



## 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.

<b>Manufacturer</b>	<b>Tubiflex S.p.A.</b>
<b>Address</b>	Strada Torino, 25, Orbassano To, 10043, Italy
<b>Type</b>	Flexible Hoses
<b>Description</b>	Non-metallic PTFE flexible hose assemblies Conductive and non-conductive  Type: Tubiflon: TX.M.8850.50 - TX.M.885V.50 - TX.M.885S.50 - TX.M.885VS.50 TX.M.8850.51 - TX.M.885V.51 - TX.M.885S.51 - TX.M.885VS.51
<b>Application</b>	Marine, offshore and industrial applications
<b>Specified Standard</b>	LR Rules and Regulations for the Classification of Ships
<b>Ratings</b>	Nominal diameter (inch): 3/8 to 3 Temperature range (°C): -55 to 250 Nominal pressure (bar): See specification pages D10

**Fabrizio Cadenaro**

Lead Technical Specialist - Alternative Fuels  
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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## Type Approval Certificate

### Other Conditions

Hoses are to be selected and installed in accordance with the manufacturer's instructions and recommendations.

For use on ships, hoses are to be also selected in accordance with LR's Rules and Regulations for the Classification of Ships, Part 5, Chapter 12, Section 7  
Hose screwed end connections are limited to sizes up to 2" (51mm).

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:** 02/00099 (E4)

The Design Appraisal Document LR22510490DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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LR22510490DA  
19/12/2022  
18/12/2027  
PRJ11100363456

## LLOYD'S REGISTER TYPE APPROVAL – DESIGN APPRAISAL DOCUMENT

**Issue by:** Trieste Technical Support Office

**Issued to:** Tubiflex SpA

**For:** NON-METALLIC PTFE FLEXIBLE HOSE, TYPE TUBIFLON

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 04 (September 2020) and this Design Appraisal Document forms part of the **Certificate No LR22510490TA**.

### APPROVAL DOCUMENTATION

Application Checklist	25/10/2022
Request for Marine Service TAC – 2022/139-SQ290329	26/10/2022
Request for Marine Service TAC – 2023/011-SQ 357148	13/02/2023
Production Quality Assessment Form PRJ11100363456-1	08/04/2022
ISO 9001:2015 n. SGQ 1568	Expiring date 05/10/2024
Catalogue_TX.T.88XX.XX_D10_rev 04-1	

### TEST REPORT

Oil resistance test (J19693_T1711021A)	02/10/2017
Pressure resistance test (T2002201B_J26397)	18/03/2020

Previous documentation as listed in Design Appraisal Document 02/00099, 02/00099(E1), 02/00099(E2), 02/00099(E3) and 02/00099(E4)

### Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

### **Fabrizio Cadenaro**

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