



Certificate no.:
TAD00001M9

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Hoisting, Rotation and Pipehandling Equipment**

with type designation(s)
Guide Line Tensioner

issued to

Imenco AS
AKSDAL, Norway

is found to comply with

DNV-OS-E101 – Drilling facilities, Edition July 2021

DNV statutory interpretations DNV-SI-0166 – Verification for compliance with Norwegian shelf regulations, Edition July 2021

Application:

See next page.

Issued at **Høvik** on **2024-03-06**

This Certificate is valid until **2029-03-05**.

for **DNV**

DNV local unit: **West Norway CMC**

Approval Engineer: **Axel Janson**

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: 2023-09

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Coded and Standards used as reference

DNV-ST-0378 Offshore and platform lifting appliances, Edition July 2019

Product description

Cylinder-type guide line tensioner.

Application/Limitation

<u>Design Parameter</u>	<u>Value</u>	<u>Equivalent</u>
Max. Load Rating:	2 mT	4 409 lbs
Max. Working Pressure:	100 bar	1 450 psi
Min. Design Temperature:	-20 °C	-4 °F

Type Approval documentation

Tests to be carried out on each individual product

Test Procedures:

1. Functional testing shall be performed in accordance with DNV-OS-E101 Ch.2 Sec.8 §3.5, and the testing shall be witnessed by a DNV surveyor.
2. Charpy Impact testing shall be conducted according to DNV-OS-E101 Ch.2 Sec.2.

NDE Procedures:

3. Non-destructive examination methods shall be in accordance with DNV-OS-E101 Ch.2 Sec.8.

Welding Procedures:

4. Qualification of welding procedures and qualification of welders shall be in accordance with DNV-OS-E101 Ch.2 Sec.8.

Marking of product

For traceability, marking of each product shall be carried out in accordance with DNV-ST-0378 §14.5 and contain:

- Part number
- Serial number
- Maximum Working Pressure
- Manufacturers name or mark
- Additional marking as relevant

Conditions and comments

- All materials for load-carrying parts are to be delivered with 3.1 certificates per ISO 10474 or equivalent, documenting mechanical properties and chemical composition in accordance with the Type Approval documentation.
- Supports and connections to deck structure are not covered by this approval.
- Sheaves, anti-recoil valve and hydraulic cylinder shall be delivered with separate DNV Product Certificate.
- This Type Approval Certificate replaces the previously issued Type Approval Certificate D-3312.

Periodical assessment



Job ID: **262.1-005947-2**
Certificate no.: **TAD00001M9**

For retention of this Type Approval Certificate, product audits shall be performed every second year by a DNV surveyor. Reference is made to DNV-CP-0338.

END OF CERTIFICATE