

# TYPE APPROVAL CERTIFICATE No. MAC150423PU

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

Description

Sterntube seals

Type

KEMEL COMPACT SEAL

KEMEL CX

KEMEL DX

**Applicant** 

EAGLE INDUSTRY CO., LTD.

2-13-23, Shinhama, Arai-cho, Takasago-shi

676-0008 Hyogo-Ken

**JAPAN** 

Manufacturer

EAGLE INDUSTRY CO., LTD.

Place of manufacture

2-13-23, Shinhama, Arai-cho, Takasago-shi

676-0008 Hyogo-Ken

**JAPAN** 

Reference standards

Part C, Chapter 1 Section 7 of RINA Rules

Reference documents

RINA TYPE APPROVAL SYSTEM

Issued in BUSAN on December 1, 2023. This Certificate is valid until November 30, 2028



Young-Kwang Kim

RINA Services S.p.A.

This certificate consists of this page and 1 enclosure.

# TYPE APPROVAL CERTIFICATE No. MAC150423PU Enclosure - Page 1 of 1 KEMEL COMPACT SEAL

#### Reference documents

- The Eagle industry drawings no.DX-0301 & CX-0301 approved with no.PUMC-21833 on 01/12/2023.

### Materials

- As per the above mentioned approved drawings.

#### Technical characteristics

- According to drawings.
  - 1) CX: Standard const. with 3 sealing rings in AFT seal and 2 sealing rings in FWD seal. (applicable shaft diameter from 80 mm up to and including 1130 mm)
- 2) DX: Double security const. with 4 sealing rings in AFT seal and 2 sealing rings in FWD seal. (applicable shaft diameter from 110 mm up to and including 1130 mm)
- The seals are applicable on the ships having MON-SHAFT (Tailshaft Monitoring System) notation.

# Fields of application

- Seals for oil lubricated propeller shaft
- Seal size ;
  - 1) KEMEL CX type; 125 mm to 1180 mm
- 2) KEMEL DX type; 140 mm to 1180 mm

#### Acceptance conditions

- For each application the relevant constructional drawings are to be sent to RINA Busan office.
- The installation on board is to be made in accordance with the manufacturer's instructions.
- The acceptance of the a.m. products on board ship and other unit classed with RINA is subject to the satisfactory outcome of testing as per RINA rules.

## Remarks:

- This certificate can be withdrawn in case of unsatisfactory working results of products, changes in RINA Rules or Law Acts coming into force.
- The society must be kept informed of any changes in the product characteristics.
- This certificate annuls and replaces the certificate no.MAC126218PU on 22/10/2018.



**BUSAN December 1, 2023** 

