Certificate No: LR21152572TA
Issue Date: 22/04/2021
Expiry Date: 13/09/2025

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	**Thor Sud S.p.A.**
Address	Via M. Bellisario, 54, San Salvo - CH -, 66050, Italy
Type	Flexible Hoses
Description	Mandrel built tank cleaning hose designed for cleaning of tanks with the application of rotating head. Normally assembled with BUTTERWORTH couplings. Due to its peculiar structure the hose in working condition is not subject to elongation.
Trade Name	DELAWARE 30N
Application	For cleaning of oil and chemical tanks in the marine environment.
Specified Standard	International Safety Guide for Oil Tankers and Terminals (ISGOTT) 6th Ed. Par. 12.3.6 Manufacturer specifications: DELAWARE 30N Control Plan (ISO 1402; ISO 1817; ISO 48; ISO 37; ISO 7326 method 3; ISO 8031; ISO 10619-1)

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Torsten Schroeder

Senior Specialist 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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Ratings	Inner diameter [mm]	Outside diameter [mm]	Working pressure [bar]	Temperature range [°C]
	38	54	20	-30 to 95
	51	67	20	-30 to 95

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.

Previous Version: 15/20097

The Design Appraisal Document HTS/ENS 33296-15, Issue No. 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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