



CERTIFICATE NUMBER

DATE

05-HS502910C-PDA

04 August 2005

ABS TECHNICAL OFFICE

Houston OED - Stability, Safety and Systems

CERTIFICATE OF Design Assessment

This is to Certify that a representative of this Bureau did, at the request of
Viking Corporation

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. It will remain valid for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Valve, Deluge

MODEL: F-1 (Deluge) - Straight Through Valve

ABS RULE: 2005 Steel Vessel Rules 1-1-4/7.7; 4-6-2/5.9; 2001 MODU 4-2-2/9

OTHER STANDARD: UL 260, ULC/ORD C260, FM 1011/1012, 1013, 1016 and 1020; NFPA 13, 14 and 15;

AMERICAN BUREAU OF SHIPPING

Hans P. Haandler

Engineering Type Approval Co-ordinator

Viking Corporation
210 North Industrial Park Road
Hastings
Michigan 49058
United States of America
Telephone: 269-945-9501
Fax: 269-945-9599

Product: Valve, Deluge

Model: F-1 (Deluge) - Straight Through Valve

Intended Service:

Used to control water flow in deluge and preaction sprinkler systems. The valves can be used for horizontal or vertical (upright) service.

Description:

Sizes 1-1/2", 2" and 2-1/2" are in-line globe valves with grooved inlet/outlet end or threaded inlet/outlet end connections. Sizes 3", 4" and 6" are in-line globe valves with grooved inlet/outlet end or flanged inlet/outlet end or flanged inlet/ grooved outlet end connections. Size 8" are in-line valves with grooved inlet/outlet end connections or flanged inlet/outlet end connections. All valves have ductile iron bodies ASTM A536 Gr. 65-45-12.

Ratings:

MAWP 250 PSI

Service Restrictions:

None

Comments:

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.

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 05-HS502910C-PDA, dated 04/Aug/2005. This PDA Certificate expires Aug of 2010. It will remain valid for the 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

STANDARDS

ABS Rules:

2005 Steel Vessel Rules 1-1-4/7.7; 4-6-2/5.9; 2001 MODU 4-2-2/9

National:

UL 260, ULC/ORD C260, FM 1011/1012, 1013, 1016 and 1020

NFPA 13, 14 and 15