Certificate No: LR2162366TA
Issue Date: 28/01/2021
Expiry Date: 27/01/2026

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	**Jiangsu Jixin Marine Equipment Co.,Ltd**
Address	Block Z1-8B, Noth Side of Binjiang, First Road, Jingjiang Park, Jiangyin Economic Development Zone, Jingjiang, 214500, China
Place of Production	Jiangsu Jixin Marine Equipment Co.,Ltd Block Z1-8B, Noth Side of Binjiang, First Road, Jingjiang Park, Jiangyin Economic Development Zone, Jingjiang, 214500, China
Type	Air Pipe Head
Description	Air Pipe Closing Device AS/BS
Trade Name	JIXIN
Application	Automatic closing appliances for air and overflow pipes which terminate above the open deck for use in marine and offshore industries.
Specified Standard	International Convention on Load Lines, 1966/1988 – International Convention on Load Lines, 1966, as amended in 2003, Regulation 20 Lloyd's Register Rules and Regulations for the Classification of Ships (July 2016) IACS UR P3 "Air Pipe Closing Devices" (Rev. 4 January 2016)
Ratings	Material: Body: ZAlMg5Si1 Float: 1Cr18Ni9Ti/SUS316L

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Xiaodong Zhang

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

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

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Cover: ZAlMg5Si1
Seat: NBR
Nominal pipe diameter: DN300
80% of Vacuum flow rate velocity (m/s) at the point of blocking: 18.87m/s
Nominal pipe diameter: DN350
80% of Vacuum flow rate velocity (m/s) at the point of blocking: 18.48m/s
Nominal pipe diameter: DN500
80% of Vacuum flow rate velocity (m/s) at the point of blocking: 13.17m/s
Nominal pipe diameter: DN800
80% of Vacuum flow rate velocity (m/s) at the point of blocking: 10.02m/s
Nominal pipe diameter: DN1000
80% of Vacuum flow rate velocity (m/s) at the point of blocking: 6.74m/s

Other Conditions

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

1) Its position is to be indicated on the air pipe arrangement plan which is to be submitted for approval.
2) The air vent heads which castings are made of aluminium alloy casting are not to be used for tanks containing combustible liquids, chemicals or tanks and cofferdams in hazardous zones.
3) The air vent heads and its components of aluminium alloy material are not to be electrically connected to steel work or other dissimilar metal for the purpose of preventing danger of galvanic corrosion. Manufacturer's installation instruction should be followed and to be installed to the satisfaction of the attending surveyor.
4) The installation and maintenance are to be in accordance with the manufacturer's instructions.
5) Flow characteristic curves of the manufacturer are to be taken into consideration and to be available to users.
6) Verification of marking for identification and proper installation on board are to the satisfaction of the Lloyds Register's Surveyor.
7) The air pipe automatic closing device is not to be used for continuing overflow.
8) When used for fuel tanks and water ballast tanks, the NBR seal is to be

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compatible with the media.

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 LR2162366TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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