



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 21-MAY-2022. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

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.

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.

Product Name: Pipe Fittings

Model Name(s): Fittings: No.10, 11, 12, 13, 20, 25, 50, 60 & 732

Presented to:

VICTAULIC COMPANY
4901 KESSLERSVILLE ROAD
PA 18040
United States

Intended Service:

Marine & Offshore Applications - For Fresh, Sea Water Cooling, Bilge, Ballast, Fire Mains, Water Spray and Sprinkler Application, Compressed Air, Sanitary, Potable Water Systems & in Vents, Overflows & Sounding Piping.

Description:

Grooved End Fittings: No.10, 90 ° Elbows; No.11, 45 ° Elbows; No.12, 22½ ° Elbows; No.13, 11¼ ° Elbows; No.20, Tees; No.25, Reducing Tees, Grooved Branch; No.50, Concentric Reducers; No.60, Caps; Style 732, Wye Type Vic Strainer.

Tier:

3

Ratings:

See attached "pdf" for Sizes & Pressure (PSI/BAR).

Service Restrictions:

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. For General Shipboard Service to be in accordance with Part 4 Section 6 & 9 of the Rules: 1. Fresh Water System - in accessible locations only; 2. Sea Water Cooling Systems - in accessible locations only and inboard of required shell valves or where shell valves (or the equivalent) are not required; 3. Bilge Pipes - in accessible locations only & not in cargo holds or deep tanks; 4. Ballast Systems - in accessible locations only or when the pipelines pass through other ballast tanks; They are also acceptable on tankers for clean ordinary ballast lines provided the lines terminate in the pump room; 5. Fire Mains, Water Spray and

Sprinkler Applications; 6. Compressed Air Systems - in accessible locations; 7. Sanitary Systems - in accessible locations only and inboard of required shell valves; 8. Acceptable in Vents, Overflows & Sounding pipes in accessible locations provided they are not located in such a position that subsequent leakage would create hazards by way of fire, damage to electrical systems or cargo and by the release of noxious or toxic vapors in enclosed spaces; 9. Potable Water Systems - in accessible locations; 10. The components are to be installed in a location where leakage would not create a hazard by way of damage to electrical systems or otherwise create a hazard to the vessel, equipment or personnel onboard; 11. The components and gaskets (Victaulic Gasket Selection Data 05.01) are to be installed in accordance with the manufacturer's recommendation / limitations / requirements.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. Duplicate PDA resides with Victaulic Company - ALBURTIS, Dalian Bingshan Metal Technology - Dalian & Victaulic Polska SP. Zoo - DREZDENKO. The Pressure Ratings are based upon connecting of subject components with at least Standard Steel Piping (ASTM A-53 & 106). Materials of components is ASTM A-536;

Notes / Documentation:

Drawing No. 07.01, Victaulic Grooved End Fittings, Revision: -, Pages: 1 Drawing No. ABS TAC 04 HS469447A-6 PDA Attachment Fittings, Revision: -, Pages: 1 Drawing No. C-F-006-060-035, CAP, MACHINED, 3/4" / 26, 9mm THRU 12" / 323, 9mm NO 60, 60A, 460DX, Revision: P, Pages: 1 Drawing No. C-F-010-020-003, TEE, AS CAST, 1" / 33,7mm NO 20, Revision: G, Pages: 1 Drawing No. C-H-030-732-103, CAP 3" / 88, 9mm SERIES 732, Revision: N, Pages: 1 Drawing No. C-H-040-732-103, CAP 4" / 114, 3mm SERIES 732, Revision: Q, Pages: 1 Drawing No. C-H-060-732-103, CAP 6" / 168, 3mm SERIES 732, Revision: J, Pages: 1 Drawing No. D-V-020-732-100, STRAINER ASSEMBLY, WYE TYPE, CAST, 2" / 60, 3mm THRU 12" / 323, 9mm SERIES 732, Revision: S, Pages: 1 Supporting Data (previous task T1084385): Dwg List as per letter dated 26 June 2012, Task 909917 and letter dated 24 February 2014, Task T1084385;

Term of Validity:

This Product Design Assessment (PDA) Certificate 17-HS1623493-PDA, dated 22/May/2017 remains valid until 21/May/2022 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:

2017 Steel Vessels Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/5.9, 4-6-2/5.5; 2017 Under 90 Meter Rules: -1-4/7.7, 1-1-A3, 1-1-A4, 4-4-2/13.7 2017 Mobile Offshore Drilling Unit Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-1/11.13;

National Standards:**International Standards:****Government Authority:****EUMED:****Others:****Model Certificate****Model Certificate No****Issue Date****Expiry Date**

PDA

17-HS1623493-PDA

24-MAY-2017

21-MAY-2022



ABS Programs

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 was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further

unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. 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.