



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	Tubiflex S.p.A.
Address	Strada Torino, 25, Orbassano To, 10043, Italy
Type	Flexible Hoses
Description	Flexible metal hose assembly with external wire braiding. Parflex: SP.M.9650 - SP.M.9655 - SP.M.9750 - SP.M.9755 - SP.M.5650 SP.M.5750 - SP.M.5750S - SP.M.4750 - SP.M.4755 Superflex: SX.M.9150 - SX.M.9155
Application	Marine, offshore and industrial applications.
Specified Standard	LR Rules and Regulations for the Classification of Ships
Ratings	Parflex: Nominal diameter (inch): 1/4 to 12 Temperature range (°C): -200 to 550 Nominal pressure (bar): See specification documents B10, B20, B100, B110, B120, SP5750S_DN8.

Fabrizio Cadenaro

Lead Technical Specialist - Alternative Fuels
to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Superflex:
Nominal diameter (inch): 1/8 and 1/4
Temperature range (°C): -200 to 550
Nominal pressure (bar): See specification document C10

Other Conditions

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

For use on ships, hoses are also to be 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: 02/00098(E3)-03

The Design Appraisal Document LR22510293DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Page:
Certificate No:
Issue Date:
Expiry Date:
Reference:

1 of 1
LR22510293DA
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: FLEXIBLE METAL HOSE ASSEMBLY WITH EXTERNAL WIRE BRAIDING, TYPE PARFLEX and SUPERFLEX

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 LR22510293TA**.

APPROVAL DOCUMENTATION

Application Checklist	25/10/2022
Request for Marine Service TAC – 2022/139-SQ290329	26/10/2022
Production Quality Assessment Form PRJ11100363456-1	08/04/2022
ISO 9001:2015 n. SGQ 1568	Expiring date 05/10/2024
B120 Parflex SP.T.4700-4750-4755-rev. 00	
B100 Parflex SP.T.5700-5750-rev. 01	
B110 Parflex_lperflex SP.T.5600-5650-rev. 00	
SP5750S_DN8_ing_rev.01	18/05/2016

APPROVAL DOCUMENTATION

Burst test report number 025/18 on DN40-5650	22/06/2018
Burst test report number 039/19 on DN80-5650	18/01/2019
Burst test report number 040/19 on DN100-5650	18/02/2019
Burst test report number 041/19 on DN50-5650	06/02/2019
Burst test report number 088/2020 on DN8-5750S	30/01/2020
Burst test report number 089/2020 on DN6-4755	30/01/2020
Burst test report number 080/2020 on DN6-4750	30/01/2020

Previous documentation as listed in Design Appraisal Document 02/00098, 02/00098(E1), 02/00098(E2), 02/00098(E3), 02-00098(E3)-03 DA

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.

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