



CERTIFICATE NUMBER

14-HS1080136-PDA

DATE

27 February 2014

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
CLA-VAL COMPANY - COSTA MESA

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, Deluge**

MODEL: **100G/2100G and 100GS/2100GS**

This Product Design Assessment (PDA) Certificate 14-HS1080136-PDA, dated 27/Feb/2014 remains valid until 26/Feb/2019 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-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

CLA-VAL COMPANY

1701 PLACENTIA AVENUE
COSTA MESA
CA 92627
United States
Telephone: 949-722-4800
Fax: 949-548-9900
Email: dalexander@cla-val.com
Web: cla-val.com

Tier: 2

Product: Valve, Deluge

Model: 100G/2100G and 100GS/2100GS

Intended Service:

Marine and offshore Application - used to control water flow to Sprinklers in Deluge, Pre-Action, or Foam-Water Type Systems.

Description:

The model 100G-2100G is a hydraulically-operated, diaphragm-actuated, global or angle pattern Deluge valve. The model 100GS-2100GS are the seawater version. Sizes: 3" to 10".

All ferrous parts are internally and externally coated with Fusion Epoxy for Protection against Corrosive Environments.

Ratings:

Maximum Allowable Working Pressure: 250 psi (Ductile Iron), 150 Class; 285 psi (Cast Steel), 150 Class; 400 psi, 300 Class;

Maximum Temperature: 180°F (water);

Refer to attached Manufacturer's 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.

Comments:

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

The subject deluge valves may be constructed from any of the following materials: ASTM A 536 Ductile Iron, ASTM A216 Gr. WCB Cast steel, ASTM B148 Nickel aluminum bronze, ASTM A890 Gr. 5A Super Duplex SST, ASTM B367 Gr. C2 Titanium.

The deluge valves are installed in a safe area.

Notes / Drawings / Documentation:

Supporting Data:

UL 260 Test Report dated 23 May 1972;

UL Test Report with File No. Ex2834, Project No. 75NK2728 dated Nov. 13, 1975;

UL Test Report with File No. Ex2834, Project No. 72NK1400 dated May 23, 1975;

UL Test Report with File No. Ex2834, Project No. 79NK6456 dated Nov. 17, 1981;

UL Certificate of Compliance Number EX2834-2008-07-21 dated 21 July 2008;

Technical Specification Sheet E-100G & 100GS (R-2007), 2 shts;

Term of Validity:

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STANDARDS

ABS Rules:

2014 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/5.11; 2012 MODU Rules 4-2-2/9;

National:

UL 260, latest version.

International:

NA

Government Authority:

NA

EUMED:

NA

Others:

NA