

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Steel wire sockets**with type designation(s)
CR-Sockets

Issued to

De Haan Special Equipment B.V.
Stadskanaal, Groningen, Netherlands

is found to comply with

DNVGL-OS-E304 – Offshore mooring steel wire ropes, Edition July 2015**Application :****To be used for Temporary and Mobile Mooring as defined in DNVGL-OS-E301 "Position Mooring" July 2018**Issued at **Høvik** on **2018-11-09**This Certificate is valid until **2023-11-08**.DNV GL local station: **Rotterdam**for **DNV GL**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.



Job Id: **262.1-017654-2**
Certificate No: **TAS00001SZ**

This certificate replaces S-8122

Product description

Cast sockets for offshore mooring steel wires. 13 sizes from 140 ton to 1250 ton MBL.

Application/Limitation

The sockets are to be used in connection with chains for temporary or mobile mooring as defined in Offshore Standard DNVGL-OS-E301 Position Mooring July 2018.

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

Individual Product Certificate is to be issued for each delivery.

Type Approval documentation

Tests carried out

No prototype testing. The sockets shall be manufactured and tested in accordance with Offshore Standard DNVGL-OS-E304 'Offshore Mooring Steel Wire Rope' July 2015.

Marking of product

Socket should be marked with a unique identifier traceable to its certificate.

Periodical assessment

For retention of the Type Approval, a DNVGL surveyor shall perform a survey after 2 years and another one after 3,5 years (+/- 90 days), to verify that the type approval is complied with.