



Certificate no.:
TAD00001SR

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Blind Flange, Spacer Spool & Cross Assembly**

with type designation(s)
3-1/16"-15M Blind Flange, Spacer Spool & Cross Assembly

issued to

National Oilwell Varco, L.P. - Rig Technologies Division - WLY
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 when accompanied by a valid DNV Product Certificate.

Issued at **Houston** on **2025-12-04**

This Certificate is valid until **2030-12-03**.

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

1. Blind Flange, Air PKT 3-15M, BX154 CRA RG, LT/H2S, PSL 3, P/N: 18060859-3XX and 18060859-4XX
2. Cross Assembly, 4-Way, Studded, 3-1/16-15M, BX-154, CRA, P/N: 18370725-3XX and 18370725-4XX
3. Spacer Spool, FM, 3-15M, BX-154, CRA, PSL3, 21ST ED, P/N: 18333727-3XX and 18333727-4XX

Reference standards

- API 6A, *Specifications for Wellhead and Tree Equipment*, 21st edition

Application/Limitation

- Max. Working Pressure: 15,000 psi
- Shell Test Pressure: 22,500 psi
- Design Temperature: -20 °F to 250 °F
- Service: Standard
- Material Class: DD
- Product Specification Level: 3
- Performance Requirement: 1

Type Approval documentation

Tests carried out

1. Doc 130426836, Spool, BOP Stack; Spacer-Straight; Flange; 3-1/16 x 15M; Flange; Inlay CRA; L 5 in; DNV
2. Hydrostatic Test Report, Cross/Tee BOP Stack Studded Cross Outlets 4: 15000 psi 3-1/16x3-1/16: CRA Assembly

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.: A1806795.

Manufactured by:

1. **NOV MFG India Private Limited**, Plot No. 4, Gat No.51/1,51/2,51/3,52(P),53(P),54(P),55,56,57,58 and 59 (P)Village Bhamboli, Taluka Khed, Chakan Pune 410501 India
2. **National Oilwell Varco, L.P. - Rig Technologies Division** – Creekmont, Houston, TX USA

END OF CERTIFICATE