



Confirmation of Product Type Approval 14/FEB/2011

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

This is to certify that, 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 20/NOV/2013. 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 10/JAN/2015 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.

TIDES MARINE INC.

Model Name(s): Tides Marine Model HA-PB, Housing Adapter with Pneumatic Bladder

Presented to:

TIDES MARINE INC.
3251A S.W. 13TH DRIVE
DEERFIELD BEACH
United States

Intended Service:

For creating a Drive Shaft through-hull Flange with a Hose connection, which is Sealed with a Pneumatic Bladder, for New Construction and Retrofits, on Pleasure or Commercial Craft.

Description:

A Flanged through-hull Assembly which can be attached to the Hull, or to an existing through-hull Flange. The Assembly contains a Pneumatic Bladder for Sealing the Drive Shaft during Maintenance and Repairs. This Assembly has a Hose Fitting designed to accept the Hose associated with the SureSeal System Model FSK.

Ratings:

For Drive Shaft Size Ranges: from 4"-8", or 100mm - 205mm.

Service Restrictions:

Unit Certification is not required for this product.

Comments:

None

Notes / Documentation:

This Product Design Assessment (PDA) 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. Use in a non-classed vessel, MODU or Facility is to be to the satisfaction of the manufacturer and purchaser.

Term of Validity:

This product/model is covered under Product Design Assessment (PDA) Certificate # 10-HS537949-PDA, dated 11/Jan/2010. This PDA Certificate expires 10/Jan/2015. It will remain valid for 5 years from date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first). It is

valid for all vessels contracted on or before the date of the Rules used in this evaluation.

ABS Rules:

2010 Steel Vessels Rules 1-1-4/7.7; 1975 Rules for Aluminum Vessels, Section 32; 1978 Rules for Reinforced Plastic Vessels, Section 18.4; 2000 Guide for Motor Pleasure Yachts Section 19.9 & 20.3.3f

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

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	10-HS537949-PDA	11/JAN/2010	10/JAN/2015


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.