



CERTIFICATE NUMBER
15-HG1340111-PDA

DATE
09 Apr 2015

ABS TECHNICAL OFFICE
Hamburg Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
HEINZMANN GMBH & CO. KG.

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Actuator**

Model: **StG EC 40, StG EC 40 RS-CW(CCW), StG EC 250**

This Product Design Assessment (PDA) Certificate 15-HG1340111-PDA, dated 09/Apr/2015 remains valid until 08/Apr/2020 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Ulf (Ulf Numirski) Numirski
Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

HEINZMANN GMBH & CO. KG.

AM HASELBACH 1
D-79677 SCHOENAU
Germany
Telephone: 49-7673 8208 0
Fax: 49-7673 8208 188
Email: info@heinzmann.de
Web: www.heinzmann.com

Tier: 2 - PDA Issued

Product: Actuator**Model:** StG EC 40, StG EC 40 RS-CW(CCW), StG EC 250**Intended Service:**

For Marine and Offshore Application of combustion engines.

Description:

The positioners are for activating actuators that control the speed of combustion engines.

Rating:

Brushless actuator with integrated gearbox and positioner.
Rotation angle: 82°, CW (CCW), RS: optional Return Spring
Torque: max. 40 Nm, 250 Nm
Position setpoint inputs: -4 ... 20 mA, 0 ... 5 V (10 V), -PWM, -CAN
Alarm outputs: Minor alarm, major alarm, overload
Power supply: 24 V DC
Power StG EC 250 drive: 48 V DC supply
Ambient Temperature: -40 ... 80° C
Degree of Protection: IP66

Service Restriction:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Drawing No. 10_320-90-229-02_V2, Circuit Diagram
Drawing No. 11_320-90-229-02_Layout Diagram
Drawing No. 13_StG EC 40-250, Protection Degree Test
Drawing No. 14_StG-EC-REV1_4-100408, Specification
Drawing No. 15_VR005_11, test Report, Salt Mist
Drawing No. 01_504-00-100-00_d_StG-EC-40, Dimension Drawing Actuator, Rev. d
Drawing No. 22, Test Report, Performance
Drawing No. 23_StG EC 250-2014-02, Test Report, Torque
Drawing No. 02_507-00-004-xx_0_StG-EC-250, Dimension Drawing, Actuator
Drawing No. 04_11_002_e_04-14StG-EC WEA_6821, Digital Positioner
Drawing No. 05_100682_02_G_TR, Test Report

Terms of Validity:

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STANDARDS

ABS Rules:

2015 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-2-1/7.3.3, 4-9-8/13.1

2015 Mobile Offshore Drilling Unit Rules 1-1-4/9.7, 1-1-Appendix 2 and 3

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA