic/ferritic duplex stainless steel type fasteners, grade 1.4462, to EN 10088-3, heat treated to achieve a grade of 12.9 to ISO 898-1:2013E, Table 2, as an alternative to carbon steel, grade 12.9 fasteners.

Variation 2

This variation introduces the following modifications:

- i. Correction of typographical errors in the schedule drawings.
- ii. Addition of a new model; IQT1500.

Variation 3

This variation introduces the following modifications:

- i. The addition of alternative radio modules to the existing WT12 Bluetooth module.
- ii. Update to permit end user's communication with actuator via mobile device App.
- iii. The removal of all references to nominal stats.
- iv. Clarification on the conditions of use on the battery shut-down module.
- v. The addition of manufacturing location, Rotork Controls (India) Pvt Ltd.
- vi. The addition of a 'Vandal-Proof' Extra Short Cover to the Bill of Materials.

Variation 4

This variation introduces the following modification:

- i. Correction of typographical errors in the drawing lists.

Variation 5

This variation introduces the following modifications:

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

Variation 6

This variation introduces the following modifications:

- i. Include the option for the heat pad to be disconnected.
- ii. Amendment to table in specific conditions of use to include IQT1500.

Variation 7

This variation introduces the following modification:

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

Variation 8

This variation introduces the following modification:

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

Variation 9

This variation introduces the following modification:

- i. Update to Manufacturing Locations.

Variation 10

This variation introduces the following modification:

- i. The introduction of alternative bearings for low ambient temperature.

12 Certificate history and evaluation reports

| Issue | Date | Associated Report | Notes |
|-------|-------------|--------------------------|------------------------------|
| 0 | 26 Jul 2019 | R12481A/00 | Issue of Prime Certificate |
| 1 | 09 Jan 2020 | R12977A/00 | Introduction of Variation 1 |
| 2 | 02 Apr 2020 | R13111A/00 | Introduction of Variation 2 |
| 3 | 17 Nov 2020 | R13590A/00 | Introduction of Variation 3 |
| 4 | 12 Aug 2021 | R13111A/01 R13590A/01 | Introduction of Variation 4 |
| 5 | 21 Nov 2021 | R14711A/00 | Introduction of Variation 5 |
| 6 | 21 Feb 2022 | R15013A/00 | Introduction of Variation 6 |
| 7 | 20 Jun 2023 | R16556A/00 | Introduction of Variation 7 |
| 8 | 25 Mar 2024 | R16773A/00 | Introduction of Variation 8 |
| 9 | 01 Nov 2024 | R18135A/00 | Introduction of Variation 9 |
| 10 | 25 Apr 2025 | R18600A/00 | Introduction of Variation 10 |

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

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

- i. 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 EN 60079-1 clause 16 at the following values.

Routine overpressure tests Tamb -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 |

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 | |
| 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°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°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 100 ms 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.

14 Specific Conditions of Use (Special Conditions)

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 EN 60079-1 clause 5.1, the critical dimensions of the flamepaths are as follows:

| Flamepath | Max, Gap (mm) | Min. L (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 end-application 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 |
| IQT 1500 | 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.

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.

Certificate Annex

Certificate Number CML 19ATEX1192X Issue 10
Equipment IQT3 Range of Electric Valve Actuators
Manufacturer Rotork Controls Limited
Rotork Fluid Technology (Suzhou) Co Ltd
Rotork Controls, Inc.
Rotork Controls (India) Pvt Ltd



The following documents describe the equipment or component defined in this certificate:

Issue 0

| Drawing No | Sheets | Rev | Approved Date | Title |
|------------|--------|-----|---------------|--|
| 95-462 | 1 to 2 | 8 | 26 Jul 2019 | Low Temperature Battery |
| 95-614 | 1 to 2 | 2 | 26 Jul 2019 | High Temperature Battery |
| 44406 | 1 of 1 | 1 | 26 Jul 2019 | Label fuse types – CENELEC Battery Loom |
| AD1408 | 1 to 7 | 4 | 26 Jul 2019 | IQT50, 100, 125, 250, 500 & IQT1000, 2000 & 3000 Actuators ATEX & IECEx Certification Group IIB & IIC |
| AD1414 | 1 to 2 | 5 | 26 Jul 2019 | Terminal Bung & Main Labels – IQT ATEX & IECEx IIB & IIC |
| AD1451 | 1 to 2 | 1 | 26 Jul 2019 | IQT3 50-500 Intumescent Coating Certification Drawing |
| AD1452 | 1 to 2 | 2 | 26 Jul 2019 | IQT3 1000-2000 Intumescent Coating Certification Drawing |
| PLAD1408 | 1 to 6 | 5 | 26 Jul 2019 | Parts List for IQT50, 100, 125, 250, 500 & IQT1000, 2000 & 3000 Actuators ATEX & IECEx Certification Group IIB & IIC |
| RS308 | 1 to 2 | 9 | 26 Jul 2019 | Potting Procedure for CENELEC and ATEX Term, Blocks & Mtr, Looms |
| RS448 | 1 of 2 | 1 | 26 Jul 2019 | Window bonding procedure |

