

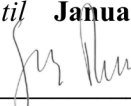


TYPE APPROVAL CERTIFICATE
No. MAC328921XG/001

This is to certify that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	Sterntube seals
<i>Type</i>	PRIME - PRIMAIR
<i>Applicant</i>	AEGIR-MARINE BV MOLENVLIET 34 3961 MV WIJK BIJ DUURSTEDE NETHERLANDS
<i>Manufacturer</i>	AEGIR-Marine - Production BV
<i>Place of manufacture</i>	MOLENVLIET 34 3961 MV WIJK BIJ DUURSTEDE NETHERLANDS
<i>Reference standards</i>	Part C, Chapter 1, Section 7 of RINA Rules for the Classification of Ships
<i>Reference documents</i>	RINA TYPE APPROVAL SYSTEM

Issued in **HAMBURG** on **January 5, 2022.** *This Certificate is valid until* **January 4, 2027**



RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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PRIME - PRIMAIR

Reference Documents

Technical drawings approved with no. HMMC-7359 and Test Reports filed with HMMC7465 on 27 Sept 2016

Fields of application

PRIME and PRIMAIR type Standard & Secure Internal and External Oil lubricated stern tube seals.

· **Standard type**

Outer and inner sterntube seals ; composed of three lip-seals on the outer seal, and two lip-seals on the inner seal.

· **Secure type**

Outer and inner sterntube seals ; composed of four lip-seals on the outer seal, and two lip-seals on the inner seal.

PRIME type options: - the aft seal could be fitted with an Aft Protection System.

- the aft seal could be fitted with a spacer ring (split or non-split execution)

The **PRIMAIR** type aft seal is fitted with an air regulated pressure chamber and a drain collection unit to avoid external oil leakage

Materials / Components

See Material Specification of approved drawings.

Technical Characteristics

PRIME type: Seal Size 125 to 1250 for propeller shaft diameters: 115-1150 mm.

PRIMAIR type: Seal Size 450 to 1250 for propeller shaft diameters: 426-1150 mm.

Acceptance conditions

For each application an information letter, with indicated the type of seal used, is to be sent to RINA Plan Approval Office in charge of relevant plan approval activities.

The installation on board is to be made in accordance with manufacturer instructions.

The acceptance of the above product on board ships and other units classed with RINA is subject to the satisfactory outcome of testing as per RINA Rules.

The present Type Approval Certificate annuls and replaces the previous one MAC127116XG/001.

HAMBURG January 5, 2022

