

DELTA T PRODUCTS

751 HOFF ROAD

O FALLON MO

United States 63366

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Tier: 2 - PDA Issued

Product: Valve, Butterfly**Model:** DELTA T Product Series 050/051/052 AND DELTA TAU Series 050D/051D/052D**Intended Service:**

Marine and Offshore Application - General Services including Bilge, Ballast, Fresh Water, Sea Water, Air, Inert Gas, Fuel Oil, and Lube Oil Systems

Description:

Wafer and Lug Types Butterfly Valves

Valves sizes:

Delta T (ANSI) 2" to 12" (Delta Tau (DN) 40 TO 300)

Delta T (ANSI) 14" to 24" (Delta Tau (DN) 350 TO 600)

Rating:

Valves sizes:

Delta T (ANSI) 2" to 12" (Delta Tau (DN) 40 TO 300)

Pressure rating: 200 psi (PTFE 150 PSI)

Delta T (ANSI) 14" to 24" (Delta Tau (DN) 350 TO 600)

Pressure rating: 150psi

Temperature rating is limited by seat material, see attached table.

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.

Other Service Restrictions are:

- 1) Valves of Ductile Iron are not to be used for temperatures 350 Deg.C and above as per SVR 4-6-2/3.1.4;
- 2) Ductile Iron may be used for Class II piping systems and for valves listed in SVR 4-6-2/3.1.3 provided it has an elongation of not less than 12% in 50 mm;
- 3) The material for body, disc, stem and seat are to be suitable for the intended service;
- 4) Materials rendered ineffective by heat are not to be used as shell valves in SVR 4-6-2/9.13.1;
- 5) Wafer type valves are not to be used in any connection to a vessel's shell. Butterfly valves with lugs, however, may be accepted in SVR 4-6-2/9.13.2;
- 6) EPDM seated valves are not to be used for oil & hydrocarbon services;
- 7) Valves are not to be used for applications where materials readily rendered ineffective by heat are not acceptable such as fire mains, unless the fire test report conforming to the latest edition of a recognized standard acceptable to ABS are submitted. (SVR 4-6-2/5.11.3 (c) & 4-7-3/1.11.1);
- 8) The subject valves may also be used and installed onboard USCG units after review and approval of system requirements for each installation.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Valves connected to the shell of the vessel are to be hydro statically tested, before installation, to a pressure of at least 5 bars, in the presence of the ABS Surveyor in SVR 4-6-2/7.3.2.

All valves 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 the manufacturer guarantees the valve 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 4-6-2/5.11.4 and 4-6-1/7.1.4 of the Steel Vessel Rules.

Notes/Drawing/Documentation:

Drawing No. 050_051_052 14-24in ABS_DNV Spec Drawing, Drawing 050_051_052 14-24in ABS_DNV Spec, Revision: 1, Pages: 6

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Drawing No. 050_051_052 2-12in ABS_DNV Spec Drawing, Drawing 050_051_052 2-12in ABS_DNV Spec,
Revision: 0, Pages: 6
Delta T Delta Tau Butterfly Valves_rev2, Delta T chart
DUP PDA_WCN
Procedure for BFV testing and inspection, rocedure for BFV testing and inspection
HYDROSTATIC SHELL AND SEAT TEST

Terms of Validity:

This Product Design Assessment (PDA) Certificate 15-HS1413487-PDA, dated 02/Dec/2015 remains valid until 01/Dec/2020 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.

STANDARDS**ABS Rules:**

Rules for Conditions of Classification, Part 1 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Steel Vessel 4-6-2/5.11;

2015 ABS Rules for Conditions of Classification, Part 1 – 2015 Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

Mobile Offshore Drilling Units 4-2-2/9;

National:

API Std 598 (2009), API Std 609 (2009)

International:

ISO 5211 (2001)

Government:

NA

EUMED:

NA

OTHERS:

MSS-SP-67 (2002), MSS-SP-25 (2013)