



Certificate no.:
TAS00004KA

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Installation Connecting Link**

with type designation(s)
QAC241120ICL-00

issued to

Qingdao Anchor Chain Co., Ltd.
Qingdao, Shandong, China

is found to comply with

DNV-OS-E302 – Offshore mooring chain, Edition July 2022
DNV standard DNV-ST-N001 – Marine operations and marine warranty
DNV standard DNV-ST-0378 – Offshore and platform lifting appliances

Application:

Lifting / installation of mooring lines

Issued at **Høvik** on **2025-01-14**

This Certificate is valid until **2030-01-13**.

for **DNV**

DNV local unit: **Qingdao**

Approval Engineer: **Pierre-Eric Moulia**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

R grade connecting link to be used for lifting and installation of offshore mooring chains.
This approval covers sizes from Ø50mm to Ø165mm in R3, R3S, R4 and R4S5 grades.
The various proof loads and break loads are specified in drawing QAC241120ICL-00 rev A0.

Application/Limitation

The approval is conditional that the manufacturer is approved by DNV for the given grades and diameters.

The link is to be used for installation of offshore mooring chains.

The connecting link shall be manufactured and tested in accordance with Offshore Standard DNV-OS-E302 "Offshore Mooring Chain" July 2022, but it cannot be used as part of a mobile or long term mooring system.

DNV-OS-E302 is a recognized standard for DNV-ST-N001 and DNV-ST-0378, so the connecting link could be used for offshore lifting (with design temperature -20 °C) provided the SWL and dynamic factor are checked by DNV.

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 DNV-OS-E302 July 2022.

Marking of product

Each connecting link shall be marked according to Offshore Standard DNV-OS-E302 July 2022 Ch2 Sec2 §1.4 & §3.9

Periodical assessment

For retention of this Type Approval, a DNV surveyor shall perform a periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days). The objective of the periodical assessment is to verify that the conditions for the Type Approval have not been altered. (Ref DNV-CP-0338 Type approval scheme).
Validity of this certificate can be checked at <https://approvalfinder.dnv.com/>

Manufactured by:

Qingdao Anchor Chain Co., Ltd.
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Shandong Province, China