Certificate No: LR26408351TA
Issue Date: 25/08/2026
Expiry Date: 24/08/2031

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	**Shanghai Marine Diesel Engine Research Institute**
Address	No. 1 Lane 357 Gongqing Road, Shanghai, China
Place of Production	Shanghai Marine Diesel Engine Research Institute No. 1 Lane 357 Gongqing Road, Shanghai, China
Type	Gas Valve Unit
Description	Gas Valve Unit (GVU)
Trade Name	SMDERI GVU50/GVU65/GVU80/GVU100/GVU125
Application	Marine applications for LNG fuel supply system
Specified Standard	LR Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk, 2025 LR Rules and Regulations for the Classification of Ships, July 2025 LR Rules and Regulations for the Classification of Ships using Gases or other low-flashpoint Fuels, July 2025 International Code for the Construction and Equipment of Ships Carrying Liquefied Gas in Bulk, 2014 (IGC Code) International Code of Safety for Ships Using Gases or Other Low-Flashpoint Fuels (IGF Code)

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Andy Zhang
Lead Specialist to Lloyd's Register
Classification Society (China) Co., Ltd.
A member of the Lloyd's Register group

Room 02-05, 48F, Raffles City Shanghai Office Tower, No.268 Xi Zang Middle Road, Huangpu District, Shanghai, 200001, China

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Ratings

Nominal Diameter (mm):	DN50/DN65/DN80/DN100/DN125
Gas Inlet Pressure (MPa):	1.6
Gas Temperature (˚C):	+60

Other Conditions

1. GVU are to be selected and installed in accordance with the manufacture's instructions and recommendations and to the attending Surveyor's satisfaction.
2. Materials used for Class II piping systems are to be produced at a works approved by LR and to be provided with LR material certificate according to LR Ship Rules, Pt 5, Ch 12, Paragraph9.4.2.
3. The Valves are to be provided with LR product certificate.
4. The materials are to be suitable for the intended service conditions.
5. The system design shall be subject to approval prior to installation on board specific LR Classed ships.
6. Sealing Test of the GVU is to be carried out according to Document GDS-0075 "Sealing Instructions of Gas Valves Unit" Revision Date: 2021-04-12.

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 Classification Society (China) Co., Ltd. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR26408351TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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