



Certificate no.:
TAD00001R8

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Miscellaneous

with type designation(s)
Test Hub, 21-1/4-5M W/ 1/2" NPT & CRA R.G.

issued to
TPS Woodco USA, LLC
Houston, TX, USA

is found to comply with
DNV-OS-E101 – Drilling facilities, Edition July 2024
DNV statutory interpretations DNV-SI-0166 – Verification for compliance with Norwegian shelf regulations,
Edition July 2021

Application:

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

Issued at **Houston** on **2025-01-06**

This Certificate is valid until **2030-01-05**.

for **DNV**

DNV local unit: **Certification & Inspection Services**

Approval Engineer: **Xiangwen Maggie Wang**

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

- Test Hub 21-1/4-5M W/ 1/4-14" NPT Test Port W/ (3) 1-1/4-7UN Lifting Holes

Reference standards

- API 6A, *Specification for Wellhead and Tree Equipment*, 21st Edition
- API 16A, *Specification for Drill-through Equipment*, 4th Edition

Application/Limitation

- Max. Working Pressure: 5,000 psi
- Design Temperature: -20 °F to 350 °F (T-20/350)
- Material Class: EE
- Product Specification Level: 2
- Service: Standard

Type Approval documentation

Tests carried out

Not required on loose parts.

Marking of product

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

1. Serial No.
2. Manufacturer's name or trademark.
3. Additional Marking at manufacturer's discretion.

Periodical assessment

For retention of the Type Approval, DNV's surveyor shall perform periodical assessment after 2 years (+/- 90 days) and after 3.5 years (+/- 90 days) in accordance with DNV's Class Programme DNV-CP-0338, Section 4.

Other conditions/comments

1. Procedures related to testing, welding, NDT, and other quality control requirements are to be reviewed/approved by DNV's local surveyor.
2. DNV ref.: A1634847.

END OF CERTIFICATE