Certificate No: LR2001990TA
Issue Date: 27/02/2020
Expiry Date: 26/02/2025

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	**ACD LLC**
Address	A Cryogenic Industries Company, 2321 S. Pullman Street, Santa Ana, CA, 92705, United States
Place of Production	ACD LLC A Cryogenic Industries Company, 2321 S. Pullman Street, Santa Ana, CA, 92705, United States
Type	Submerged Pump
Description	Centrifugal Submerged Cryogenic Pump
Trade Name	TC (MSP) 34.2
Application	LNG, liquid nitrogen, ethylene, ethane transfer operations for marine and off shore installations
Specified Standard	Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk, July 2019 Rules and Regulations for the Classification of Ships using Gases or other Low-flashpoint Fuels, July 2019
Ratings	See enclosed Appendix

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Abhijit Aul

Lead Regulatory Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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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 No. LR2001990TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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