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# Nesign Appraisal Document

Lloyd's Register EMEA **Engineering Systems** Willy-Brandt-Straße 59-65 20457 Hamburg Germany

25 September 2024

Please quote this reference number on all future communications

TSO/24-018237-P-1

#### MACHINERY GENERAL DESIGN APPRAISAL

FLANGES FOR ACOUSTIC POSITIONING SYSTEMS DN700 d26 holes, DN500, DN500 d26 holes, DN350

MANUFACTURER: KONGSBERG AS

This Machinery General Design Appraisal is valid until 24 September 2029 or until a change of the Rules occurs, whichever comes first.

- The document(s) listed in paragraph 1 of the appendix has/have been examined for 1. compliance with Part 3 and Part 5, Chapter 12 and 13 of the Lloyd's Register's Rules and Regulations for the Classification of Ships, July 2024, and is/are assigned an appraisal status as indicated, in accordance with the following conditions:-
- 2. System Details

Class Ship-side valves

Design Pressure Open ended Test Pressure Minimum 5 bar

Materials According to plans noted in the Appendix 1

> Tube/Pipe > 500 mm nominal: 3.2 certificate Tube/Pipe ≤ 500 mm nominal: 3.2 or 3.1 certificate

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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#### 3. Comments

- 3.1 The items referred to in this document are approved for installation o a ship which is classed by Lloyd's Register.
- 3.2 Lloyd's Register must be advised of any design or material modifications. Failure to do so will render this general approval invalid.
- 3.3 The validity of this Machinery General Design Appraisal expires as shown on page 1 of this Design Appraisal Document respectively change of Rule requirements, whichever comes first.



Johannes Wiegel Global Technical Support Office **Lloyd's Register EMEA** 

R031.2022

Johannes Wiegel Senior Specialist Engineering Systems Lloyd's Register EMEA T +49 (0)40 349 700 10 216 E johannes.wiegel@lr.org

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Lloyd's Register EMEA Engineering Systems Willy-Brandt-Straße 59-65 20457 Hamburg Germany Date **25 September 2024** 

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## **Appendix**

1. The documents listed below have been examined

Document No.	Rev.	Title	Status	Date
362973	A01	Mounting Flange DN500 d26 holes	АМ	25-Sep-2024
599-082973	E01	Mounting Flang DN500	AM	25-Sep-2024
599-044140	D01	Mounting Flange DN350	Α	25-Sep-2024
362992	A01	Mounting Flange DN700 d26 holes	AM	25-Sep-2024

2. The documents listed below have been considered together with the submitted documents in the appraisal

Document No. Rev. Title

CTS-M/I110748\_H/110747 0

**Marine Design Appraisal Document** 

- . The documents previously appraised in earlier submissions, now listed in paragraph 1 above, are superseded.
- 4. Documents not mentioned above are not required for appraisal or as supporting documentation and have not been retained.

### Appraisal Status Key

Approved – provided the arrangements are to the surveyor's satisfaction

AM Approved as amended – provided the arrangements are to the surveyor's satisfaction

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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