Certificate No: LR26331636TA
Issue Date: 22/02/2026
Expiry Date: 21/02/2031

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	**BMT Co., Ltd.**
Address	17, Sinsojaesandan 2-ro, Jang-an-eup, Busan, 46031, South Korea
Type	Cryogenic Valves
Description	Cryogenic Swing Check Valve
Trade Name	FCSC Series
Application	Marine use for cargo piping systems in ships for carriage of liquefied gases in bulk Marine use for fuel piping systems in ships using Gases as Fuel
Specified Standard	Lloyd's Register Rules and Regulations for Classification of Ships (July 2025) Lloyd's Register's Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gasses of Ships (July 2025) Lloyd's Register's Rules and Regulations for Classification of Ships using Gases or other Low-flashpoint Fuels (July 2025)
Ratings	Nominal Sizes (inch) : 2, 2-1/2, 3, 8, 14 Nominal Pressure Ratings : ANSI Class 150 Minimum Service Temperature (°C): -196

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Yong-Dae Kong

Engineering Piping/Decarbon - Lead 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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Additional Tests

The following tests were carried out in accordance with BS 6364:1984, KS B 2101:2003 as applicable with satisfactory results:-

1) Burst test
2) Shell test
3) Cryogenic service test
4) Seat leakage test
5) Flow / Capacity test

Other Conditions

1) Where the valves are intended to be installed on a ship classed with LR, the valves are to be made, installed and tested in accordance with the Class I piping systems requirements of Part 5, Chapter 12 of the Rules Regulations for the Classification of ships.
2) The requirements for design temperatures below -165 °C shall be specially agreed with the Flag Administration in accordance with Chapter 6, Table 6.4 of the IGC Code & Part A-1, Table 7.4 of the IGF Code.

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: LR21117700TA-01

The Design Appraisal Document LR26331636TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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