Certificate No: LR25239245TA
Issue Date: 02/09/2025
Expiry Date: 01/09/2030

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 **HY-LOK Corporation.**

Address 97 Noksansandan 27-ro Gangseo-gu, Busan, 46751, South Korea

Type Cryogenic Valves

Description
VCRYOTA
VCRYOTB
VCRYOTC
VCRYOTD

Trade Name Top Entry Ball Valve / Trunnion Ball

Application Marine use for cargo piping systems in ships for carriage of liquefied gases in bulk

Specified Standard
Lloyd's Register Rules and Regulations for Classification of Ships (July 2025), Part 5, Chapter 12
Chapter 5 of Lloyd's Register's Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk (July 2025)
Part B-1, Section 16.7 of Rules and Regulations for the Classification of Ships using Gases or other Low-flashpoint Fuels (July 2025)

Ratings

Nominal Size (inch)	Nominal Pressure Ratings
1/2	Class 300
1	Class 600
2	Class 900

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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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3,12 Class 150

Minimum Service Temperature (°C) : -165

Additional Tests

The following tests are carried out on representative samples in accordance with BS 6364:1984, ANSI/ISA-75.02.01:2008, and KS B 2101:2003 with satisfactory results:-

1) Shell test
2) Cryogenic service test
3) Seat leakage test
4) 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 & II piping systems requirements of Part 5, Chapter 12 of the Rules and Regulations for the Classification of ships.
2) Seat tightness testing for bi-directional flow is to be additionally performed where it is required by 5.13.1.1.1 of the IGC code.
3) 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 and Part A-1, Table 7.4 of 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: LR2016009TA

The Design Appraisal Document BTS/ENG/M252589 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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