



CERTIFICATE NUMBER      DATE  
17-HG1632365-PDA-DUP      19 May 2017

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  
**REGULATEURS EUROPE B.V.**

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: **Electronic Speed Governor**

Model: **DG 2800.14**

This Product Design Assessment (PDA) Certificate 17-HG1632365-PDA-DUP, dated 19/May/2017 remains valid until 17/May/2022 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 Numirski  
Engineer/Consultant

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).

**REGULATEURS EUROPE B.V.**

EKKELKAMP 3

RODEN

Netherlands 9301 ZZ

Telephone: +31 (0)50 533 9649

Fax:

Email: Gertjan.Mulder@regulateurs-europa.com

Web: www.regulateurseuropa.com

**Tier: 5 - Unit Certification Required**

---

**Product:** Electronic Speed Governor

**Model:** DG 2800.14

**Intended Service:**

Electro-hydraulic Speed Governors for Diesel or Dual Fuel Engines on AMS, ACC, ACCU, and ABCU Classed Vessels.

**Description:**

Consisting of 2800 series and digital DC 14 unit. The engine speed is measured by a proximity speed pickup fitted in the DG 2800.14.

**Rating:**

Power Supply: 24 V DC , min. 18 V DC, max. 32 V DC

Ambient Temperature: -40 °C ... +70 °C

Digital input: 7 x 24 V DC, < 10 mA

Digital outputs: 2 x switch for 24 V DC, max. 100 mA

Analogue inputs: 3 x 4 ... 20 mA, 1 x 0 ... 5 V or PWM input

Analogue outputs: 1 x 4 ... 20 mA

Degree of Protection: IP 65

**Service Restriction:**

Unit Certification is required for this product.

**Comments:**

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

**Notes/Drawing/Documentation:**

Drawing No. 01, Manual, Revision: 1, Pages: 1

Drawing No. 1-0939/15-01-02-B, Test Report, Environmental, 30/06/2016, Revision: -, Pages: 1

Drawing No. 16PBI030086-04, Test Report, EMC, 16/12/2016, Revision: -, Pages: 1

Drawing No. 16PBI030827, Test Report, EMC, 18/10/2016, Revision: -, Pages: 1

Drawing No. 320051TRFEMC-001\_DG280014, Test Report, EMC, 14/12/2016, Revision: -, Pages: 1

Drawing No. DC14, Functional Test, Revision: -, Pages: 1

Drawing No. DS\_RE\_2800-14, Data Sheet, Revision: -, Pages: 1

Drawing No. US\_08241/2016, Test Report, IP, 16/12/2016, Revision: -, Pages: 1

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate 17-HG1632365-PDA-DUP, dated 19/May/2017 remains valid until 17/May/2022 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.

**STANDARDS**

**REGULATEURS EUROPE B.V.**

EKKELKAMP 3

RODEN

Netherlands 9301 ZZ

Telephone: +31 (0)50 533 9649

Fax:

Email: Gertjan.Mulder@regulateurs-europa.com

Web: www.regulateurseuropa.com

**Tier: 5 - Unit Certification Required**

---

**ABS Rules:**

2017 Steel Vessel Rules 1-1-4/7.7, 1-1-Appendix 3 and 4, 4-2-1/7.3 /7.5, 4-9-2/11.7.2, 4-9-8/7 /13

**National:**

NA

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA