Certificate No: LR2107707TA
Issue Date: 25/12/2020
Expiry Date: 24/12/2025

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	**Changzhou Huifeng Marine Accessory Produce Co., Ltd**
Address	No. 280 Fumin Road, Lucheng town, Changzhou City, Jiangsu Province, 213025, China
Place of Production	Changzhou Huifeng Marine Accessory Produce Co., Ltd No. 280 Fumin Road, Lucheng town, Changzhou City, Jiangsu Province, 213025, 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 2018 Lloyd's Register Type Approval System Test Specification Number 2, Chapter 9, Appendix 8- Air pipe closing devices IACS UR P3 "Air Pipe Closing Devices" (Rev. 4 Jan 2016)

Downloaded Copy

Qing Dong

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

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Certificate No: LR2107707TA
Issue Date: 25/12/2020
Expiry Date: 24/12/2025

Type Approval Certificate

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

Additional Tests

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.

Downloaded Copy

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Type Approval Certificate

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 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.

The Design Appraisal Document LR2107707TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.