Certificate No: LR25108954QAES
Issue Date: 01/09/2024
Expiry Date: 31/08/2027

Quality Assurance Engineering Scheme Certificate

Manufacturer	**Vulkan Kupplungs- und Getriebebau**
Address	B. Hackforth GmbH & Co. KG, Heerstrasse 66, Herne, 44653, Germany
Scheme Type	**Quality Assurance Scheme for Machinery (QAM)**
Approval Number	**QAM 043/A13**
Product Type	Components for Internal Combustion Engines
Product Name	Highly flexible Couplings

This is to certify that the above named manufacturer has been approved by LR EMEA in accordance with the requirements set out in the Quality Assurance Scheme for Machinery (QAM) within the Lloyd's Register Rules and Regulations for the Classification of Ships.

The quality system and procedures at these works covering production methods, inspection and testing, quality control and general standards of workmanship have been examined and are approved for the manufacture of the undernoted product(s) at the stated place(s) of production.

Such items will be eligible for fitting in ships or other installations classed or intended for classification subject to satisfactory installation under the usual conditions of survey and testing.
This approval is conditional upon the product(s) manufactured and certified under this Scheme being in accordance with the relevant requirements of the Rules and Regulations for the Classification of Ships and the organisation and procedures being audited by the Surveyors at agreed intervals.

For details of the scope of approval see subsequent pages of this certificate.

This certificate is issued to the named manufacturer and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate and reserves the right to cancel or withdraw this certificate.

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Thomas Anhofer
Lead Specialist / QAES Scheme Coordinator 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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The Quality Assurance Scheme for Machinery is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations for the Classification of Ships are complied with.

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Scope of products covered by the scheme:

1. Highly flexible Couplings

Coupling Range	**Size**
RATO-DG	A2111G - A39D9G
RATO-DG+	A2K1S - A3EDH
RATO-DS	A211Z - A3916
RATO-DS+	A2K1S - A3DDH
RATO-R	G192Z - G471YR
RATO-R+	G2D1S - G4A2H
RATO-S	G1211 - G731Y
RATO-S+	G4J1S - G2G2X
VULASTIK-L	X1411 - X43DA with rubber elements
VULASTIK-L	1611S - 4311S with silicon elements
VULASTIK-L	1411 - 43D8
VULKANARDAN-E	K1714 - K6012 with rubber elements
VULKANARDAN-E	E2811S - E6011S with silicon elements
VULKANARDAN-G	5411G - 8419G
VULKANARDAN-L	K1714 - K5812
VULKANARDAN-F	5014 - 6212 with rubber elements

Couplings, for which a LR Type Approval is not available, are subject to issue of a Machinery Design Appraisal Document on a case by case basis. Couplings with composite shafts are subject to case by case Design Appraisal.

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