Certificate no.:
TAS000051W

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Anchoring Equipment

with type designation(s)
GJW Super Box Swivels for chain ø16-ø117, ø132

issued to
G.J. Wortelboer Jr. B.V.
Rotterdam, Zuid-Holland, **Netherlands**

is found to comply with
DNV rules for classification – Ships

Application:

Approved for use as connection link between anchors and corresponding anchor chains with sizes & grade up to K3-Quality as per current Rules of Det Norske Veritas.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.
Max. break. load/SWL **According to rule reference for size chosen**

Issued at **Hamburg** on **2025-11-06**
This Certificate is valid until **2030-11-05**.
DNV local unit: **Netherlands West FIS**

for **DNV**

Approval Engineer: **Daniel Abt**

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

GJW Super Box Swivels are designed for connecting anchors to anchor chain in compliance with requirements of DNV Rules for classification - Ships for anchor chain of NV K3 quality. Duplex stainless steel material can be used in the range from ø16 to ø48.

Application/Limitation

- The relevant size of swivel is defined by the number suiting the diameter of the actual anchor chain.
- Each swivel is to be delivered with its own product certificate issued by DNV according to Pt.3 Ch.1 Sec.3 [3]. The certificate is to contain following particulars:
    a) Purchaser's name, order number and vessel identification, when known
    b) Manufacturer's name and order number
    c) Accessory description and grade of chain it suits
    d) Reference to reports for material testing including heat treatment
    e) Proof test load and reference to breaking test or its alternative procedure
    f) Statement to the effect that dimentional measurements, visual inspection and non-destructive examination, as far as relevant, are satisfactory
    g) Identification mark and position
- Material quality is to comply with Pt.3 Ch.11 Sec.1 [5.2] and Pt.2 Ch.2, and is to be delivered with certificate as specified in Pt.3 Ch.1 Sec.3 [3].
- Welding procedure for the nut to male part of swivel is understood established based upon the heat treatment given to the parts.
- Sub suppliers as specified in the received documentation is understood quality checked by the certificate holder and information released to the DNV local office.

Type Approval documentation

Tests carried out

Type testing is not carried out.
Production testing shall be as follows:

- Each swivel shall be proof load tested according to Pt.3 Ch.11 Sec.1 [5.4] and Table 6.
- Samples of swivels shall be breaking load tested according to Pt.3 Ch.11 Sec.1 [5.5] and Table 6.
- Samples of swivels shall be mechanical tested according to Pt.3 Ch.11 Sec.1 [5.6].

Marking of product

Each swivel shackle shall be stamped according to Rules Pt.3 Ch.11 Sec.1 [5.8].

Periodical assessment

For retention of Type Approval, a DNV surveyor shall perform periodical assessment after 2 years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for approval are complied with. Reference to DNV-CP-0338.

END OF CERTIFICATE