



CERTIFICATE NUMBER

DATE

03-HS405911A-3-PDA

19 July 2013

ABS TECHNICAL OFFICE

Houston OED - Equipment

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
VIKING CORPORATION - HASTINGS

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: **Valve, Alarm Check**

MODEL: **J-1**

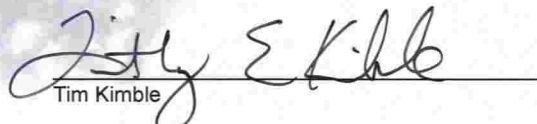
This Product Design Assessment (PDA) Certificate 03-HS405911A-3-PDA, dated 19/Jul/2013 remains valid until 18/Jul/2018 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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


Tim Kimble
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-A375.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

VIKING CORPORATION

210 NORTH INDUSTRIAL PARK ROAD

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MI 49058

United States

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Web: www.vikingcorp.com

MA Certificate No. 10-CH1820347-X

Product: Valve, Alarm Check

Model: J-1

Intended Service:

Marine & Offshore Application - Fire Protection Service; Valve is used in Wet Sprinkler System to lock water pressure fluctuations while providing the capabilities of initiating alarm.

Description:

The Alarm Check Valves are manufactured the body with ductile iron. ASTM A536 (65-45-12) and are available with Flanged or Grooved Inlets & Outlets; Valve may be installed in Vertical or Horizontal Position.

Ratings:

Alarm Check Valve Sizes: 3" (DN80), 4" (DN100), 6" (DN150), & 8" (DN200)

Maximum Allowable Working Pressure (MAWP): 300 psi (20.7 bar)

Service Restrictions:

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. i) Installation is to be in accordance with manufacturer's recommendations

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 Trademark and Identification legibly stamped or cast on the exterior of the component and also the Primary Pressure Rating.

Notes / Drawings / Documentation:

Supporting Data:

Part No. 08737, Rev. 25, Valve Ass'y 3" (DN80) Alarm;

Part No. 08738, Rev. 25, Valve Ass'y 4" (DN100) Alarm;

Part No. 08739, Rev. 25, Valve Ass'y 6" (DN150) Alarm;

Part No. 08740, Rev. 25, Valve Ass'y 8" (DN200) Alarm;

Viking Technical Data Alarm Check Valve Model J-1, dated 12 June 2013, Pages Wet 26a to 26g;

FM Approval Report ID 3042799, Alarm Check Valves, Model J-1, Sizes: 3,4,6 & 8 " NPS, dated 15 Sept 2011;

UL File Ex659 Report on Alarm Valves, Issued 11 Feb. 1994, Revised 15 Nov. 2011;

Term of Validity:

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STANDARDS

VIKING CORPORATION

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ABS Rules:

2013 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3, 4-6-2 / 5.11;

National:

UL 193, FM 1041

International:

NA

Government Authority:

NA

EUMED:

NA

Others:

NA