



CERTIFICATE NUMBER	23-2451622-PDA
EFFECTIVE DATE	29-Sep-2023
EXPIRY DATE	28-Sep-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

### **A-T CONTROLS**

located at

**9955 INTERNATIONAL BOULEVARD, , CINCINNATI, OH, United  
States, 45246**

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, Resilient Seated Butterfly Valves**  
**Model: LS**  
**Endorsements:**  
**Tier: 3 - Type Approved, unit certification not required**

This Product Design Assessment (PDA) Certificate remains valid until 28/Sep/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)

## A-T CONTROLS

9955 INTERNATIONAL BOULEVARD

CINCINNATI OH

United States 45246

Telephone: 513-247-5465

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**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Valve, Resilient Seated Butterfly Valves

**Model:** LS

**Endorsements:**

### Intended Service:

Marine and Offshore Applications

### Description:

LS Series Resilient Seated Butterfly Valves, PFA lined disc, Manual and Automated Butterfly Valves, Lug or Wafer Body, ANSI 125/150 Flanges

Material: ASTM A395 GR 65-45-15 DI & A351 CF8M

### Rating:

Pressure: 150 Psi

Temperature: -20 F to 355 F

Size: 2" - 24"

### 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. As per MVR 4-6-2/5.11.3 (c), "Resilient materials, where used, are subject to service limitations as specified by the manufacturers. Use of resilient materials in valves intended for fire mains is to be specifically approved based on submittal of certified fire endurance tests conforming to a recognized standard." No fire endurance test is conducted and hence these valves cannot be used in Fire main, Fire-fighting and other systems where fire testing is required.
3. Nodular iron is not permitted for the construction of valves and fittings for temperatures of 350°C (662°F) and above. Nodular iron may be used for Classes I and II piping systems and for valves listed in 4-6-2/3.1.4 provided it has an elongation of not less than 12% in 50 mm. See of 4-6-2/3.1.5 of the MVR.
4. Valves are not suitable for Class I and II piping systems having nominal diameters exceeding 50 mm (2in). See 4-6-2/5.11.3(d) of MVR.
5. Wafer-type butterfly valves are not acceptable as shell valves. See 4-6-2/9.13.2 ii of the MVR.

### Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. All valves are to bear permanent identification, such as manufacturer's name or trademark, standard of compliance, material identity, pressure rating, etc., as required by the standard of compliance or the manufacturer's specification. 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. See 4-6-1/7.1.4 of the MVR and 4-2-2/9.5 of the MOU.
3. All 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. Test pressure & holding time are to comply with 4-6-2/7.3.2 of the MVR. Also see 4-2-2/9.1.2 of the MOU.
4. Wafer-style valves with non-conductive gaskets seals are to be earthed (grounded) to the hull such that the resistance between any point on the piping and the hull (across joints, pipe to hull) does not exceed 1 mega-ohm. See 4-6-2/7.5 of the MVR.

### Notes/Drawing/Documentation:

Drawing No. IOM08202, Installation and Operation Manual LS Series Butterfly Valves, Revision: 0, Pages: 1

Drawing No. P04590, LS SERIES BFV BODY DIMENSIONS FOR ASME B16.34-2020 FIGURE 2 MATERIAL: A395 GR 65-45-15 DI & A351 CF8M, Revision: 0, Pages: 1

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Drawing No. RSBFV Catalog LS Series, RSBFV-3R-20230720LS, Revision: 0, Pages: 1

Drawing No. TR00504, LS CRN Report, Revision: 0, Pages: 1

**Terms of Validity:**

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**STANDARDS**

**ABS Rules:**

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

2023 Marine Vessel Rules: 4-6-2/5.11, 4-6-2/5.15

2023 Rules for Conditions of Classification, Part 1 - 2022 Rules for Building and Classing Mobile Offshore Units 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2023 Mobile Offshore Unit Rules: 4-2-2/9

**National:**

NA

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA