DNV·GL

Certificate No:
TAS00000DH

TYPE APPROVAL CERTIFICATE

This is to certify:

That the C-Line Socket

with type designation(s)
CLS16-31.130.3.4_TA

Issued to
Schmiedestück-Vertrieb Feuerstein GmbH
Hattingen Nordrhein-Westfalen, Germany

is found to comply with
DNVGL-OS-E304 – Offshore mooring steel wire ropes, Edition July 2015

Application :

To be used for Temporary, Mobile and Long Term Mooring as defined in DNVGL-OS-E301, Position Mooring, July 2015

This Certificate is valid until **2021-05-03**.

Issued at **Høvik** on **2016-05-04**

for **DNV GL**

DNV GL local station: **Essen**

Approval Engineer: **Pierre-Eric Moulia**

Inger-Helene Hals
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

Steel wire rope pear shaped sockets in R4 grade: 13 sizes with MBL from 36 mm to 130 mm R4
Steel wire rope pear shaped sockets in R3 grade: 13 sizes with MBL from 36 mm to 130 mm R3
For long term mooring the sockets have a dedicated corrosion protection.

Application/Limitation

The sockets are to be used for Temporary, Mobile and Long Term Mooring as defined in Offshore Standard DNVGL-OS-E301 July 2015. The sockets fatigue life was evaluated to be better than stud less chain of the same nominal size.

The sockets shall be manufactured and tested in accordance with Offshore Standard DNVGL-OS-E304 July 2015

The approval is conditional that manufacturer is holding a DNVGL Approval of Manufacturer Certificate.

Individual Product Certificate is to be issued for each delivery.

Type Approval documentation
Tests carried out

Tests are to be carried out for each delivery/order, as described in Offshore Standard DNVGL-OS-E304 'Offshore Mooring Steel Wire Ropes' July 2015.

Marking of product

Each socket shall be marked (in a low stress area) according to Offshore Standard DNVGL-OS-E304 July 2015.

Periodical assessment

For retention of the Type Approval, DNVGL surveyor shall perform a survey every 2 ½ year and before the expiry date of this Certificate to verify that the conditions of the type approval are complied with.