

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	Tubi Thor SpA
Address	Via Caduti per la Patria 83, Lesmo, 20855, Italy
Place of Production	Thor Sud S.p.A. Via M. Bellisario, 54, San Salvo - CH -, 66050, Italy
Place of Production	Tubi Thor SpA Via Caduti per la Patria 83, Lesmo, 20855, Italy
Type	Flexible Hoses
Description	Fire resistant fuel hoses for small craft. Type 1 with a permeation rate greater than 15 g/m ² per 24 h but less than 100 g/m ² per 24 h
Trade Name	CARBOPOMP/M I5T, CARBOPOMP/M I5C, CARBOPOMP/M I5N
Application	Fuel hose for small crafts of hull length up to 24 m
Specified Standard	ISO 7840:2021 (Small craft – Fire-resistant fuel hoses) SAE J 1527: 2011 (Marine Fuel Hoses)

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Ratings

Design pressure (bar): 2,5
Temperature range (°C): -20 to +80
CARBOPOMP M I5T Internal diameter (mm): 6 to 63
CARBOPOMP M I5C Internal diameter (mm): 25 to 60
CARBOPOMP M I5N Internal diameter (mm): 16 to 60

Other Conditions

Prototype pressure tests are to be carried out on each new type of hose and end fitting. The bursting pressure is to be not less than four times the maximum pressure in service.

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: 17/20103

The Design Appraisal Document HTS/ENS 36815-17, issue 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.