Certificate Number: 04-HS407984A/1-PDA



## Confirmation of Product Type Approval 18/SEP/2009

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

This is to certify that, 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 26/OCT/2009. 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 12/JUL/2014 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.

## VIKING CORPORATION

Model Name(s): VK100, VK102, VK118, VK120, VK200 & VK202

## Presented to:

VIKING CORPORATION 210 NORTH INDUSTRIAL PARK ROAD HASTINGS United States

Intended Service: Marine & Offshore Applications

**Description:** Standard Response Fire Sprinklers - Automatic Sprinkler Heads - heat activated -

for Fire Control and Suppression. VK100 - Standard Orifice, Upright Sprinkler with 1/2" NPT Threads. VK102 - ,Standard Orifice, Pendant Sprinkler with 1/2" NPT Threads. VK118 - Standard Orifice, Conventional Sprinkler with 1/2" NPT Threads. VK120 - Large Orifice, Conventional Sprinkler with 3/4" NPT Threads VK200 - Standard and Large Orifices, Upright Sprinkler with 1/2" and 3/4" NPT Threads. VK202 - Standard and Large Orifices, Pendant Sprinkler with 1/2" and 3/4" NPT

Threads

**Ratings:** Temperature Ratings: 155°F, 175°F, 200°F, 286°F, 360°F in brass chrome and

white poly finishes. Minimum Operating Pressure: 7 psi (.5 bar), Maximum Operating Pressure: 175 psi (12 bar) - Refer to Manufacturer's Website Data Sheet

for all Technical Data of Specific Models.

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. Specific sprinkler system drawings to include details of the

temperature ratings and location where sprinklers are fitted are to be submitted for

our review for each application, project or vessel.

Comments: Corrosion Testing of VK118 and VK120 to BS-EN12259-1. Where Escutcheons

are fitted, they are to be installed in accordance with the Manufacturer's Instructions with special regard as to which Sprinkler Model uses which Model

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Escutcheon.

Notes / Documentation: This Product Design Assessment (PDA) is valid only 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.

**Term of Validity:** This Design Assessment Certificate number 04-HS407984A/1-PDA, dated

13/Jul/2009 will expire on 12/Jul/2014 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2010, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this

certificate.

**ABS Rules:** 2009 Steel Vessels Rules 1-1-4/7.7 & 4-7-3/9.5

National Standards: UL 199 , 11th Ed. (4 Nov.2005); NFPA 13 & 25; UL Report 97NK 35639,

98NK5103 (6 Jan 1998)(Revised 9 Jan 1998)

International Standards: BS-EN12259-1(1999), Amend. A1 (2001), Amend. A2 (2004)

**Government Authority:** 

EUMED: Others:

**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.