

Type Approval Certificate Extension

This is to certify that Certificate No. 03/10023(E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER

Tofle Co., Inc.

886-1, Aza-Shiragami, Kawakami, Hagi City,

Yamaguchi, 758-0141, Japan

PLACE OF

Tofle Co., Inc.

PRODUCTION

886-1, Aza-Shiragami, Kawakami, Hagi City,

Yamaguchi, 758-0141, Japan

DESCRIPTION

TF-type stainless steel flexible hoses

TYPE

MWN800001-A, MWN800002-A, MWN800003-A, and MWN800004-A

APPLICATION

Marine use for cargo piping systems in ships for the carriage of liquefied

gases in bulk, and for onboard temporally connection

DESIGN CODE STANDARD IMO MSC Resolution 103(73)

Lloyd's Register (LR) Rules and Regulations for the Construction and

Classification of Ships for the Carriage of Liquefied Gases in Bulk (July

2017), Chapter 5 incorporating the IMO IGC Code

RATINGS

Nominal pipe diameters

: 6A, 25A, 32A, 40A, 200A, 250A

Design pressure

: 1.0 MPa

Design temperature range

: -163 ~ +80 °C

Certificate No.

03/10023(E4)

Issue Date

10 April 2018

Expiry Date

9 April 2023

Sheet

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N. Terashita
Yokohama Technical Support Office
Lloyd's Register Group Limited

N. Terashita Yokohama Technical Support Office Lloyd's Register Group Limited

Lloyd's Register Group Limited QTA 10F, 2-3-1, Minatomirai, Nishi-ku, Yokohama, JAPAN

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OTHER CONDITIONS

Where the hoses are intended to be fitted in cargo piping systems in ships for the carriage of liquefied gasses in bulk, classed with Lloyd's Register (LR), the following conditions are applicable:-

- 1) The materials used in the construction of hoses are to be in accordance with Chapter 6 of LR Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk and Part 5, Chapter 12, Section 9 of LR Rules and Regulations for the Classification of Ships.
- 2) The hoses are to be examined and tested to the satisfaction of LR's Surveyors.
- 3) The hoses are to be installed in accordance with the manufacturer's instructions.

"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."

The attached Design Appraisal Document No. 03/10023(E4) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 03/10023(E3) to which this extension should be attached.

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N. Terashita Yokohama Technical Support Office Lloyd's Register Group Limited

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