DNV·GL

Certificate No:
TAM00000V8

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Elastic Couplings

with type designation(s)
KC couplings sizes KC2 to KC400

Issued to
Kawasaki Heavy Industries, Ltd. Kobe Works
KOBE, Japan

is found to comply with
DNV GL rules for classification – Ships

Application :

The approval is given for propulsion and auxiliary duty with coupling ratings according to catalogue "Drawing no. KCN-0021 R4, 4th revision of June 22, 2005" and with limitations given on page 2 of the certificate.

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

Issued at **Høvik** on **2018-04-05**
This Certificate is valid until **2023-06-30**.
DNV GL local station: **Kobe**

Approval Engineer: **Dag Harald Williksen**

for **DNV GL**

Oddvar Deinboll
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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Product description

Torsionally elastic rubber couplings type KC (compression type) classified as follows: Example: KC-25-LF

KC – Kawasaki Compression type coupling
25 – Nominal torque (Nm)
L – Anti-clockwise rotation seen from driven side
F – Flange type

Application/Limitation

Coupling torque ratings, dynamic stiffness, permissible power loss and damping as per KC Coupling Catalogue "KCN-0021 R6, 6th revision of May 9th 2006" with the following conditions:

- Reference conditions as given in the catalogue (30 °C for damping and dynamic stiffness and 50 °C for permissible power loss)
- The dynamic stiffness and damping is to be corrected by a factor of 0,9 for ambient temperatures ≥ 60 °C
- Tolerances for the quasi-static stiffness testing is to be +10% and -20% of the static torsional stiffness given in KCN-0035 R2 Table 1.

Tests carried out

Static and dynamic tests

Marking of product

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

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform an assessment after 2 years and after 3.5 years to verify that the conditions of the type approval are complied with. A renewal assessment will be performed at renewal of the certificate.

In cases where the Type Approved product is manufactured at other companies, the Periodical Assessment shall verify that the Type Approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore, Periodical Assessment shall be carried out randomly at these companies.

END OF CERTIFICATE