Certificate No: LR23183900TA
Issue Date: 02/05/2023
Expiry Date: 06/03/2028

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	**HKS GmbH**
Address	Schonenfahrerstr. 1, Rostock, 18057, Germany
Place of Production	HKS - CZ s.r.o. Mlekojedska 1994/7, Litomerice, 412 01, Czech Republic
Type	Metal Expansion Joint
Description	Stainless steel (1.4541/1.4571) multiple layer expansion joints with or without inner sleeve
Trade Name	Axial Expansion Joints: AN, ANX, AF, AFX & Universal Expansion Joints: AM, AP, APX
Application	As exhaust gas compensators in marine and offshore systems classed or intended for classification with Lloyd's Register
Specified Standard	EJMA, 10th Edition

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Olaf Schmidt

Lead Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Ratings

Nominal Diameter [mm]	Design Pressure [bar]	Design Temperature [°C]	Life Cycles [-]
DN 100 – DN 175	2.5	550	1000
DN 200 – DN 2400	1.5	550	1000

For allowable movements see the corresponding Design Appraisal Document

Other Conditions Installation, movements and spring rate to be in accordance with producer's specification and recommendation

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: 03/20027 (E3)

The Design Appraisal Document HMD 10035-03, Issue No. 4 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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