Certificate No: LR22128495TA
Issue Date: 30/03/2022
Expiry Date: 28/12/2026

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	**Changzhou Huifeng Marine Accessory Produce Co.,Ltd**
Address	No.261 Fumin Road, Lucheng Street, Economic Development Zone, Changzhou, 213000, China
Place of Production	Changzhou Huifeng Marine Accessory Produce Co.,Ltd No.261 Fumin Road, Lucheng Street, Economic Development Zone, Changzhou, 213000, China
Type	Air Pipe Head
Description	Automatic closing device with stainless steel float for air and overflow pipes
Trade Name	533HF
Application	Automatic closing appliance for air and overflow pipes which terminate above open deck or in an enclosed space above the freeboard deck for use in marine and offshore industries.
Specified Standard	LR Rules and Regulations for the Classification of Ships, July 2021 Lloyd's Register Type Approval System Test Specification Number 2, December 2020, Chapter 9, Appendix 8 - Air pipe closing devices IACS UR P3 "Air Pipe Closing Devices" (Rev. 4 Jan2016)

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Qing Dong

Specialist to Lloyd's Register Classification Society (China) Co Ltd
A member of the Lloyd's Register group

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Ratings

Nominal Diameters (mm):	DN50~DN600
Materials:	
Body (DN50~DN300):	Cast steel ZG230-450 Nodular cast iron QT400-15
Body (DN350~DN450):	Mild steel Q235-B Stainless steel SUS304
Body (DN500~DN600):	Mild steel Q235-B
Top Cover:	Mild steel Q235-B
Body Cover:	Mild steel Q235-B
Protection Screen:	Stainless steel SUS304/SUS316L
Float Ball:	Stainless steel SUS304/SUS316L
Seal:	NBR/Silicon rubber

Size	80% Vacuum flow rate velocity (m/s)
DN50	29.85
DN65	21.2
DN80	12.64
DN100	11.55
DN125	12.20
DN150	12.22
DN200	10.89
DN250	13.95
DN300	13.94
DN350	15.34
DN400	13.00
DN450	10.50
DN500	9.58
DN600	7.74

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Other Conditions

1. The air pipe vent 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 seal is to be compatible with the media.
4. Flow characteristic curves of the manufacturer are to be taken into 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: 16/80112

The Design Appraisal Document LR22128495TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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