

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Hook

with type designation(s)
KS40 Hook

Issued to

GN Rope Fittings - Grofsmederij Nieuwkoop B.V.
NIEUWKOOP, Netherlands

is found to comply with
DNVGL-OS-E302 – Offshore mooring chain, Edition July 2015

Application :

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

This Certificate is valid until **2021-12-31**.

Issued at **Høvik** on **2017-01-01**

DNV GL local station: **Rotterdam**

Approval Engineer: **Pierre-Eric Moulia**

for **DNV GL**

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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:
Certificate No: **TAS00000NK**

Certificate TAS00000NK replaces S-7238

Product description

KS 40 Hook for mooring chains with sizes up to grade NV R4 95 mm diameter (MBL 9001 kN).

Application/Limitation

The Hook is to be used in connection with chains for Temporary, Mobile and Long Term Mooring as defined in Offshore Standard DNV-OS-E301 'Position Mooring' July 2015.

The Hook shall be manufactured and tested in accordance with Offshore Standard DNVGL-OS-E302 'Offshore Mooring Chain' July 2015.

The approval is conditional that 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

For every order, testing shall be carried out according to DNVGL-OS-E302 July 2015.

Marking of product

Each hook shall be marked (in a low stress area) according to Offshore Standard DNVGL-OS-E302 'Offshore Mooring Chain' July 2015 Ch2 Sec2 §1.4.1 & §3.9

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.