Certificate No: LR25283816TA
Issue Date: 27/10/2025
Expiry Date: 26/10/2030

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	**Tofle Co., Inc.**
Address	886-1, Aza Shiragami, Kawakami, Hagi-shi, Yamaguchi, 758-0141, Japan
Place of Production	Tofle Co., Inc. 886-1, Aza Shiragami, Kawakami, Hagi-shi, Yamaguchi, 758-0141, Japan
Type	Expansion Joints
Description	Double-wall Stainless Steel Bellows Expansion Joint
Trade Name	YT-65100
Application	Marine Piping systems: Gas fuel lines at DF engines
Specified Standard	Part 5, Chapters 2 & 12 of Lloyd's Register's Rules and Regulations for the Classification of Ships (July 2025) Rules and Regulations for the Classification of Ships using Gases or other Low-flashpoint Fuels (July 2025) EJMA Standards, 5th Edition
Ratings	Nominal Diameter : 100A Design Pressure : 0.7MPa

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Satoshi Ueno

Engineering Decarbon/Machinary Specialist
to Lloyd's Register Group Limited
A member of the Lloyd's Register group

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

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Other Conditions

1.
The metallic Expansion Joint are to be made, installed and tested as required by the Rules and found to function under working conditions all to the attending Surveyor's satisfaction.
2.
It is noted that this metallic expansion joint intended to convey LPG, LNG and fuel gas is to be categorised as Class II piping system. 3. Welding and non-destructive testing are to be in accordance with Part 5, Chapter 17 of the Rules, to the attending Surveyor's satisfaction.4. The calculated maximum value of axial and lateral movements at design full cycles are not to be exceeded.5. Piping system drawings and calculation notes are to be submitted for review whenever expansion bellows are fitted on board LR classed ships.
This is to certify that Certificate No. LR2037156TA is extended and renumbered as shown.

All other details remain as the previous Certificate No. LR2037156TA to which this extension should be attached.

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 Group Limited of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2037156TA

The Design Appraisal Document LR25283816TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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