

European Union Recognised Organisation (EU RO) Mutual Recognition Type Approval Certificate in accordance with Article 10.1 of EU Regulation 391/2009.

This is to certify to the Manufacturer named below, that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements. The most demanding and rigorous standard from all EU ROs has been taken as a reference for the development of the Technical Requirement on which present certificate is based.

This certificate is issued to:

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|---------------------------|---|
| Manufacturer | Rotork Controls Ltd |
| Address | Rotork House, Brassmill Lane, Bath, BA1 3JQ, United Kingdom |
| Product Type | Actuators |
| Description | IQT3 Range of Electric Actuators |
| Trade Name | IQT, IQTM, IQTF & IQTFM |
| Application | Applicable for ships as defined in Mutual Recognition provisions Article 10 Regulation on Common Rules and Standards for Ship Inspection and Survey Organisations |
| Specified Standard | EU MR Technical Requirements for Electrical Actuator for Valves, Version 0.2 dated April 2016 |
| Ratings | IP66 and IP68 ATEX II 2 G B, variant is available with the above IP rated actuators |

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Matt Higgins

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EAC TR CU012/2011 certified variants are available with the above IP rated actuators
Torque Range(Nm): 50 – 3000
Amps: 0.5 – 20
Output Rotation: 0deg. - 360deg.
IQT Operating Time (S) : 0 - 240
IQTF Operating Time (S) : 0 – 21120
Gearcase Lubrication: Hydraulic/Synthetic Ep Oil
1-Phase 50/60Hz, 100v to 240v
3-Phase 50/60 Hz, 200vto 690v

Special Conditions

When this equipment is fitted with a Makrolon 6717 viewing window, it shall be positioned such that risk of impact to the window is low.
This EU MR Type Approval is for the actuator only

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2283211MR and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 18/00005 to which this extension should be attached.

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When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- *American Bureau of Shipping (ABS);*
- *Bureau Veritas (BV);*
- *China Classification Society (CCS);*
- *Croatian Register of Shipping (CRS);*
- *DNV GL;*
- *Indian Register of Shipping (IRS);*
- *Korean Register (KR);*
- *Lloyd's Register Group Ltd. (LR);*
- *Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);*
- *Polish Register of Shipping (PRS);*
- *RINA Services S.p.A. (RINA);*
- *Russian Maritime Register of Shipping (RS).*

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).