

## **Type Approval Certificate**

This is to certify that the undernoted product has been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.

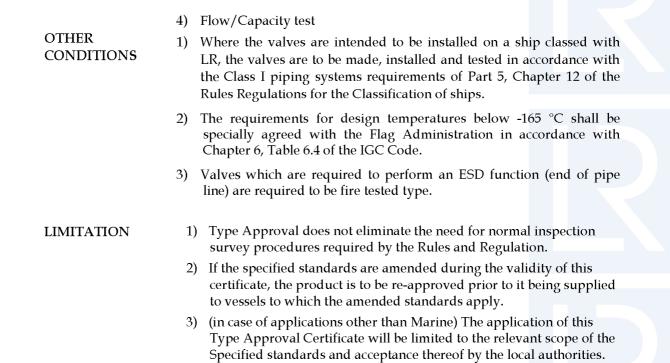
This certificate is issued to:

PRODUCER	BMT Co., Ltd		
PLACE OF PRODUCTION	35, Sanmakgongdannam 11-gil, Yangsan-si, Gyeongsangnam-do, Korea		
DESCRIPTION	Cryogenic Ball Valve with Extended Bonnet		
TYPE	FCB Series		
APPLICATION	Marine use for cargo tanks and cargo piping systems in ships for carriage of liquefied gasses in bulk		
STANDARD	Lloyd's Register Rules and Regulations for Classification of Ships, Part 5, Chapter 12, Section 5, July 2017 Chapter 5 of Lloyd's Register's Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gasses of Ships (July 2017)		
RATING	Nominal Size (inch) : $\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{2}$ ", 2" Nominal Pressure ratings (psi): Class 150 Minimum Service Temperature (°C): -196		
PERFORMANCE TESTS	<ul> <li>The following tests were carried out in accordance with BS 6364:1984, KS</li> <li>B 2101:2003 as applicable with satisfactory results:-</li> <li>1) Burst test</li> <li>2) Cryogenic service test (including bi-directional flow)</li> <li>3) Seat leakage test (including bi-directional flow)</li> </ul>		
Certificate No. Issue Date Expiry Date Sheet	18/40011 08 March 2018 07 March 2023 1 of 2	Digitally signed by YDKorg. Date: 2018.03.08 10:52:00 +09'00' Busan Technical Support Office Lloyd's Register Asia	Register Y. D. Kong
14031.1.2016.06 Busan Technical Support Office			
Lloyd's Register Acia			
Lloyd's Register Asia, 119, Daegyo-ro, Jung-gu, B	usan		

Lle119, Daegyo-ro, Jung-gu, Busan

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.





"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."

18/40011 and its supplementary Type Approval Terms and Conditions form

part of this Certificate.

Certificate No. Issue Date Expiry Date Sheet 18/40011 08 March 2018 07 March 2023 2 of 2





Busan Technical Support Office Lloyd's Register Asia

Y. D. Kong Busan Technical Support Office Lloyd's Register Marine & Offshore

Lloyd's Register Asia, 119, Daegyo-ro, Jung-gu, Busan

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.