Certificate No: LR2543365TA
Issue Date: 10/06/2025
Expiry Date: 09/06/2030

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	**Luoyang Ship Material Research Institute**
Address	No.169 South Binhe Road, Luoyang, Henan, 471023, China
Place of Production	WENZHOU DUNSHAN EPT CO.,LTD 500, Lingde Road, KunPeng Street, Marine economic development, demonstration zone, Wenzhou, China
Type	Mechanical Pipe Joints
Description	LSMRI Stainless Steel pipes and Press fitting
Trade Name	Mechanical pipe Joints- Press Fittings
Application	Marine/ Offshore Application For Class III piping systems: Distilled water, technical water distribution, technical water collecting, Swimming pools water, Cold potable water, Fresh water for cooling services, Compressed air (only outside machinery spaces category A and for service air (non-essential)), Exhaust gas ducts, Chilled/hot water condensate
Specified Standard	LR Rules and Regulations for the Classification of Ships, July 2024 Lloyd's Register Type Approval System Test Specification Number 2, Chapter 5, Appendix 4 - Mechanical Pipe Joints – Fixed Connections. IACS P 2.11 ISO 19921: 2005(E)

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Torsten Schroeder
Engineering - Piping/ Decarbonisation - Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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ISO 19922: 2005(E)
LSMRI Standard

Ratings

LSMRI stainless steel Press fitting

Nominal Diameter:	DN12~DN100；15mm~108mm
Pipe Thickness:	1.0~2.0 mm
Maximum Allowable working Pressure:	1.6Mpa
Design Temperature:	EPDM, FKM: -20~120℃; Butyl rubber: -20~100℃
Maximum design Vacuum:	-80kPa
Material: (seal O-ring)	316L(body), EPDM, FKM, Butyl rubber
Material Standard:	ASTM A312

Other Conditions

1. Mechanical pipe joints are to be selected and installed in accordance with the manufacturer's instructions.
2. In all cases, pressure and temperature ratings of the fittings are to be suitable for the intended service conditions.
3. Mechanical pipe joints are suitable for the applications specified in WRAS certificate 250304010, as issued by the WRAS Authority.
4. The fittings are suitable for applications where the 30-minute wet fire test, as specified in LR Class Rules Part 5, Chapter 12, Section 2, is applicable.

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 EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR2543365TA_DAD and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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