

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Elastic Couplings

with type designation(s)
HTB series

Issued to

Renold Clutches and Couplings
Cardiff, United Kingdom

is found to comply with

DNV GL rules for classification – Ships

DNV GL rules for classification – High speed and light craft

Application :

The couplings are approved for propulsion and auxiliary duty. Ratings and coupling characteristics according to data in catalogue E4-05-117 rev. 103 and HTB 30000 data sheet.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2017-05-31**

This Certificate is valid until **2021-06-30**.

DNV GL local station: **Southampton**

for **DNV GL**

Approval Engineer: **Dag Harald Williksen**

.....
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.



Job Id: **262.1-008300-4**
Certificate No: **TAM00000JG**

Product description

Torsionally elastic coupling

Application/Limitation

The permissible damping power and other coupling characteristics have to be adjusted for the actual application according to guidelines given in catalogue E4-05-117 Rev. 103 and HTB30000 Data Sheet .

Permissible heat load: 60 % of catalogue values.

Maximum ambient temperature: 70° C for rubber and 100° C for silicone couplings.

Tolerance on dynamic stiffness data in catalogue: +/- 20 %

The connection to driven member is not covered by the approval and details have to be submitted for approval in each separate case.

Tests carried out

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, 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.

The objective of the Periodical Assessment is to verify that the conditions for the Type Approval are not altered since the Type Approval Certificate was issued.

END OF CERTIFICATE