Certificate No: LR25168291TA
Issue Date: 29/04/2025
Expiry Date: 28/04/2030

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	**TK-FUJIKIN CORPORATION**
Address	32, Hwajeonsandan 3-ro, Gangseo-gu, Gangseo-gu, Busan, 46739, South Korea
Place of Production	TK-FUJIKIN CORPORATION 32, Hwajeonsandan 3-ro, Gangseo-gu, Gangseo-gu, Busan, 46739, South Korea
Type	Compression Fittings
Description	Bite type compression tube fittings for stainless steel pipe (SUS316/L), with optional accessories having non-metallic sealing (NBR/FKM/PTFE)
Trade Name	Tube Fittings for JIS & KS
Application	High pressure tube connections for use in marine, offshore and industrial piping systems with lubricating oil, hydraulic oil, air, fresh water, sea water, steam and fuel oil.
Specified Standard	Lloyd's Register Rules and Regulations for Classification of Ships (July 2025) Lloyd's Register Type approval system test specification Number 2, Appendix 4
Ratings	Maximum allowable working pressure (bar) 6~ 15 mm : 500 bar 16~22 mm : 400 bar 25~28 mm : 250 bar

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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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30~38 mm : 250 bar
40~50 mm : 210 bar

Pressure-temperature ratings: see the producer's catalogue

Additional Tests

Representative samples of joints have been tested in accordance with the requirements as specified in accordance with LR's Type Approval Test Specification Number 2, except Fire endurance test.
The following tests have been carried out:-
Tightness, Repeated assembly, burst pressure, vacuum,pull-out, vibration & pressure pulsation test

Other Conditions

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

- The fittings are to be installed in accordance with the manufacture's instruction.
- For use of Accessories with elastomeric seals the systems fire endurance conditions are to be observed.
- Where the application of mechanical joints results in a reduction in pipe wall thickness due to the use of bite type rings or other structural element, this is to be taken into account in determining the minimum wall thickness of the pipe to withstand the design pressure.
- If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

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.

Previous Version: LR2003562TA

The Design Appraisal Document LR25168291TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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