

EU RO Mutual Recognition Type Approval Certificate

[Electric Actuator]



Initial Approval 2 January 2020
Manufacturer Noah Actuation Co., Ltd.
11 Jeongseojin 9-ro, Seo-gu, Incheon, 22850, Republic of Korea
Product Description Type : SA005

“ See Appendix 1 ”

Approval Condition “ See Appendix 1 & 2 ”

THIS IS TO CERTIFY that the Product referred to herein has been inspected for the Manufacturer, pursuant 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

EU RO Framework Document for the Mutual Recognition of Type Approval version 10.0 and
EU RO Mutual Recognition Technical Requirements - Electrical Actuators for Valves - Version 0.2

This Certificate is valid until 1 January 2030 subject to periodical audit.

Issued at Incheon, Korea on 23 December 2024



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME25001584381) and certificate No.(INC41106-MR001).



KOREAN REGISTER

*General Manager of
Marine & Ocean Equipment Team*

Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue : 23 December 2024

A. Product Description

1. Product Specification

- 1) Power supply : 1 Phase 110/220V AC, 50/60Hz
- 2) Output torque : 50 Nm
- 3) Limit switches : 2 open/close + Dry contact 2 open/close
- 4) Degree of protection : IP67
- 5) Manual operation : by L-wrench

2. Approved drawings and documents

- 1) Catalogue for SA005
- 2) Test plan No. NOAH-TA-01 dated 2019.09.06
- 3) Drawing No. S005-101-C dated 2016.03.08

3. Test Reports, etc

- 1) Test Reports
 - ONETECH Test Report No. OT-19N-RRD-036 dated 2019.11.28
 - ONETECH Test Report No. OT-19N-RED-083 dated 2019.11.18
 - Noah Actuation Test Report No. NOAH-TR-021 dated 2019.10.11
- 2) Other documents and drawings
 - SA-Series Manual Ver.1
 - Drawing No. SA5-BL0 Rev.A dated 2019.08.06
 - Drawing No. SA05-SPA.L-A dated 2017.11.07
 - Drawing No. ST-12000-A dated 2005.06.01

B. Approval Condition

1. Application & Limitation

- 1) This approval is granted on the basis of the test reports and the approved documentation.
- 2) The manufacturer should inform this Society of all kinds of revisions of the equipment. If the changes are recognized to affect functionality of the approved equipment, type test to confirm the reliability of the revised equipment may be performed in the presence of our surveyor.

2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is not required.

3. Marking

- 1) The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.

4. Others

- 1) Test condition

Test	Condition	Remark
EMC	All locations excluding the bridge and deck zone	Up to 6GHz
Temperature	+5 ~ +70°C	-
Vibration	Acceleration $\pm 0.7g$	-
Degree of protection	IP67	-

< End of Certificate >

Endorsement for Periodical Assessment

Date of Issue : 23 December 2024

Anniversary Date : 1 January

This is to certify that the Production Quality Assurance Scheme is in compliance with the relevant requirements of the Guidance of EU RO MR for Type Approval and the Certificate is valid until 1 January 2026

■ Periodical/Confirmation/Occasional Assessment

Periodical/Confirmation/Occasional Assessment has been carried out and Certificate is valid until

Branch(Office) : _____

Date : _____

Surveyor : _____

■ Periodical/Confirmation/Occasional Assessment

Periodical/Confirmation/Occasional Assessment has been carried out and Certificate is valid until

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Surveyor : _____

■ Periodical/Confirmation/Occasional Assessment

Periodical/Confirmation/Occasional Assessment has been carried out and Certificate is valid until

Branch(Office) : _____

Date : _____

Surveyor : _____

Note : The approval will be automatically suspended and the Certificate become invalid if not endorsed annually within 3 months after the anniversary date of this Certificate

Generic Statement

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;
- 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);

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)).

< End of Certificate >