



## 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.

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

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<b>Ratings</b>	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.