



CERTIFICATE NUMBER
16-HS1523861-PDA

DATE
23 May 2016

ABS TECHNICAL OFFICE
Houston SED Machinery -
Equipment

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
PYI INC.

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: **Packing, P.S.S. (Packless Sealing System) Mechanical Face Se...**

Model: **PSS**

This Product Design Assessment (PDA) Certificate 16-HS1523861-PDA, dated 23/May/2016 remains valid until 22/May/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.

AMERICAN BUREAU OF SHIPPING


Tim Kimble
Engineer/Consultant

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 the terms and conditions as contained in ABS Rules 1.1 A3/3.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

PYI INC.

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Web: www.pyiinc.com

Tier: 2 - PDA Issued

Product: Packing, P.S.S. (Packless Sealing System) Mechanical Face Seal**Model:** PSS**Intended Service:**

Sealing Inboard Drive Shafts on Pleasure and Commercial Craft for both New Construction and Retrofit.

Description:

A Mechanical Face Seal Device that replaces the Stuffing Box. Inflatable bladder arrangement is available for seal inspection/maintenance and emergency purpose for vessels up to a length of 200 ft;

Rating:

For Drive Shaft Sizes from 3/4" through 6" (20mm -150mm).

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.

Comments:

- 1). Units should be visually inspected by the Surveyor during annual survey, with particular attention given to the stainless steel rotors, the nitrile bellows and carbon/graphite flanges. These are to be replaced if deemed necessary.
- 2). The Manufacturer's recommended installation procedures are to be followed.

Notes/Drawing/Documentation:

See Attached Sheet.

Terms of Validity:

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STANDARDS**ABS Rules:**

Rules for Conditions of Classification, Part 1, 2016 Steel Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4 which Covers the following:

2016 High Speed Craft: 1-1-4/11.9, 1-1-Appendix 2 and 3

2016 Part 2, Rules for Materials and Welding - Aluminum and Fiber Reinforced Plastics (FRP): 2-6-4/9, 4-3-1/3

2016 Yachts Guide: 4-1-1/3.3, 4-3-1/3

National:

NA

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Tier: 2 - PDA Issued

International:
NA

Government:
NA

EUMED:
NA

OTHERS:
NA