Certificate No: LR21318608TA
Issue Date: 17/08/2021
Expiry Date: 19/12/2022

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 Kuize Mechanical Industry Co.Ltd**
Address	Jiangsu, West, High & New Tech. Area, Hai An, Hai An, 226600, China
Place of Production	Jiangsu Kuize Mechanical Industry Co.Ltd Jiangsu, West, High & New Tech. Area, Hai An, Hai An, 226600, China
Type	Expansion And Slip-On Joints
Description	Slip Type Expansion Joints SHD Series (Dress telescopic joints) STL Series (Slip telescopic joints)
Trade Name	Jiangsu Kuize
Application	Marine piping systems: - For services and locations listed in Part 5, Chapter12, Table 12.2.7 where approved fire-resistant types are required but excluding bilge services inside machinery spaces of Category A, flammable oil services inside machinery spaces of Category A and ballast systems inside machinery spaces of Category A.
Specified Standard	Lloyd's Register (LR) Rules and Regulations for the Classification of Ships (July 2020), Part 5, Chapter 12

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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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IACS UR P2 “Rules for Piping Design, Construction and Testing” (Oct 2018)
CB*694-77 “Expansion Joints”
GB/T 12465-2007 “Piping Compensatory Couplings”

Ratings

SHD series (Dress telescopic joints)

Nominal pipe diameters:	65 to 900 mm
Design pressure:	1.0 MPa
Maximum temperature:	80°C
Seal materials:	Flexible graphite

STL series (Slip telescopic joints)

Nominal pipe diameters:	65 to 900 mm
Design pressure:	0.4to 1.6 MPa
Maximum temperature:	80°C for NBR 110°C for EPDM 200°C for FPM/FKM

Additional Tests

Representative samples of joints tested in accordance with the requirements as specified in IACS UR P2.11 (Rev. 2 Corr.1,Apr 2007). The following tests have been carried out: -

1) Tightness test
2) Burst pressure test
3) Fire endurance test
4) Vacuum test

Other Conditions

Where the joints are intended to be installed on a ship classed with LR, the following conditions of acceptance will be applicable: -

1) The positions of joints are to be indicated on individual diagrammatic plans of piping systems which are submitted for approval, for consideration.
2) The joints are to be installed and tested in accordance with Part 5, Chapter 13,Section 2 of LR Rules and Regulations for the Classification of Ships in so far as applicable.
3) The joints are to be made, installed and tested to appropriate pipe class

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requirements in accordance with Part 5, Chapter 12 of the LR Rules and Regulations for the Classification of Ships in so far as applicable.
4) Where applicable, bonding for the control of static electricity is to be provided to comply with Part 6, Chapter 2 of LR Rules and Regulations for the Classification of Ships.
5) In all case the materials are to be suitable for their intended service conditions.

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 LR21318608TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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