DNV·GL

Certificate No:
**TAS000024G**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Cargo Securing Device**

with type designation(s)
**Quick Tie QT-TV**

Issued to
**GERMAN LASHING Robert Böck GmbH**
**Bremen, Germany**

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

## Application :

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

| | |
|---|---|
| **SWL, tension (kN)** | **250** |
| **SWL, shear (kN)** | **210** |
| **SWL, compr. (kN)** | **100** |
| **SWL, lifting (kN)** | **125** |

Issued at **Hamburg** on **2019-08-08**
This Certificate is valid until **2024-08-07**.
DNV GL local station: **Hamburg CMC**

Approval Engineer: **Daniel Abt**

for **DNV GL**

**Andree Orth**
**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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## Product description

Quick Tie QT-TV

## Application/Limitation

| Load | Tension [kN] | Shear [kN] | Compression [kN] | Lifting [kN] |
|---|---|---|---|---|
| Test load | 313 | 263 | 125 | 250 |
| Breaking load | 500 | 420 | 200 | 500 |

Tests to be carried out:

- Production testing: At least 2% of the iterms delivered are to be selected and subjected to the test load
- Material tests are to be included energy testing at -20°C, with the impact energy requirements acc. to DNVGL-CP-0068. The material shall be according to the approved drawings. Maternal certificates shall be 3.1 acc. to DIN EN 10204.

## Type Approval documentation

| Drawing No. | Rev. | Title |
|---|---|---|
| QT-TV_Complete_a | a | QT-TV Container-Quick-Tie Top Version Complete |
| QT-TV_Thread Bar_a | a | QT-TV Container-Quick-Tie Thread Bar 55 Tons |
| QT-TV_Hammer | | QT-TV Container-Quick-Tie Hammer |
| QT-TV_Disc | | QT-TV Container-Quick-Tie Disc |
| QT-TV_Span Plate_a | a | QT-TV Container-Quick-Tie Span Plate |
| QT-TV_Bridge | | QT-TV Container-Quick-Tie Bridge |

## Tests carried out

The prototype test was carried out in Nanjing, China, dated 2019-06-17 in accordance with the DNVGL-CP-0068.

## Marking of product

Each item shall be marked by manufacturer for traceability.

## Periodical assessment

For retention of type approval, a DNVGL-surveyor shall perform a survey after 2 and 3.5 years, to verify that the type approval is complied with.