

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Elastic Couplings**with type designation(s)  
**KC380**

Issued to

**Daihatsu Diesel Mfg. Co. Ltd Moriyama Division**  
**Moriyama Shiga Pref, Japan**is found to comply with  
**DNV GL rules for classification – Ships****Application :****The approval is given for auxiliary duty only.**  
**Coupling ratings according to data sheets "Particulars of Flexible Couplings", assembly drawings and with limitations given on page 2 & 3 of the certificate.****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2021-01-05**.Issued at **Høvik** on **2016-01-18**DNV GL local station: **Kobe**Approval Engineer: **Dag Harald Williksen**for **DNV GL**

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**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: **262.1-008854-4**  
Certificate No: **TAM000004M**

### Product description

Flexible rubber coupling "compression/bush-type".  
Five different coupling assemblies are available using the same rubber element type KC380.

### Application/Limitation

The elastic coupling shall only be applied for diesel-engine powered generator sets, and powered by Daihatsu 8DE-33, 6DK-26, 8DC-32 and 8DK-20 diesel engines.

Approved main data:

|                    |       |               |               |               |
|--------------------|-------|---------------|---------------|---------------|
| Diesel engine type |       | <b>8DC-32</b> | <b>8DK-20</b> | <b>8DK-20</b> |
| Engine speed       | [rpm] | 720 / 750     | 720 / 750     | 900           |

|                    |       |               |               |
|--------------------|-------|---------------|---------------|
| Diesel engine type |       | <b>6DK-26</b> | <b>8DE-33</b> |
| Engine speed       | [rpm] | 720 / 750     | 720 / 750     |



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### **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 a survey every second year and before the expiry date of this certificate to verify that the conditions of the type approval are complied with.

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. The main scope of the Periodical Assessment will normally include:

- Verification of the Type Approval applicant's production and quality system w.r.t. ensuring continued consistent production of the Type Approved products at the Type Approval applicant's own premises and at other companies that are given the responsibility for manufacturing of the products.
- Review of the Type Approval documentation and that this is still used as basis for the production
- Review of possible changes to the design, the material and the performance of the product
- Verification of the product marking.

END OF CERTIFICATE