Certificate No: LR23150986TA
Issue Date: 19/03/2024
Expiry Date: 01/09/2026

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**KSB SAS**
Address	10 rue Rémora, Gradignan, 33170, France
Place of Production	KSB SAS 10 rue Rémora, Gradignan, 33170, France
Type	Low Temperature Valves
Description	Triple Offset valves Type: TRIODIS 300 version MT& CRYO
Trade Name	TRIODIS 300 version MT& CRYO
Application	Marine
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships 2021. LR Rules for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk 2021(incorporating the IMO IGC Code) ANSI B16-34 EN 12516 IGF Code
Ratings	Max. working pressure: 50 bar

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Mohamed Mohamed Rila

Team Lead - Environmental Discipline to
Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Operating temperature range:
MT version -46˚C to +260˚C
CRYO version -196˚C to +200˚C
Nominal diameter: 3" to 20"

Other Conditions

1. Valves are to be selected, installed and tested in accordance with the manufacturer's instructions and applicable International Code & Lloyd's Register's Rules and Regulations. The valve materials are to suitable for the intended service conditions.
2. recommendations and LR's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12.
3. Material impact test and wed-non-destructive tests are to be carried out in accordance with the LR Rules for Materials.
4. The valve materials are to be suitable for the intended service condition.
5. The valves are to be marked with the following information:

- Manufacturer's name or trademark
- Type
- Ratings & Direction of flow

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR23150986TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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