



## Confirmation of Product Type Approval

**Company Name:** EMERSON AUTOMATION SOLUTIONS FINAL CONTROL US LP

**Address:** 4607 NEW WEST DRIVE TX 77507 United States

**Product:** Valve, Butterfly

**Model(s):** Keystone Butterfly Valves Fig. 129 and Fig. 139

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	18-HS1806160-PDA	14-JAN-2019	19-DEC-2023
Manufacturing Assessment (MA)	18-HS3498286	08-JUN-2018	07-JUN-2023
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

3

### **Intended Service**

Marine & Offshore Application - for various Piping Systems subject to the requirements and restrictions specified below in "Service Restrictions"

### **Description**

Resilient Seated Butterfly Valve Heavy Duty Cartridge Seat Design, body manufactured with Nickel Aluminum Bronze ASTM A-B 148, Ductile Iron ASTM A-395, and Cast Iron ASTM A-126, disc with Aluminum Bronze, Nickel Aluminum Bronze Ductile Iron, Stainless Steel and Monel and Seat with NBR and EPDM.

### **Ratings**

Figure 129

Size: 2" to 20" (50mm to 500mm);

Pressure Rating: 200 PSI;

Body Type: Lug style;

Shut-Off Ratings (USCG): Category A.

Figure 139

Size: 2" - 20" (50mm to 500mm);

Pressure Rating: 200 PSI;

Body Type: Wafer Style:

Shut-Off Ratings (USCG): Category A;

Temperature range: -40°C to 120°C (EPDM seat); -18°C to 100°C (Buna N seat)

### **Service Restrictions**

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. Wafer type Butterfly Valves are not to be used for any connections to the Vessel's Shell; Lug or Flanged Valves may be used for Shell connections only if Fire Tested and are to be hydrostatically tested in presence of the Surveyor in accordance with the ABS Steel Vessels Rules (SVR) 4-6-2/7.3.2
3. Grey Cast Iron valves not to be used as shell valves and shut-off valve for fuel oil tanks. Nodular Iron or Ductile Iron will be acceptable provided the material has an elongation not less than 12" in 50mm as indicated in ABS SVR 4-6-2/3.1.4.
4. All Valves to maintain a 4:1 Burst Test Ratio minimum for intended use.
5. Category "B" Valves not to be used on Fixed Fire Extinguishing System for ABS or USCG.
6. Category "B" Valves not to be used in Bilge System or as a Ship Shell Valve for USCG.
7. Category "A" and "B" Valves not to be used as Fuel Oil Tank Shut-Off Valves which will be subject to a Head of Oil.
8. The material for the Body, Disc, Stem and Seat are to be suitable for the Intended Service.
9. Not suitable for firefighting systems.

### **Comments**

1. Duplicate PDA resides with - Keystone Valve (Korea) LLC - KOREA.
2. The manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
3. The manufacturer of a valve is to guarantee that the valve is constructed to the standard and confirming to the identification to which it is marked. The manufacturer is to guarantee also that the valve has been tested before shipment to the pressure required by the pressure rating of the valve. The certificate of test is to be submitted upon request as indicated in ABS SVR 4-6-2/5.11.4.

### **Notes, Drawings and Documentation**

Drawing No. 4500372630\_ABS, Purchase Order 4500372630,

Drawing No. Korea Figures 129\_139 Dup PDA application, Request for Duplicated PDA,

Drawing No. Revalidation Figures 129, 139 Application-Form, PDA Application - Revalidation,

Drawing No. 2in - 6in BOMs fig 129

Drawing No. 8in -14in BOMs fig 129

Drawing No. 16in -20in BOMs fig 129

Drawing No. 3" Figure 129

Drawing No. 12" Figure 129

Drawing No. 20" Figure 129

Drawing No. USCG Acceptance

Drawing No. Client email

Supporting Documentation (previous task):

Keymc-0475-US-1103, 2011 Brochure Resilient Seated Butterfly Valve, Heavy Duty Cartridge Seat Design, Figure 129 & 139 Brochure

**Term of Validity**

This Product Design Assessment (PDA) Certificate 18-HS1806160-PDA, dated 20/Dec/2018 remains valid until 19/Dec/2023 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.

**ABS Rules**

The Rules for Conditions of Classification, Part 1 2018 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2018 Steel Vessels Rules 4-6-2/3, 4-6-2/5.11, 4-6-2/5.17, 4-6-2/7.3.2, 4-6-2/9, 4-6-4/13.5.3, 4-6-5/3.3.7

The Rules for Conditions of Classification, Part 1 2018 Offshore Units and Structures 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2018 Mobile Offshore Drilling Units Rules 4-2-1/11.17, 4-2-2/9, 4-2-2/17, 4-2-2/21, 4-2-5/3.9

**International Standards**

NA

**EU-MED Standards**

NA

**National Standards**

ASME B16.34 (2017)

**Government Standards**

46 CFR 56.20-15 Category A

**Other Standards**

NA





Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 18-Oct-2019 2:25

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

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 prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.