Certificate No: LR2689999TA
Issue Date: 29/05/2026
Expiry Date: 28/05/2031

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	**Changzhou Huifeng Marine Accessories Manufacturing Co., Ltd.**
Address	No.261 Fumin Road, Lucheng Street, Economic Development Zone, Changzhou City, Jiangsu Province, 213000, China
Place of Production	Changzhou Huifeng Marine Accessories Manufacturing Co., Ltd. No.261 Fumin Road, Lucheng Street, Economic Development Zone, Changzhou City, Jiangsu Province, 213000, China
Type	Air Pipe Head
Description	Air Pipe Closing Device
Trade Name	533HF-L
Application	Automatic closing devices for air and overflow pipes which terminate above open deck or in an enclosed space above the free board deck for use in marine and offshore industries.
Specified Standard	LR Rules and Regulations for the Classification of Ships, July 2025 Lloyd's Register Type Approval System Test Specification Number 2, October 2024, Chapter 9, Appendix 8- Air pipe closing devices IACS UR P3 "Air Pipe Closing Devices" (Rev.5 Apr 2021)

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Qing Dong

Engineering - Machinery - Senior Specialist to Lloyd's Register Classification Society (China) Co., Ltd.

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Ratings

Nominal Pipe Diameters (mm): DN50/65/80/100/125/150/200
DN250/300/350//400/450/500

Materials:

Body:	ZL104/101 (Cast Aluminium Alloy) QT400-15 (Nodular Cast Iron)
Cover:	ZL104/101 (Cast Aluminium Alloy) QT400-15 (Nodular Cast Iron)
Protection Screen:	316L (Stainless Steel)
Float Ball:	316L(Stainless Steel)
Seal:	NBR

80% Vacuum Flow Rate Velocity (m/s):

DN50:	27.96
DN65:	19.65
DN80:	26.64
DN100:	20.21
DN125:	20.58
DN150:	17.04
DN200:	13.97
DN250:	14.8
DN300:	14.85
DN350:	23.42
DN400:	20.6
DN450:	17.01
DN500:	14.28

Other Conditions

1. The air pipe head is not to be used for controlled cargo tank venting systems (flash pint<60˚C).
2. Its position is to be indicated on the air pipe arrangement plan which is to be submitted for approval.
3. When used for fuel tanks and water ballast tanks, the NBR seal is to be compatible with the media.
4. Flow characteristic curves of the manufacturer are to be taken into

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consideration and to be available to users.

5. Verification of marking for identification and proper installation on board are to the satisfaction of the attending Surveyor.

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.

Previous Version: LR2107707TA

The Design Appraisal Document LR2689999TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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