Certificate No: LR2054576TA
Issue Date: 18/11/2020
Expiry Date: 12/05/2024

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	**Jiangsu Xinzhou Ship Fitting Co., Ltd**
Address	No. 39 Xinjian North Road, North Suburb Zone, Economic Development Zone, Jingjiang, 214500, China
Place of Production	Jiangsu Xinzhou Ship Fitting Co., Ltd No. 39 Xinjian North Road, North Suburb Zone, Economic Development Zone, Jingjiang, 214500, China
Type	Air Pipe Head
Description	Air Pipe Closing Devices
Trade Name	FSH-01/XZ500
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 2019 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)

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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

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Ratings

FSH-01
Nominal Pipe Diameters (mm): DN50/65/80/150/300/400/450/500

Materials:
Body: Q235B/SS304/SS316L
Top Cover: Q235B
Side Cover: Q235B/SS304/SS316L
Protection Screen: SS316L
Float Ball: SS304/SS316L
Seal: NBR

80% Vacuum Flow Rate Velocity (m/s):
DN50: 32.97
DN65: 5.02
DN80: 24.01
DN150: 20.62
DN300: 24.49
DN400: 9.51
DN450: 16.33
DN500: 9.25

XZ500
Nominal Pipe Diameters (mm): DN500

Materials:
Body: QT400-15
Top Cover: Q235B
Side Cover: Q235B/SS304/SS316L
Protection Screen: SS316L
Float Ball: SS304/SS316L
Seal: NBR

80% Vacuum Flow Rate Velocity (m/s):
DN500: 12.85

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Type Approval Certificate

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 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 LR2054576TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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