

# 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.

<b>Manufacturer</b>	<b>ACD LLC</b>
<b>Address</b>	2321 S. Pullman Street Santa Ana, CA 92705-5512 USA.
<b>Place of Production</b>	2321 S. Pullman Street Santa Ana, CA 92705-5512 USA.
<b>Type</b>	Submerged Pump
<b>Description</b>	Centrifugal Submerged Cryogenic Pump
<b>Trade Name</b>	TC (MSP) 34.2
<b>Application</b>	LNG, liquid nitrogen, ethylene, ethane transfer operations for marine and off shore installations
<b>Specified Standard</b>	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
<b>Ratings</b>	See enclosed Appendix

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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**Abhijit Aul**

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