



Certificate no.:  
**TAS000049R**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

that the **High Holding Power Anchor**

with type designation(s)

**KHAC-14 Type Stockless Anchor & JIS (A) Type Stockless Anchor**

issued to

**Kiyomoto Co., Ltd. Steel Casting Division**  
**Takeo-city, 41, Japan**

is found to comply with

**DNV rules for classification – Ships**

## Application:

**JIS (A) anchors are approved for use as ordinary stockless anchor according to DNV Rules for weight range from 120 kg to 18800 kg.**

**KHAC-14 anchors are approved for use as High Holding Power (HHP) stockless anchor according to DNV Rules for weight range from 90 kg to 14100 kg with 25% weight reduction compared to ordinary stockless anchor.**

Issued at **Høvik** on **2024-10-08**

This Certificate is valid until **2029-10-07**.

for **DNV**

DNV local unit: **Japan CMC**

Approval Engineer: **Lap Van Duong**

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.



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## Product description

JIS(A) stockless anchor for weight range from 120 kg 18800 kg  
KHAC-14 High Holding Power (HHP) stockless anchor for weight range from 90 kg to 14100 kg

## Application/Limitation

- Each anchor and shackle shall be delivered with the required product and material certificates in accordance with DNV-RU-SHIP Pt. 3 Ch. 1 Sec. 3 [3] and Pt. 3. Ch. 11 Sec. 1 [4.2].
- The manufacturer is required to have a DNV surveyor witnesses all important production, and tests as required.
- All welding is to be carried out by qualified welders and according to approved welding procedures.
- Relevant NDT shall be performed after proof load testing.
- Proof load for HHP anchor shall correspond to the weight of normal stockless anchor i.e., 4/3 of HHP anchor weight according to Pt. 3 Ch.11 Sec. 1 [4.5].
- Assembly and fitting tolerance shall be in according with Pt. 3 Ch. 11 Sec. 1 [4.4].

## Type Approval documentation

### Tests carried out

Type tests were carried out, witnessed and approved by NK in January 1982

- Holding power field test report of AC -14 Type Anchor
- Approval test report for AC-14 Type High Holding Power - Manufacturing and Inspection Procedure

### Marking of product

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

### Periodical assessment

For retention of the Type Approval, a DNV 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 DNV-CP-0338.