



CERTIFICATE NUMBER 25-0254693-PDA
EFFECTIVE DATE 29-Apr-2025
EXPIRATION DATE 28-Apr-2030
ABS TECHNICAL OFFICE CN Shanghai ESD

CERTIFICATE OF Product Design Assessment

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

CORELINE LTD

located at

**NO.4,WANGJIANG ROAD, MUQIAO TOWN, ZHENGPUGANG NEW
DISTRICT, 238200 HEXIAN, , MAANSHAN, China**

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, Butterfly

Model Wafer type, Lug type, U type

Endorsement:

Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 28-Apr-2030 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

Xiao-Wei Xu, Managing 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

CORELINE LTD

NO.4,WANGJIANG ROAD, MUQIAO TOWN, ZHENGPUGANG NEW DISTRICT, 238200 HEXIAN
MAANSHAN ANHUI
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Telephone: 0510-88525336
Fax: 0555-5510072
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Web: www.coreline.dk

Tier: 2 - PDA Issued

Product: Valve, Butterfly
Model: Wafer type, Lug type, U type
Endorsements:

Intended Service:
General shipboard services.

Description:
Wafer, lug and U type resilient seat butterfly valve
Body material: GGG40
Materials for shaft, disc and other components are to be according to ABS approved documents.

Rating:
Design pressure: 1.6Mpa
Design temperature: 0-70°C
Size: DN40-DN600 (Wafer and lug type), DN800 (U type)

Service Restriction:
1. 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.
2. Shell valves are to be installed such that the inboard piping can be removed and the valve can remain in place without impairing the watertight integrity. Wafer-type butterfly valves are not acceptable as per 4-6-2/9.13.2 of ABS Marine Vessels Rules.

Comments:
1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Valves intended for installation on the side shell at or below the deepest load waterline, including those at the sea chests, are to be hydrostatically tested in the presence of the Surveyor, before installation, to a pressure of at least 5 bar.
3. Unless specially directed by Administration, this approval is not to be construed as a substitute for flag Administration's approval for the purpose of SOLAS (Consolidated Edition 2014), as amended.
4. This certificate may not be used for EU and US flagged vessels (MED and/or USCG have their own specific/requirements).
5. The subject piping components are to bear permanent identification, such as the manufacturer's name or trademark, standard of compliance, material identify, pressure rating, etc. as required by the standard of compliance and at which manufacturer guarantees the piping components to meet the requirements of the standards. Such markings may be cast or forged integral with, stamped on, or securely affixed by nameplate on the component, and are to serve as a permanent means of identification of the component throughout its service life in accordance with 4-6-1/7.1.3 and 4-6-1/7.1.4 of ABS Marine Vessels Rules.
6. The non-fire-resistant valves are not to be used in the following systems
a. for fire mains and hydrants unless adequately protected as per 4-7-3/1.11.1 of ABS Marine Vessels Rules;
b. for connection to the shell where the failure of the material in the event of a fire would give rise to danger of flooding as per 4-6-2/9.13.1 of ABS Marine Vessels Rules;
c. for remote closure of valves on fuel oil and lubricating oil tanks unless protected adequately to ensure effective closure facility in the event of fire as per 4-6-4/13.5.3(b) and 4-6-4/15.3.2 of ABS Marine Vessels Rules.

Notes/Drawing/Documentation:
Drawing No. NA-1, Valve Drawing, Revision: 0, Pages: 16
Drawing No. NA-2, ABS Type Test Procedure, Revision: 0, Pages: 8
Test Report, Report No.:4300908-A (Witnessed by ABS on 01-June-2020, Location: Coreline Ltd.)

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Terms of Validity:

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STANDARDS

ABS Rules:

2025 Marine Vessels Rules 1A-1-4/7.7, 1A-1-A3, 1A-1-A4, 4-6-2/5.15, 4-6-2/5.17

National:

GB/T 12238-2008

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA