

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Well Testing Equipment**

with type designation(s)

S6RT-AB, RETRIEVAL TOOL, POWER PISTON/FIN, P/N 101588335 REV. AH

Issued to

OneSubsea LLC - Houston
Houston, TX, USA

is found to comply with

DNVGL-OS-E101 – Drilling facilities, Edition January 2018**DNVGL-SI-0166 – Verification for compliance with Norwegian shelf regulations, Edition July 2018****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Houston** on **2021-07-21**This Certificate is valid until **2026-07-20**.for **DNV GL**DNV GL local station: **Houston, Approval CMC**Approval Engineer: **Pari Natarajan**

Meindert van Mierlo
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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.



Job Id: **262.1-034358-1**
Certificate No: **TAD00001BJ**

Manufacturing Location

- OneSubsea, Taubate, Brazil

Product description

S6RT-AB, RETRIEVAL TOOL, POWER PISTON/FIN, P/N 101588335 REV. AH

Design codes/standards used as references

- API 6A, Specification for wellhead and tree equipment, 21st Edition
- ISO 13628-7, Completion/Workover riser systems, 1st Edition, 2005

Application/Limitation

Internal Working Pressure	: 15000 psi	(!Undefined Bookmark, .00 6893 MPa)
Internal Test Pressure	: 22500 psi	(!Undefined Bookmark, .00 6893 MPa)
Max. Hanging Load at 15,000 psi	: 500,000 lbf	(2224 kN)
Max. Hanging Load at 0 ksi	: 1,200,000 lbf	(5338 kN)
Min. Design Temperature	: 32°F	(0°C)
Max. Design Temperature	: 200°F	(93.3°C)
Corrosion Allowance	: 0.006 in	(!Syntax Error mm)
Service	: Sour H ₂ S	

Type Approval documentation

Tests carried out

100027728 Rev. AE, FAT Mechanical Retrieval Tool, SenTREE HP

Marking of product

For traceability the following marking is to be carried out on each product:

1. Serial No.
2. Marking as specified in API references.
3. Additional marking at the manufacturer's discretion

Periodical assessment

For retention of the Type Approval, DNV GL's surveyor shall perform a retention survey every second year in accordance with DNV GL Type Approval Scheme DNVGL-CP-0338.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnvgl.com>

Other conditions/ comments

- Procedures related to testing, welding, NDE, and other quality control requirements are to be reviewed/approved by DNV GL's local surveyor.
- When DNV GL Product Certification is required, each product is to be surveyed during fabrication in accordance with the requirements for Category I equipment as defined in DNV GL's Offshore Standard DNVGL-OS-E101.

End of Certificate