Certificate No: LR25190805TA
Issue Date: 20/10/2025
Expiry Date: 19/10/2030

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	**Sang Bong Corporation**
Address	90, Seonghae 2-gil, Anjung-eup, Pyungtaek, Gyeonggi, 17815, South Korea
Type	Flexible Hoses
Description	Flexible hose of non-metallic material with permanently fitted couplings
Trade Name	Dolphinflex Vapor Polyurethane Hose
Application	Temporary connection for Inert gas system
Specified Standard	Lloyd's Register Rules and Regulations for Classification of Ships, Part 5, Chapter 12, July 2025
Ratings	Nominal diameter (inch) : 8", 10", 12" Max. working pressure (bar) : 0.4 bar Working Temperature range (°C) : -40°C ~ +90°C
Additional Tests	The following tests have been carried out : 1) Electrical resistance test 2) Cold flexiblilty test 3) Hydrostatic test

Downloaded Copy

Da-Young Kang

Engineering Piping - Senior Specialist to
Lloyd's Register Asia
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Type Approval Certificate

4) Burst test

Other Conditions

1. Flexible hose assemblies are not to be installed where they may be subjected to torsion deformation (twisting) under normal operating conditions.
2. Flexible hose are to be installed in clearly visible and readily accessible locations.
3. Flexible hoses are not to be used to compensate for misalignment between sections of piping.
4. The installations and maintenance are to be carried out in accordance with the manufacture's instructions.
5. For ships that are classed or intended to be classed by Lloyd's Register, the locations must be clearly indicated on the plans, which are to be submitted for approval.

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 Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: LR2021630TA

The Design Appraisal Document BTS/ENG/M252890 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.