Certificate Number: 19-HS1862984-PDA 14/JUN/2019



## Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 06-JUN-2024. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Product Name: Thermostatic Release Model Name(s): C-1 & C-2

## Presented to:

VIKING CORPORATION 210 NORTH INDUSTRIAL PARK ROAD MI 49058 United States

**Intended Service:** Deluge System; Corrosion resistant rate of rise release for activating the Viking

Deluge System if subjected to a temperature rise greater than 15 degrees °F per

minute.

**Description:** Releasing device for use on pneumatic release systems using air or nitrogen and

hydraulic release system, Element Tube manufactured with aluminum (C1) or Cupro-Nickel coated with Flat Black Epoxy (C2), End Cap and Body with Cast

Bronze.

Tier: 3

Ratings: Pressure Rating for the Thermostatic Release Device is 250 Psi (17.2 bar) Ambient

Temperature Range: -40°F to 140°F (-40°C to 60°C) Fixed Temperature Release:

155 °F (68 °C)

Service Restrictions: i) 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. ii) To be used and installed in accordance with manufacturer's recommendations. iii) The model C-1 is not intended for use in corrosive

environments.

**Comments:** i) The Manufacturer has provided a declaration about the control of, or the lack of

Asbestos in this product. ii) All the components are to bear the Manufacturer's

Certificate Number: 19-HS1862984-PDA

Trademark and Identification legibly stamped or cast on the exterior of the

component and also the Primary Pressure Rating.

Notes / Documentation: Drawing No. Viking\_DoC (2), Declaration of Conformity dated 18 Apr 2019

Technical Data Deluge Devices 281a, dated April 4, 2008, Thermostatic Release Model C-1; Technical Data Deluge Devices 281a, dated January 7, 2011, Model C-1 Thermostatic Release; Technical Data Deluge Devices 282a-e, dated April 4, 2008, Thermostatic Release Model C-2 Corrosion Resistant; Technical Data Deluge Devices 282a-e, dated August 12, 2010, Thermostatic Release Model C-2 Corrosion Resistant; Part No. 01432C, Rev. 19, Release Assy, Thermostatic C-1; Part No. 03991C, Rev. 14, Release Assy, Thermostatic C-2; Part No. 01436BQ/G,

Rev. 1, Tube, Element, Thermostatic Release C-1.

**Term of Validity:** This Product Design Assessment (PDA) Certificate 19-HS1862984-PDA, dated

07/Jun/2019 remains valid until 06/Jun/2024 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

2019 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2 /5.11 2019 Mobile

to an agreement between the manufacturer and intended client.

Offshore Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-2/9.1.1

National Standards: International Standards: Government Authority:

EUMED: Others:

**ABS Rules:** 

Model CertificateModel Certificate NoIssue DateExpiry DatePDA19-HS1862984-PDA10-JUN-201906-JUN-2024

**ABS Programs** 

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.