

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Choke**

with type designation(s)
2-1502 15K 1 CH2M Manual Choke
Part No. 20413408-2, Rev. 1

Issued to

National Oilwell Varco
Houma, LA, USA

is found to comply with

DNVGL-OS-E101 – Drilling plant, Edition July 2015
DNVGL-SI-0166 – Verification for compliance with Norwegian shelf regulations, Edition July 2015

Application :

Nom Size: 2-1502M x 2-1502M
Max Orifice: 1 in
Max Working Pressure: 15,000 psi
Max Test Pressure: 22,500 psi
Temp Class: P+U (-20 to 250 °F)
Material Class: BB (General Service)
Product Spec Level: 2
Performance Requirement: 2

Issued at **Houston, TX** on **2017-03-23**

This Certificate is valid until **2022-03-22**.

DNV GL local station: **Approval CMC**

Approval Engineer: **Kevin Bui**

for **DNV GL**

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Christian Nilsen
Team Lead

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.



Job Id: **262.1-013568-16**
Certificate No: **TAD00000N9**

References

- API 6A, Specification for Wellhead and Christmas Tree Equipment, 20th Edition
- Project PP176069-2, PO CV17P00180, Attn. Charles.Calkins@nov.com

Type Approval Documentation

<u>Title</u>	<u>Drawing No./Rev.</u>	<u>Specification No./Rev.</u>	<u>Note</u>
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- Note: Other part numbers or revisions may be acceptable under this TAC provided critical aspects of the design remain the same for fit, form and function. Changes shall be documented and approved by NOV Engineering and Quality. DNVGL Surveyor shall verify these changes before issuance of Product Certificates.

Calculation Reports

<u>Document No./Rev.</u>	<u>Title</u>
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Test Reports

<u>Project No./Rev.</u>	<u>Title</u>
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Fabrication Procedures

- Procedures related to NDE, welding, testing, marking etc shall be reviewed by DNVGL Surveyor.

Marking of Products

- Product and databook shall be marked at least with part and serial numbers for traceability.

Periodical Assessments

- Periodical assessments shall be carried out bi-yearly for retention of TAC.

Comments

- This TAC replaces TAC No. D-4792.