



CERTIFICATE NUMBER	23-2469752-PDA
EFFECTIVE DATE	21-Nov-2023
EXPIRY DATE	20-Nov-2028
ABS TECHNICAL OFFICE	Houston ESD - Piping

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

CLA-VAL COMPANY

located at

**1701 PLACENTIA AVENUE, , COSTA MESA, CA, United States,
92627**

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.

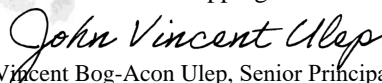
Product: Valve, Deluge
Model: 100G/2100G and 100GS/2100GS
E-100G-UA , E-100G-UB , E-100G-UBL , E-100G-UBR , E-100G-UBRL , E-100G-UC , E-100G-UD , E-100G-UDL , E-100G-UDR , E-100G-UDRL , E-100G-UO , E-100G-UP , ...
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 20/Nov/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping


John Vincent Bog-Acon Ulep, Senior Principal 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 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
United States 92627
Telephone: 281-741-4198
Fax: 949-548-9900
Email: kchism@cla-val.com
Web: www.cla-val.com

Tier: 2 - PDA Issued

Product: Valve, Deluge
Model: 100G/2100G and 100GS/2100GS
E-100G-UA , E-100G-UB , E-100G-UBL , E-100G-UBR , E-100G-UBRL , E-100G-UC , E-100G-UD , E-100G-UDL , E-100G-UDR , E-100G-UDRL , E-100G-UO , E-100G-UP , E-100G-UPL , E-100G-UQ , E-100G-UPR , E-100G-UPRL , E-100G-UR , E-100G-URL , E-100G-URR , E-100G-URRL , E-100G-UTR , E-100G-UT , E-100G-UU , E-100G-UUR

Endorsements:

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 12".
All ferrous parts are internally and externally coated with Fusion Epoxy for Protection against Corrosive Environments.

Rating:

Maximum Allowable Working Pressure: 250 psi (Ductile Iron), 150 Class; 285 psi (Cast Steel), 150 Class; 300 psi, 300 Class
Maximum Temperature: 180°F (water) MAX

Refer to attached Manufacturer's Data Sheet for all Technical Data of Specific Models.

Service Restriction:

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/Drawing/Documentation:

Drawing No. E-100G-2100G-Data-Sheet-US_Metric, E-100G-2100G-Data-Sheet-US_Metric, Revision: -, Pages: -
Drawing No. E-100GS_2100GS_Fire, E-100GS_2100GS_Fire, Revision: -, Pages: -
Drawing No. EX2834-20220721 (Test Record), EX2834-20220721 (Test Record), Revision: -, Pages: -
Drawing No. EX2834-Vol1-20220721 (Appendix A), EX2834-Vol1-20220721 (Appendix A), Revision: -, Pages: -
Drawing No. EX2834-Vol1-Sec1-20221202 (Description IP), EX2834-Vol1-Sec1-20221202 (Description IP), Revision: -, Pages: -

Terms of Validity:

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STANDARDS

ABS Rules:

2023 Rules for Conditions of Classification, Rules for Building and Classing Marine Vessels 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2023 Rules for Building and Classing Marine Vessels, 4-6-2/5.11

2023 Rules for Conditions of Classification - Offshore Units and Structures, Mobile Offshore Units Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3 which covers the following:

2023 Rules for Building and Classing Mobile Offshore Units: 4-2-2/9

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA