

# TYPE APPROVAL CERTIFICATE

## This is to certify:

That the Offshore Container

with type designation(s)

**10 Series Module API 16D (6201041390)**

**10 Series Module API 16D ARC (18362842-001)**

**10 Series Module SS (6201052896)**

Issued to

**National Oilwell Varco UK Limited**  
**Kintore, Aberdeenshire, United Kingdom**

is found to comply with

**DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, January 2021**

**ISO 10855:2018 Offshore containers and associated liftings sets – Design, manufacture, testing, inspection and marking**

**IMO/MSC Circular 860**

## Application :

| Type                                | Max. gross mass<br>(kg) | Max. payload<br>(kg) | Max. sling leg<br>angle | Enhancement<br>factor |
|-------------------------------------|-------------------------|----------------------|-------------------------|-----------------------|
| <b>10 Series Module API 16D</b>     | <b>3500</b>             | <b>750</b>           | <b>45</b>               | <b>2.403</b>          |
| <b>10 Series Module API 16D ARC</b> | <b>3500</b>             | <b>750</b>           | <b>45</b>               | <b>2.403</b>          |
| <b>10 Series Module SS</b>          | <b>3500</b>             | <b>750</b>           | <b>45</b>               | <b>2.403</b>          |

Issued at **Aberdeen** on **2021-05-07**

This Certificate is valid until **2026-05-06** .

for **DNV**

DNV local unit: **Aberdeen**

Approval Engineer: **Alex Doig**

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**Brendan Ward**  
**Delivery Lead - Offshore Containers**

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.



## Manufactured by

| Manufacturer Name | Location | DNV GL Local Office | DNV GL CIM Number |
|-------------------|----------|---------------------|-------------------|
|                   |          | Ostrava             | 10061202          |
|                   |          | Aberdeen            | 10117849          |
|                   |          | Singapore           | 111232            |
|                   |          | Aberdeen            | 10110171          |
|                   |          | Ostrava             | 10047195          |
|                   |          | Aberdeen            | 1246999           |
|                   |          | Dubai               | 10121862          |
|                   |          | Singapore           | 1098319           |
|                   |          | Houston             | 10462843          |
|                   |          | Rotterdam           | 10489253          |
|                   |          | Kuala Lumpur        | 1003901           |

## Responsibility

National Oilwell Varco UK Ltd. takes full responsibility that both the design and production are in compliance with the Rules, Standards and / or Regulations listed on page 1 of this Type Approval Certificate.

## Product description

| Type                         | Maximum external dimensions (LxWxH) | Tare mass* |
|------------------------------|-------------------------------------|------------|
| 10 Series Module API 16D     | 2200 x 1580 x 1862 mm               | 2750 kg    |
| 10 Series Module API 16D ARC | 2200 x 1580 x 1866 mm               | 2750 kg    |
| 10 Series Module API SS      | 2272 x 1620 x 1955 mm               | 2750 kg    |

\* Tare mass is to be confirmed by weighing and it shall never exceed the maximum gross mass stated on the front page of this certificate.

## Application/Limitation

| Type                         | Design temperature | Minimum shackle pin diameter |
|------------------------------|--------------------|------------------------------|
| 10 Series Module API 16D     | -20 °C             | 21.6 mm                      |
| 10 Series Module API 16D ARC | -40 °C             | 21.6 mm                      |
| 10 Series Module API SS      | -20 °C             | 21.6 mm                      |

The DNV GL surveyor shall witness all important production and testing events and issue a certificate for each container. The certificate is only valid when the container is fitted with a DNVGL-ST-E271 certified lifting set.

This Type Approval certificate is not valid for designs, components, equipment, systems or products which are subject to classification by DNV GL.

## **Type Approval documentation**

### **Tests carried out**

This Type Approval covers design only. i.e. the Type Approval is not valid for the final product, but may be used as basis for obtaining a product certificate.

### **Marking of product**

Each container to be marked in accordance with DNV / ISO requirements, including:

- Data and inspection plates
- DNV emblem for offshore containers
- VL mark to be hard stamped on the data plate
- Manufacturer's Serial Number to be welded on frame

### **Periodical assessment**

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out according to DNVGL-SE-0284 at 2 and 3.5 year intervals. Periodical assessments will, when possible, be harmonised with other surveys and audits carried out.

## **END OF CERTIFICATE**