DNV·GL

Certificate No:
TAS00001XU

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Anchoring - Anchor

with type designation(s)
HY-14 SB HHP Anchor 75kg to 30000kg

Issued to
Jiangsu Xiangsheng Heavy Industries Co., Ltd.
Rugao, China

is found to comply with
DNV GL rules for classification – Ships

Application :

Approved for use as High Holding Power anchor according to DNV GL Rules for weights from 75kg to 30000kg, with 25% weight reduction compared to normal stockless anchor.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2019-03-15**
This Certificate is valid until **2024-03-14**.
DNV GL local station: **Nantong**

Approval Engineer: **Chi Wan Bang**

for **DNV GL**

Aldo Matteucci
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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Job Id: **262.1-008054-3**
Certificate No: **TAS00001XU**

Product description

AC-14 Type HY-14 SB HHP Anchor from 75kg to 30000 kg

Application/Limitation

- This certificate(design assessment) is a verification of the design towards the listed rules/requirements. The assessment does not waive requirements for certification of the anchor (i.e. issuance of DNVGL product certificate) or classification procedure required by DNVGL rules for product installed on DNVGL classed vessels.
- The manufacturer is required to have a DNVGL surveyor witness all important production and tests as required.
- Each anchor and anchor shackle are to be delivered with required material certificates in accordance with Pt.3 Ch.1 Sec.3 [3.1] and Ch.11 Sec.1 [4.2] with the specifications from the approved drawing below. Materials specified to other standards than DNVGL Rules shall fulfill the relevant corresponding rules requirements in Pt.2.
- Surveyor is to issue DNVGL Product Certificate and each anchor is to be tested prior to issuance of this. Proof load applied is to correspond to the weight of a normal stockless anchor, which is 4/3 of the HHP anchor weight according to Pt.3 Ch.11 Sec.1 [4.5].
- Relevant NDT shall be performed after proof load testing according to Pt.3 Ch.11 Sec.1 [4.5], and to the attending surveyor's satisfaction.
- All welding is to be carried out by qualified welders and according to approved welding procedures.

Type Approval documentation

Tests carried out

As per report "The high holding power test document of HY-14 SB casting steel balance anchor" dated 2007-11-20.

Marking of product

Each anchor shall be stamped according to Rules Pt.3 Ch.11 Sec.1 [4.7].

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.

END OF CERTIFICATE