



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 06/JUN/2021. 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 21/AUG/2021 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: Flexible Pipe Coupling & Joint
Model Name(s): Style 177N Quick Vic Flexible Couplings

Presented to:

VICTAULIC COMPANY
4901 KESSLERSVILLE ROAD
United States

Intended Service:

Marine & Offshore Application - 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. 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;

Description:

Style 177N Quick Vic Flexible Couplings

Ratings:

Sizes: 2" (50 mm) to 8" (200 mm) 232 psi (16 bar) Grade EHP (EPDM) Gasket Material See Attachment for More Details

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. 1. 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; 2. The components and gaskets (Victaulic Gasket Selection Data 05.01) are to be installed in accordance with the manufacturer's recommendation / limitations / requirements. 3. Size 2-1/2" and larger fittings are not to be used where pressure pulsation is expected in accordance with 4-6-2 / Table 12 Note 1.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Pressure Ratings are based upon connecting of subject components with at least Standard Steel Piping (ASTM A-53 & 106). Materials of Components is Ductile Iron conforming to ASTM A-536, Grade 65-45-12 Applications of Mechanical Joints as per 4-6-2/table 10 of the SVR

Notes / Documentation:

ABS Test Matrix 177N Couplings 020315, Test Matrix, Revision: -, Pages: 1 C-000-177N-000, Coupling Assembly, 3/4" / 26,9mm Thru 6" / 168,3mm Style 177N, Revision: B, Pages: 1 G-020-177N-002, Gasket, 2" / 60,3mm Style 177N, 107N, Revision: C, Pages: 1 G-024-177N-002, Gasket, 2-1/2" / 73mm Style 177N, 107N, Revision: C, Pages: 1 G-030-177N-002, Gasket, 3" / 88,9mm Style 177N, 107N, Revision: C, Pages: 1 G-040-177N-002, Gasket, 4" / 114,3mm Style 177N, 107N, Revision: C, Pages: 1 G-050-177N-002, Gasket, 5" / 141,3mm Style 177N, 107N, Revision: C, Pages: 1 G-060-177N-002, Gasket, 6" / 168,3mm Style 177N, 107N, Revision: C, Pages: 1 H-020-177N-001, Coupling Housing, Casting, 2" / 60,3mm Style 177N, Revision: E, Pages: 1 H-024-177N-001, Coupling Housing, Casting, 2-1/2" / 73mm Style 177N, Revision: E, Pages: 1 H-030-177N-001, Coupling Housing, Casting, 3" / 88,9mm Style 177N, Revision: E, Pages: 1 H-040-177N-001, Coupling Housing, Casting, 4" / 114,3mm Style 177N, Revision: F, Pages: 1 H-060-177N-001, Coupling Housing, Casting, 6" / 168,3mm Style 177N, Revision: E, Pages: 1

Term of Validity:

This Product Design Assessment (PDA) Certificate 15-HS1326363-PDA, dated 22/Aug/2016 remains valid until 21/Aug/2021 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:

Steel Vessel Rules (2016) 1-1-4/7.7, 1-1-A3 & A4; 4-6-2/5.9 Mobile Offshore Drilling Units (2016) 1-1-4/9.7, 1-1-A2 & A3, 4-2-1/11.13

National Standards:

ASTM A536-84(2014)

International Standards:**Government Authority:****EUMED:****Others:**

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	15-HS1326363-PDA	25/AUG/2016	21/AUG/2021



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.