Certificate No: LR25235096TA
Issue Date: 07/10/2025
Expiry Date: 06/10/2030

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	**Vulkan Kupplungs- und Getriebebau**
Address	B. Hackforth GmbH & Co. KG, Heerstrasse 66, Herne, 44653, Germany
Type	Flexible Shaft Couplings
Description	Highly flexible coupling. 4 rubber qualities with linear stiffness characteristic or alternatively silicone are available for the flexible elements, 3 duty class factors.
Trade Name	Vulkardan E
Application	For essential and non-essential services on ships and offshore installations classed or intended for classification with Lloyd's Register. In single engine propulsion systems only couplings with a “get you home” device to be installed.
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ship,2025

Ratings

Flex. Element	Rubber	Silicone
Norn. Torque (kNm):	0.21 -26	1.63-26.0
Max. Perm. Speed (1/ min):	7500-1900	5100-1900

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Flans Kemp
Global Machinery Team Manager 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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Series 4000,4001,4110,4111,4400

Other Conditions

1. The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.
2. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
3. The MGDA No. TSO/24-015398B-M-0, issue No. 0 dated 07.10.2025 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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