Certificate No: RTD03789-SE001

# Type Approval Certificate



# [ Stern Tube & Thruster Sealing Device ]

Initial Approval 30 July 1997

Manufacturer Lagersmit Sealing Solutions BV

Nieuwland Parc 306, 2952 DD Alblasserdam, The Netherlands

Product Description Model : SUPREME Series

Type : STA, SVA, SG, SGV, STF, LDA, LDF,

TS3, TS4, TSV4, SAA, SGA

Intended for : Oil and/or Grease Lubricated Shafts

" See Appendix 1 '

Approval Condition See Appendix 1 "

**THIS IS TO CERTIFY** that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt 5, Ch 3, Art 206 of the Rules for the Classification of Steel Ships

This Certificate is valid until 7 December 2029 Issued at Busan, Korea on 31 January 2025



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "http://e-cert.krs.co.kr" by using the tracking No(ME25004227060) and certificate No.(RTD03789-SE001).



**KOREAN REGISTER** 

General Manager of Marine & Ocean Equipment Team

Note: 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.

<sup>2.</sup> This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.

<sup>3.</sup> Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.

<sup>4.</sup> Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Appendix 1 Certificate No : RTD03789-SE001

# **Product Description and/or Approval Condition**

Date of Issue: 31 January 2025

# A. Product Description

# 1. Product Specification

Type	Size (mm)	Approved Drawing No.	P&ID	Datasheet (Spec. No.)	Remark
STA* SVA* SG*	110 ~1250 110 ~1250 110 ~1250	TA-SUP-X01_C TA-SUP-X05_E TA-SUP-X10_C	PID-STA_STF_E PID-SVA-MK0217_J PID-SG_H PID-SG-R-B	04-10-100 (05/10/20) 04-12-100 (05/10/20) 04-20-100 (08/10/20)	Aft seal ass'y Aft seal ass'y Aft seal ass'y
SGV* STF* LDA*	110 ~1250 110 ~1250 110 ~ 260	TA-SUP-X15_C TA-SUP-X20_C TA-SUP-B30_D	PID-SGV-MK2017_K PID-STA-STF_E PID-LD_C PID-LD-G A	04-25-100 (08/10/20) 04-15-100 (05/10/20) 04-30-100 (26/10/23)	Aft seal ass'y Fwd seal ass'y Aft seal ass'y
LDF*	110 ~ 240	TA-SUP-B31_D	PID-LD_C PID-LD-G A	04-35-100 (26/10/23)	Fwd seal ass'y
TS3* TS4* TSV4* SAA* SGA*	155 ~ 850 155 ~ 850 155 ~ 850 110 ~ 380 110 ~ 380	TA-SUP-X40_C TA-SUP-X41_D TA-SUP-X43_D TA-SUP-X60_B TA-SUP-X65_B	PID-TS3_B PID-TS4_B PID-TSV4_D PID-SAA-2017_C PID-SGA-2017_C	- - 04-60-100 (05/10/20) 04-65-100 (05/10/20)	Thruster seal Thruster seal Thruster seal Aft seal ass'y Aft seal ass'y

<sup>\*</sup> Lip Seal Options : FKM(Viton) and FKM-EAL

## 2. Approved Drawings and Documents

As above.

#### 3. Test Reports, etc.

1) Type test report intended for SUPREME seals dated from 5 Nov. to 18 Dec. 2015 at Lagersmit manufacturing facility.

# **B.** Approval Condition

#### 1. Application & Limitation

- 1) The onboard installation test and survey are to be carried out in accordance with the Rules of the Society and to be satisfied by the attending Surveyor.
- Environmentally Acceptable Lubricants (EALs) may only be used according to manufacturer's standard lubricant list.

## 2. Individual Product Cert. and Drawing Approval Requirement

1) Individual product certification is not required.

#### 3. Marking

1) The product or packing is to be marked with manufacturer's name or trademark and type number designation on a suitable position.

#### 4. Others

1) The manufacturer takes the responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

< End of Certificate >

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