



CERTIFICATE NUMBER

DATE

03-HG351280-3-PDA

05 February 2013

ABS TECHNICAL OFFICE

Hamburg Engineering Department

## CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**PROFISEAL GMBH - D-55288 SCHORNSHEIM**

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: **Stern Tube Seals**

MODEL: **ProfiSeal**

This Product Design Assessment (PDA) Certificate 03-HG351280-3-PDA, dated 05/Feb/2013 remains valid until 04/Feb/2018 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

  
Wulf-Peter Senebald  
Engineer

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-A35.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

# Approval Certificate



This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the GL Approval System.

Certificate No. 43 130 - 02 HH

Company ProfiSeal GmbH

Mühlerstrasse 13  
55288 Schornsheim, GERMANY

Product Sterntube Seal (Water and Oil lubricated)

Type ProfiSeal

Technical Data / Application Sterntube seals for closed systems with oil lubrication and for open systems with water lubrication on GL classed ships, special service crafts and pleasure boats

For shaft diameter 20-90mm and 100-180mm

Approval Standard GL Rules Part 1, Chapter 2, Section 4, D

Documents See Ref.-No. 117135/02/CKB

Remarks Material tests and final testings have to be carried out, so far as required. Each application has to be notified in written form to the society.

Valid until 2018-01-11

File No. XI.J.07

**Germanischer Lloyd**

Hamburg, 2013-01-11

Dr. Dimitrios Sideris

Stanislav Avanesov



## Type Approval Certificate Extension

*This is to certify* that Certificate No. 99/20055 (E2) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

|                    |   |
|--------------------|---|
| <b>PRODUCER</b>    | ProfiSeal GmbH<br>Mühlerstraße 13<br>55288 Schornsheim<br>Germany   |
| <b>DESCRIPTION</b> | Stern tube seals for water- and oil lubricated propeller shafts with and without Pneumostop (stand still seal)  |
| <b>TYPE</b>        | 1) 10.00X.XXX.X0XA - Stern tube seals ProfiSeal for shaft diameters from 20 mm to 90 mm<br>2) 10.00X.XXX.X0XA - Stern tube seals ProfiSeal for shaft diameters from 80 mm to 280 mm     |
| <b>APPLICATION</b> | Stern tube seals for closed systems with oil lubrication and for open systems with water lubrication on Lloyd's Register classed ships as well as for yachts and special service crafts |
| <b>STANDARD</b>    | Lloyd's Register Rules and Regulations for the Classification of Ships, 2014  |
| <b>RATINGS</b>     | Leakage rate: nil<br>Temperature: oil max. 80° C, water max. 40° C<br>Pressure: 1) 0.05 to 1.5 bar, 2) 0.05 to 7.0 bar  |

|                 |                 |
|-----------------|-----------------|
| Certificate No. | 99/20055 (E3)   |
| Issue Date      | 30 January 2015 |
| Expiry Date     | 31 October 2019 |
| Sheet           | 1 of 2          |



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