Certificate No: LR25168528TA
Issue Date: 30/07/2025
Expiry Date: 29/07/2030

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	**MNS Cryogenic Equipment Technology (Dalian) Co., Ltd.**
Address	1F, No. 30-2 Huaihe West Road, Dalian Development Area, Dalian, Liaoning, 116600, China
Type	Valves - General
Description	Normal Temperature Globe Valves (MGN) and Check Valves (MCN)
Trade Name	MGN Type and MCN Type
Application	Marine and offshore subject to the valves complying with LR Rules and Regulations for the particular services.
Specified Standard	LR Rules and Regulations for the Classification of Ships, July 2024 LR Test Specification 2 ASME B 16.34
Ratings	Globe Valve (MGN Type): Nominal Diameter (mm): DN 10 ~ DN 100 Desing Pressure (Bar): 50 Desing Temperature (℃): -50 ~ 120 Material: Body/ Bonnet: ASTM A351-CF3M Disc: ASTM A351-CF3M/

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Torsten Schroeder
Engineering - Piping/ Decarbonisation - Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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A479-316L
Disc Seals: PTFE

Check Valve (MCN Type):
Nominal Diameter (mm):
DN 10 ~ DN 100
Desing Pressure (Bar): 50
Desing Temperature (℃): -50 ~ 120
Material:
Body/ Bonnet:
ASTM A351-CF3M
Stem: ASTM A479-316L
Disc: ASTM A351-CF3M/
A479-316L
Disc Seals: PTFE

Other Conditions

1. Materials of construction of Class I and Class II piping systems are to be produced at a works approved by LR and are to be tested in accordance with the Rules for Materials.
2. Valves are to be used within their specified pressure and rating for all normal operating conditions and are to be suitable for the intended purpose.
3. The valves are not to be used in spaces where leakage or failure caused by fire could result in fire spread, flooding or the loss of an essential service.
4. Each valve is to be tested at the manufacturer's production facility to a hydrostatic pressure not less than 1.5 times the rated pressure of the valve.
5. Valves form this certificate belong to standard class type of standard ASTM B16.34.

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Type Approval Certificate

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR25168528TA_DAD and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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