Certificate No: LR26385931TA
Issue Date: 12/08/2026
Expiry Date: 11/08/2031

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	**SUNGMOON CO., LTD.**
Address	122, Techno valley 1-ro, Jillye-myeon, Gimhae-si, Gyeongsangsam-do, 50875, South Korea
Type	Metal Expansion Joint
Description	Double wall expansion bellow for fuel gas piping system Bellow/Flanges/Plate : SUS316L
Trade Name	DSMBS-5
Application	Double wall expansion bellow for fuel gas piping system
Specified Standard	Part 5, Chapter 2 & 12 of Lloyd's Register's Rules and Regulations for the Classification of Ships (July 2026) Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk (July 2026) Rules and Regulations for the Classification of Ships using Gases or other low flash point fuels (July 2026) EJMA standards 11th Edition
Ratings	DSMBS-5 (Inner / Outer) Size : DN125 / DN200 Design Temperature (°C) : +0~60 / +0~60 Media : Natural gas , Nitrogen / Air

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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

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Design pressure (bar) : 10 / 10

Additional Tests Burst test, Pressure test, Cyclic test and NDE

Other Conditions

1. The metallic expansion joints are to be made, installed and tested as required by the Rules and found to function under working conditions all to the attending surveyor's satisfaction.
2. It is noted that this metallic expansion joints intended fuel gas is to be categorized as Class II piping system.
3. The joints are to be made, installed and tested to appropriate pipe class requirements in accordance with Part 5, Chapter 9.4 of LR Rules and Regulations for the Classification of Ships in so far as applicable.
4. The joints are to be installed in accordance with the manufacture's instructions.
5. The joints are to be constructed, tested and installed on board to the satisfaction of the attending surveyors.
6. Welding and non-destructive testing are to be to the attending surveyor's satisfaction.

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.

The Design Appraisal Document GTS/ENG/M262651 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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