Certificate no.:
TAS00004GR

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Lifting Frame

with type designation(s)
Constructor Compact ROV Frame & Lifting Arrangement

issued to
KystDesign AS
AKSDAL, **Norway**

is found to comply with
DNV standard DNV-ST-0378 – Offshore and platform lifting appliances

Application:

Constructor Compact ROV Frame & Lifting Arrangement

Issued at **Høvik** on **2024-11-12**
This Certificate is valid until **2029-11-11**.
DNV local unit: **West Norway CMC**

Approval Engineer: **Lap Van Duong**

for **DNV**

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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

Constructor compact frame & lifting arrangement

Safe working load:
- 3 tonnes for lower lifting lugs for work module
- 7 tonnes for upper lifting point and emergency recovery lift point.

Dynamic factor: 1.3
Minimum design temperature: -20 °C
Complete ROV weight: 4226 kg, including a 250 kg payload for additional buoyancy. The complete ROV weight is neutrally buoyant in seawater.
Weight of TMS: 3500 kg

Application/Limitation

1. Materials specified in the drawings shall be delivered with material certificates, at a minimum complying with EN 10204/3.1.
2. All welding shall be carried out by qualified welders and according to approved welding procedures acceptable to the surveyor.
3. Extent of non-destructive testing of welds shall comply with DNV-ST-0378 Sec.3 and shall be carried out to the attending surveyor's complete satisfaction.
4. The various components transferring load such as hook, wire rope, socket, shackle etc. shall be manufactured according to recognized standards or codes and shall be delivered with relevant ILO form certificates.

Type Approval documentation

Tests carried out

Each unit requiring DNV certification shall be tested in according with DNV-ST-0378 Section 14.

Marking of product

Marking of each product shall be in according with DNV-ST-0378 Section 14.

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.