Certificate No:
TAS000041D

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Special End Links

with type designation(s)
QAC230829D68SE
QAC230829D76SE

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

is found to comply with
DNV-OS-E302 – Offshore mooring chain, Edition July 2022
OCIMF Mooring Equipment Guidelines (MEG4), Fourth Edition 2018

Application :

To be used for Mooring of conventional tankers at single point moorings, and/or FPSO

To be used for Temporary, Mobile and Long Term Mooring, as defined in DNV-OS-E301 Position Mooring July 2021.

Issued at **Høvik** on **2023-10-09**
This Certificate is valid until **2028-10-08**.
DNV local unit: **Qingdao**

Approval Engineer: **Pierre-Eric Moulia**

for **DNV**

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.

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 300,000 USD.

Product description

Special End Link for Ø68mm studless chains in R3, R3S and R4 grades.
Special End Link for Ø76mm stud Link chains in R3, R3S and R4 grades.

Application/Limitation

The approval is conditional that the manufacturer is approved by DNV for making R3, R3S and R4 chains in Ø 68 mm and Ø 76 mm sizes.

The Special End Links are to be used in Mooring of conventional tankers at single point moorings, and/or FPSO.
The Special End Links are to be used in mooring chains for Temporary and Mobile Mooring as defined in Offshore Standard DNV-OS-E301 “Position Mooring” July 2021.

The chains including the Special End Links shall be manufactured and tested in accordance with Offshore Standard DNV-OS-E302 “Offshore Mooring Chain” July 2022.

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

Special End Link shall be marked according to Offshore Standard DNV-OS-E302 “Mooring Chain” July 2022 Ch2 Sec2 §2.12

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