



Certificate No:
TAD00001J4

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Manifold

with type designation(s)
MPD BUFFER MANIFOLD, 7 1/16"-5K, S1189

Issued to
SRI Energy Inc.
Sugar Land, TX, USA

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 :

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

Issued at **Houston** on **2023-08-25**

This Certificate is valid until **2028-08-24**.

for **DNV**

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

Approval Engineer: **Pari Natarajan**

Mark Miser
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: 2022-12

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Manufacturing facility

- Sri Energy Valves Private Limited, India.

Design codes/standards used as references

- API 6A, Specification for Wellhead and Tree Equipment, 21st Edition

Application/Limitation

Design Parameter	Value
Nominal Size	7-1/16"
Rated working pressure	5,000 psi
Hydrostatic Test Pressure	7,500 psi (Individual components)
Temperature Rating	P+U, (-20°F to +250°F)
Material Class	EE
Product Specification Level	PSL 3
Service	Sour (H2S)
System/ Equipment	Managed Pressure Drilling (MPD) systems, Manifolds

Type Approval documentation

Design Specifications

Calculations

Material Specifications

Tests carried out

- Reviewed the hydrostatic test report for the components and assembly with serial number 30000968-001.

Marking of product

For traceability, the following markings shall be carried out on each product:

- Unique product identification (i.e., serial no.)
- Marking as stated in API 6A
- Marking according to the manufacturer's specification(s)

Periodical assessment

Periodical assessments for type approvals will be required after two years (+/- 90 days) and after three-and-a-half years (+/- 90 days) in accordance with DNV-CP-0338, Section 4.

Other Comments and Conditions

- Design review of gate valve, pressure relief valve and Skid/ Lifting frame are excluded from the scope of this manifold type approval.
- Procedures related to testing, welding, NDT, and other quality control requirements are to be reviewed/ approved by the DNV local surveyor.
- For projects with DNV classification, gate valves and pressure relief valves must be accompanied by a DNV product certificate.
- Manifolds must be surveyed during fabrication to ensure they comply with Category I equipment requirements, as defined in DNV-OS-E101, for projects requiring DNV product certification.
- DNV Reference Project: A1327248

END OF CERTIFICATE