Certificate No: LR25148692TA
Issue Date: 27/05/2025
Expiry Date: 26/05/2030

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 **Witzenmann GmbH**

Address Oestliche Karl-Friedrich-Str. 134, Pforzheim, 75175, Germany

Type Metal Expansion Joint

Description Multiple layer stainless steel chamber axial expansion joint. Outer cover of bellow is depressurized

Trade Name ABN 10.0150.024.0

Application To be used in fuel gas supply lines on dual fuel engines or gas engines where flexibility in axial and lateral direction is required.

Specified Standard Lloyd's Register Rules and Regulations for the Classification of Ships, 2025 and EJMA, 10th Edition

Ratings

Nominal Diameter [mm]	Design Pressure [bar]	Design Temperature [°C]	Life Cycles [-]
DN 150	10	50	2000000

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Torsten Schroeder

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

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

Previous Version: LR2147734TA, (previous 15/20040)

The Design Appraisal Document TSO/25-037244, (previous HTS/ENS 32670-15, Issue No. 1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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