Certificate No: LR22510535TA
Issue Date: 01/12/2022
Expiry Date: 10/07/2027

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	Flexible coupling of metal and rubber material, four stiffnesses available
Trade Name	RATO DG / RATO DG+
Application	As flexible elements for alternator / generator-, compressor-, pump–and blower drives on ships and offshore installations classed or intended for Classification with Lloyd´s Register
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships, Edit. 2022

Ratings

RATO DG / RATO DG+

Size:	A2111 to A39D9
Dimension Group :	A2110 to A39D0
Nominal Torque:	8 kNm to 160 kNm
Permissible Speed:	2100 rpm to 1040 rpm

Downloaded Copy

Olaf Schmidt

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

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Certificate No: LR22510535TA
Issue Date: 01/12/2022
Expiry Date: 10/07/2027

Type Approval 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.

Previous Version: 97/20039 (E5)

The Design Appraisal Document HMD 8609-02, Issue No. 5 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.