DNV·GL

Certificate No:
TAM0000054

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Elastic Couplings

with type designation(s)
ARCUSAFLEX
AC 1.5, AC 2.3, AC 2.6 / 2.7, AC 3, AC 4 / 4.1, AC 5 / 5.1, AC 6 / 6.1, AC 6.5, AC 7, AC 7,5, AC 8, AC 8D, AC 9, AC 9D, AC 10.2, AC 10.2D, AC 11, AC 11D, AC 11.7, AC 11.7D, AC 11.9, AC 12, AC 12D

Issued to
Dipl.-Ing. Herwarth Reich GmbH
Bochum, **Germany**

is found to comply with
DNV GL rules for classification – Ships
DNV GL rules for classification – High speed and light craft

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2021-01-27**.

Issued at **Hamburg** on **2016-01-28**

DNV GL local station: **Essen** for **DNV GL**

Approval Engineer: **Axel Albrecht**

Frank Lutz
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-020793-1**
Certificate No: **TAM0000054**

Product description

Highly Torsionally Flexible Rubber and Silicone Disc Coupling

Application/Limitation

The approval is valid for propulsion and auxiliary duty according to catalogue September 2015 edition and data sheets W4 AC 12/06 (rubber), W6 AC Si 05/06 (silicone) dated 2007-01-24, with the following limitations:

Permissible maximum torque range ΔT_{max} for repetitive loads as transient vibration during start and stop or clutching in is limited to 1.2 x T_{Kmax1}.

Correction factors for dynamical stiffness, damping and power loss as function of ambient temperature according to correction curves in data sheet Arcusaflex – Change of technical data at standard rubber elements (dated Bochum, 20.12.06/Bentele).

Maximum permissible ambient temperature is 70° C for rubber coupling and
100 °C for silicone coupling.

Couplings for single propulsion duty have to meet the requirements in the DNV GL Rules Pt.4, Ch.4, Sec.5 E Control, alarm, safety functions and indication.

Type Approval documentation

Tests carried out

Messungen an den drehelastischen Gummikupplungen Arcusaflex AC6 und AC7, RWTH Aachen dated September 1994.
Test report for DNV Type Approval (rubber elements) dated 2006-28-12.
Test report for DNV Type Approval (silicone elements) dated 2006-05-24

Marking of product

The product to be marked with manufacturer's name or trademark and type number identification.

Periodical assessment

For retention of the Type Approval, DNV GL surveyor shall perform survey every second year and before expiry date of this certificate to verify that the conditions of the type approval is complied with.

Other conditions

Connection to driven and driving unit is not included in this approval and has to be approved in each separate case.

The Type Approval Certificate No. TAM0000054 is replacing the following DNV and GL Certificates:

- DNV Certificate No. M-11790
- GL Certificate No. 98 166-97 HH