



Certificate No:
TAS00003EK

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cargo Securing Devices

with type designation(s)
Turnbuckle TB-3SLRV...

Issued to

GERMAN LASHING Robert Böck GmbH
Bremen, Germany

is found to comply with
DNV rules for classification – Ships

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.
SWL, tension (kN) 180

Issued at **Hamburg** on **2022-07-08**

This Certificate is valid until **2027-07-07**.

DNV local station: **Hamburg – CMC North/East**

Approval Engineer: **Aadil Wafdi**

for **DNV**

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.

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.



Form code: TA 251

Revision: 2021-03

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Product description

Turnbuckle TB-3SLRV
Turnbuckle TB-3SLRV25
Turnbuckle TB-3SLRV35

Application/Limitation

Load	Tension [kN]
Test Load	225
Breaking Load	360

Tests to be carried out:

- Production testing: At least 2% of the items 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 DNV-CP-0068. The material shall be according to the approved drawings. Material certificates shall be 3.1 acc. to ISO 10474:2013.

Type Approval documentation

Drawing No.	Rev.	Title
TB-3SLRV_Complete_d	d	Turnbuckle TB-3SLRV...
TB-3SLR_Body	h	Body
TB-3AR_Knob Pocket_d	d	Knob Pocket
TB-3AR_LowerBridge_f	f	Lower Bridge
TB-3SLR_Locking Plate_S_d	d	Locking Plate S
TB-3SLR_Jaw Complete _j	j	Jaw Complete Welded Tr32x4
TB-3_Jaw_i	i	Jaw
TB-3SLRV_Claw Nut_c	c	Claw Nut
TB-3A_Securing Bolt	i	Securing Bolt for Jaw
TB-3SLV_Spring_f	f	Compression Spring
TB-3SLRV_Intermediate Plate-b	b	Intermediate Plate

Drawing approval: Ref.No. 12-006217, dated 26.04.2012
Test report No.: CP-0068, dated 2022-06-30.

Tests carried out

The prototype test was carried out in Nanjing, P.R. China, dated 2022-06-30 in accordance with the DNV-CP-0068.

Marking of product

Each item shall be marked by manufacturer for traceability.

Periodical Assessment

For retention of the Type Approval, a DNV surveyor shall perform a survey after 2 and 3.5 years, to verify that the Type Approval is complied with.