

LLOYD'S REGISTER TYPE APPROVAL

Issue by: Global Technical Support Office

Issued to: SHANGHAI HUAJIAN PIPE FITTINGS CO., LTD.

For: COPPER PIPES FITTINGS TYPE ELBOW, TEE, REDUCER

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 04 (September 2020) and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

1. Application Checklist Form - dated 20, November 2024
2. Request for Marine Services – dated 09, December 2024
3. Declaration of Unchanging – dated 28, November 2024
4. Documentation listed in LR Type Approval Certificate No. 15/80017, LR2040364TA

TEST REPORTS

1. Production Quality Assessment Form – SHI 2500638, dated 05, March 2025
2. Chemical analysis, Material test and Hardness reports for materials BFe10-1.6-1, BFe30-1-1, CuNi10Fe1.6Mn, CuNi10Fe1Mn witnessed by LR Surveyor.
3. WO1527310063E- Hydrostatic strength test and Burst pressure test reports to test specimens witnessed by LR Surveyor.



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LR031.2022

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Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.