Issue 1

| Drawing No | Sheets | Rev | Approved Date | Title |
|------------|--------|-----|---------------|--|
| AD1408 | 1 to 8 | 5 | 09 Jan 2020 | IQT50, 100, 125 500, 1000, 2000 & 3000 Actuators, ATEX & IECEx Group IIB & IIC |
| AD1480 | 1 to 2 | 1 | 09 Jan 2020 | IQT3 Battery Shutdwn (up to 600 V) Electrical Safety Diagram |
| AD1496 | 1 to 4 | 1 | 09 Jan 2020 | Battery Assembly Drawing |
| PLAD1408 | 1 to 6 | 6 | 09 Jan 2020 | Parts List for IQT50, 100, 125, 250, 500 & IQT1000, 2000 & 3000 Actuators ATEX & IECEx Certification Group IIB & IIC |

Certificate Annex



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Equipment IQT3 Range of Electric Valve Actuators
Manufacturer Rotork Controls Limited
Rotork Fluid Technology (Suzhou) Co Ltd
Rotork Controls, Inc.
Rotork Controls (India) Pvt Ltd

Issue 2

| Drawing No | Sheets | Rev | Approved Date | Title |
|------------|--------|-----|---------------|--|
| AD1408 | 1 to 8 | 6 | 02 Apr 2020 | IQT50, 100, 125, 250, 500 & IQT1000, 2000 & 3000 Actuators ATEX & IECEX Certification Group IIB & IIC |
| PLAD1408 | 1 to 6 | 7 | 02 Apr 2020 | Parts List for IQT50, 100, 125, 250, 500 & IQT1000, 2000 & 3000 Actuators ATEX & IECEX Certification Group IIB & IIC |
| AD1452 | 1 to 2 | 3 | 02 Apr 2020 | IQT3 1000, 2000 & 3000 INTUMESCENT COATING CERTIFICATION DRAWING |
| AD1414 | 1 to 2 | 6 | 02 Apr 2020 | Terminal Bung & Main Labels – IQT ATEX & IECEX IIB & IIC |

Issue 3

| Drawing No | Sheets | Rev | Approved Date | Title |
|------------|--------|-----|---------------|--|
| AD1414 | 1 to 2 | 7 | 17 Nov 2020 | TERMINAL BUNG & MAIN LABELS - IQT ATEX & IECEX IIB & IIC |
| PLAD1408 | 1 to 5 | 7 | 17 Nov 2020 | Parts List for IQT50, 100, 125, 250, 500 & IQT1000, 2000 & 3000 Actuators ATEX & IECEX Certification Group IIB & IIC |

Issue 4

None.

Issue 5

| Drawing No | Sheets | Rev | Approved Date | Title |
|------------|--------|-----|---------------|---|
| PLAD1346 | 1 to 6 | 11 | 21 Nov 2021 | Parts List for IQ19, 20 & 25 Actuators ATEX & IECEX Certification Group IIB & IIC |
| PLAD1350 | 1 to 8 | 10 | 21 Nov 2021 | Parts List for IQ10, 12 & 18 Actuators ATEX & IECEX Certification Group IIB & IIC |
| PLAD1351 | 1 to 8 | 08 | 21 Nov 2021 | Parts List for IQ35 Actuators ATEX & IECEX Certification Group IIB & IIC |
| AD1414 | 1 to 2 | 8-0 | 21 Nov 2021 | CertDwg IQT3 ATEX-IECEX TERMINAL BUNG & MAIN LABELS |

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Equipment IQT3 Range of Electric Valve Actuators
Manufacturer Rotork Controls Limited
Rotork Fluid Technology (Suzhou) Co Ltd
Rotork Controls, Inc.
Rotork Controls (India) Pvt Ltd



Issue 6

| Drawing No. | Sheets | Rev | Approved Date | Title |
|-------------|--------|-----|---------------|---|
| AD1480 | 1 to 2 | 2-0 | 21 Feb 2022 | CertDwg IQT3 Batt shutdown elec safety diag (<600V) |

Issue 7

None.

Issue 8

| Drawing No | Sheets | Rev | Approved Date | Title |
|------------|--------|-----|---------------|---|
| AD1408 | 1 to 8 | 7 | 25 Mar 2024 | IQT50, 100, 125, 250, 500, 1000, 1500 Actuators ATEX/IECEX/UKEX |

Issue 9

| Drawing No. | Sheets | Rev | Approved Date | Title |
|-------------|--------|-----|---------------|---|
| AD1414 | 1 to 2 | 9-0 | 1 Nov 2024 | CertDwg IQT3 ATEX-IECEX Terminal Bung & Main Labels |

Issue 10

| Drawing No. | Sheets | Rev | Approved Date | Title |
|-------------|--------|-----|---------------|---|
| AD1414 | 1 to 2 | 10 | 25 Apr 2025 | CertDwg IQT3 ATEX-IECEX Terminal Bung & Main Labels |
| PLAD1408 | 1 to 5 | 9 | 25 Apr 2025 | Part List for IQT50, 100, 125, 250, 500 & IQT1000, 1500, 2000 & 3000 Actuators ATEX & IECEX Certification Group IIB & IIC |