DNV·GL

Certificate No:
TAS00001XC

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Portable Offshore Units

with type designation(s)
Skid for Diamond Choke Manifold

Issued to
NOV Completion & Production Solutions
Dubai, United Arab Emirates

is found to comply with
DNV GL standard DNVGL-ST-E273 – 2.7-3 Portable offshore units, December 2016

Application :

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

Max. gross mass (kg)	**3000**
Max. payload (kg)	**500**
Max. sling leg angle	**45**

Issued at **Aberdeen** on **2019-02-05**

This Certificate is valid until **2024-02-04**.

for **DNV GL**

DNV GL local station: **VMC UAE**

Approval Engineer: **Satya Shyamala Kuppili**

Alex Doig
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.

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Job Id: **262.1-030634-1**
Certificate No: **TAS00001XC**

Product description

Maximum external dimensions (LxWxH)	: 2010 x 2000 x 440 mm
Tare mass*	: 2500 kg
Type	: B
Operational Class	: R45

*) Tare mass is maximum tare mass of Skid only, it shall be confirmed by weighing and shall never exceed the maximum gross mass stated on the front page of this certificate. Equipment and associated mechanical components have not been included.

Application/Limitation

Shackle size	: 4.75 t
Minimum design temperature	: -20 ºC

DNV GL surveyor to witness important production and test events and issue Form no. 49.01a "Certificate for Portable Offshore Unit" for each unit.

Type Approval documentation

Tests carried out

Prototype 10712-MFD-01 strength tested according to DNVG-ST-E273.

Marking of product

Marking is to be carried out in accordance with to DNVG-ST-E273 Section 6.

Periodical assessment

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNVGL-CP-0338 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonised with other surveys and audits carried out.

END OF CERTIFICATE