



CERTIFICATE NUMBER 24-0138929-PDA
EFFECTIVE DATE 17-Dec-2024
EXPIRY DATE 16-Dec-2029
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, High Performance Butterfly
Model: P1S Series, P1F Series, P1M Series, P1H Series
Endorsements:
Tier: 3 - Type Approved, unit certification not required

This Product Design Assessment (PDA) Certificate remains valid until 16/Dec/2029 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

Electronically Signed by:

John Vincent B. 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

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Product: Valve, High Performance Butterfly
Model: P1S Series, P1F Series, P1M Series, P1H Series
Endorsements:

Intended Service:
Marine & Offshore Applications

Description:

1. Type
 - 1.1. P1S: soft seat
 - 1.2. P1F: fire safe seat design
 - 1.3. P1M: metal seat design for specialized applications
 - 1.4. P1H: metal seat design for high temperature
2. Connection: Wafer, Lug
3. Sizes: 2 in to 48 in for Class 150, 2 in to 24 in for Class 300.
4. Material

Note: The materials below are standard, other materials are available in the P1 High Performance Brochure.

- 4.1. Body: A216 Gr. WCB, A351 Gr. CF8M
- 4.2. Disc: A351 Gr. CF8M
- 4.3. Seat: P1S - G2TFE, P1F - G2TFE/316L SST, P1M - 316L SST, P1H - Inconel 625
- 4.4. Shaft: 17-4 PH

Rating:

ANSI Class 150: Valve Sizes 2 in to 48 in
ANSI Class 300: valves Sizes 2 in to 24 in
P1F: API 607, P1M: API 6FA

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. Wafer type butterfly valves are not to be used as shell valve in accordance with 4-6-2/9.13.2 ii) of Marine Vessels Rules/Steel Vessels Rules.
3. P1F (Tested in accordance with API 607 7th edition), P1M (Tested in accordance with API 6FA, 4th edition), P1H (Metal seat design with Inconel 625) valves may be utilized in restricted service systems such as fire main, fuel oil and lube oil tank shut-off valves, and with oil tank remote closing systems.

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 the manufacturer's name or trademark, material identify, pressure rating, etc. at which the manufacturer guarantees the valves to meet the requirements of the manufacturer's 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 Marine Vessel Rules.
3. Testing done to API 6FA 4th edition, however API 6FA 4.1.5 allows for acceptance of previous testing.
4. Testing done to API 607 7th edition.

Notes/Drawing/Documentation:

Drawing No. API 607 Fire Test Report 8" Class 150, API 607 Fire Test Report - AT Controls- 8 inch Class 150 Series P1F HPBFV - Dec 20 2018, Revision: 0
Drawing No. API 607 Fire Test Report 8" P1F, API 607 Fire Test Report - A-T Controls - 8 inch Class 150 HPBFV (SS) P1F Series - Mar 2019, Revision: 0
Drawing No. Northwest Territories P1 Series CRN, Northwest Territories P1 Series CRN, Revision: 0

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Drawing No. Saskatchewan P1 Series CRN, Saskatchewan, Revision: 0
Drawing No. P1 Series Installation & Maintenance Manual, P1 Series IOM08072, Revision: 6/7/2023
Drawing No. Ontario P1 Series CRN, CRN 0C20331.5 - Ontario, Revision: 0
Drawing No. Quebec and Saskatchewan P1 Series CRN, Quebec - Saskatchewan, Revision: 0
Drawing No. API 6FA Fire Test 8" P1M, API 6FA Fire Test PIM 0800 certificate, Revision: 0
Drawing No. API 6FA Fire Test 2" Class 150, API 6FA Fire Test - AT Controls- 2 inch Class 150 Power-Seal High Performance Butterfly Valve - Dec 28 2018, Revision: 0
Drawing No. P02601, HPBFV Series P1 Body Dimensions for ASME B16.34-2017 Lug Material A216 WCB and A351 Gr CF8M-316, Revision: A
Drawing No. New Brunswick P1 Series CRN, New Brunswick P1 series CRN, Revision: 0
Drawing No. P02600, HPBFV Series P1 Body Dimensions for ASME B16.34-2017 Wafer Material A216 WCB & A351 Gr CF8M-315, Revision: A
Drawing No. API 6FA Fire Test 8", API 6FA Fire Test - AT Controls- 8 inch Class 150 HPBFV - Dec 2018, Revision: 0
Drawing No. Yukon P1 Series CRN, Yukon P1 Series CRN, Revision: 0,
Drawing No. Nova Scotia P1 Series CRN, Nova Scotia P1 series CRN, Revision: 0
Drawing No. Nunavut P1 Series CRN, Nunavut P1 series CRN, Revision: 0
Drawing No. API 607 Fire Test Report 3" Class 150, API 607 Fire Test Report - AT Controls- 3 inch Class 150 Power-Seal HPBFV - June 8 2018, Revision: 0
Drawing No. API 6FA P1M 2" Fire Test, API 6FA P1M 2 inch Class 150 Power-Seal HPBFV (SS) Lug Style Valve-April 2019, Revision: 0
Drawing No. Quebec P1 Series CRN, Quebec, Revision: 0
Drawing No. Power Seal SERIES P1 CRN Report - Calculations, Calculations - TR00205 revised, Revision: 12/6/2019
Drawing No. API 6FA Fire Test 3" Class 150, API 6FA Fire Test - AT Controls- 3 inch Class 150 Firesafe Power-Seal High Performance Butterfly Valve - June 8 2018, Revision: 0
Drawing No. Newfoundland - Labrador P1 Series CRN, Newfoundland - Labrador P1 series CRN, Revision: 0
Drawing No. P1 Series Brochure, HPBV-P1 Brochure, Revision: 0
Drawing No. Alberta P1 Series CRN, Alberta P1 series CRN, Revision: 0
Drawing No. API 6FA Fire Test 16", API 6FA Fire Test - AT Controls- 16 inch Class 150 HPBFV - Dec 2018, Revision: 0
Drawing No. Prince Edward Island P1 Series CRN, Prince Edward Island P1 series CRN, Revision: 0

Terms of Validity:

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STANDARDS

ABS Rules:

2024 Rules for Conditions of Classification: 1A-1-4/7.7, 1A-1-A3, 1A-1-A4, which covers the following:
2024 Rules for Building and Classing Marine Vessels: 4-6-2/ 5.11;

2024 Rules for Conditions of Classification - Offshore Units and Structures: 1B-1-4/9.7, 1B-1-A2, 1B-1-A3, which

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covers the following:

2024 Rules for Building and Classing Mobile Offshore Units: 4-2-2/9.1.1.

National:

ASME B16.34 - 2021

ASME B16.5 - 2020

ASME B16.47 - 2020

ASME B16.10 - 2022

API 6FA, 5th edition

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA