Certificate No: LR23410453TA
Issue Date: 20/12/2023
Expiry Date: 19/12/2028

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	**Taixing Haixing Marine Machinery Co.,Ltd**
Address	Pioneering Park for Economical and Trade, Industry Zone, Taixing Town, Taixing City, Jiangsu Province, 225400, China
Place of Production	Taixing Haixing Marine Machinery Co.,Ltd Pioneering Park for Economical and Trade, Industry Zone, Taixing Town, Taixing City, Jiangsu Province, 225400, China
Type	Air Pipe Head
Description	Galvanised Steel Air Pipe Head
Trade Name	HJQE(FS) series
Application	Marine and Offshore applications
Specified Standard	LR Rules and Regulations for the Classification of Ships, July 2023 Part 3, Chapter 12, Section 3 and Part 5, Chapter 13, Section 12; IACS UR P3 “Air pipe closing devices”(Rev.5 Jan.2021)
Ratings	Sizes: DN50 to DN700 Temperature: -25°C to 85°C Materials: Welded body: Q235B (GB3274-2007)

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Hao Wang

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

12th Floor, Chong Hing Finance Centre, No. 288
Nanjing West Road, Shanghai, 200003, China

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Side Cover:	Q235B (GB3274-2007)
Float ball:	Metal: SUS304
	Non-metal: Poly ethylene (PE)
Seat seal:	Neoprene

Size	80% Vacuum flow rate velocity (m/s)
DN50	5.77
DN65	4.15
DN80	4.95
DN100	6.23
DN125	14.86
DN150	13.78
DN200	9.20
DN250	4.60
DN300	4.57
DN350	4.74
DN400	5.54
DN450	11.04
DN500	13.40
DN550	14.57
DN600	13.47
DN650	13.48
DN700	11.69

Other Conditions

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

1.The product type/size selection and installation are to be in accordance with the manufacturer's instructions, and to the attending Surveyor's satisfaction.

2. Closures and seats made of non-metallic materials are to be compatible the media intended to be carried in the tank and to sea water.

3. The air pipe automatic closing device is not to be used for continuing overflow.

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

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