Certificate No: LR21299645TA
Issue Date: 13/07/2021
Expiry Date: 12/07/2026

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	**Artget Fluidtech (Guangzhou) Co., Ltd.**
Address	Shengbiao Industrial Park,, No. 136 Shiqing Road, Shilou Town,, Panyu District,, Guanzhou, Guangdong, 511447, China
Place of Production	Artget Fluidtech (Guangzhou) Co., Ltd. 12 Xinglong 10 Road, Guanglong Industrial Zone, Chencun Town, Shunde District, Foshan, Guangdong, China
Type	Flexible Hoses
Description	Type A-welding end fittings, type B-bite end fittings, type C-flared end fittings, type F-flange end fittings and type H- 24o cone sealed end fittings Flexible hose of non-metallic material with permanently fitted couplings: - Wire-braid-reinforced rubber hose (1~3 layers) - Wire-spiral-reinforced rubber hose (1~4 and 6 layers)
Trade Name	ARTGET
Application	Marine and offshore use as short joining lengths of flexible hose assemblies for lub. oil, fuel oil, fresh water, sea water and hydraulic oil system use
Specified Standard	Rules and Regulations for the Classification of Ships, July 2020 Fire Resistant Testing according to GB/T 21477-2008 /ISO 15540:2001 Ships

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Xiaodong Zhang

Lead Specialist and Section Leader for Engineering Section to Lloyd's Register Classification Society (China) Co Ltd

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Type Approval Certificate

and marine technology- Fire resistance of hose assemblies–Test methods

Ratings

Hose's nominal diameter:	ø 5 mm to ø 100 mm
Max. working pressure:	42 MPa
Temperature range:	-40 ^{O}C to 100 ^{O}C for types 1~4
	-10 ^{O}Cto 121 ^{O}C for types 6

Other Conditions

For application on a LR classed vessel, the following conditions are to be complied with:-

1. Must have their locations shown on plans, which are to be submitted for approval
2. Are to be suitable for the intended location and application, taking into consideration ambient conditions, compatibility with fluids under working pressure and temperature conditions consistent with the manufacturer's instructions and any other applicable requirements in the Rules
3. Are to be installed in accordance with the manufacturer's instructions and use limitations, and to the satisfaction of the attending Surveyor
4. Are not to be used in high pressure fuel oil injection systems
5. Gates LR type approved flame-resistant flexible hoses or equivalents are to be used for each type of flexible hose assemblies

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 Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR21299645TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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