



Certificate No:
TAS000042D

TYPE APPROVAL CERTIFICATE

This is to certify:

That the offshore container

with type designation(s)
Frame for 100 BBL surge tank

Issued to

Magnum Technology Center FZE
Sharjah, United Arab Emirates

is found to comply with

DNV standard DNV-ST-E271 – 2.7-1 Offshore containers, March 2023
ISO 10855-1:2018 Offshore containers and associated liftings sets – Part 1: Design, manufacture and marking of offshore containers
IMO/MSC Circular 860

Application :

Max. gross mass (kg)	22000
Max. payload (kg)	16000
Max. sling leg angle	38
Enhancement factor	1.130

Issued at **Aberdeen** on **2023-10-26**

This Certificate is valid until **2028-10-25** .

for **DNV**

DNV local unit: **Abu Dhabi**

Approval Engineer: **Elisabeth Legg**

Satya Shyamala Kuppli
Delivery Lead - 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.



Form code: TA 281

Revision: 2022-12

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Product description

Type	Maximum external dimensions (LxWxH)	Tare mass*
Frame for 100 BBL surge tank		6000 kg

*) Tare mass is to be confirmed by weighing. The sum of tare and payload shall never exceed the maximum gross mass stated on the front page of this certificate.

Application/Limitation

Type	Minimum design temperature	Minimum shackle pin diameter
Frame for 100 BBL surge tank		35.1 mm

The DNV 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 DNV-ST-E271 certified lifting set.

This approval has only considered lifting in the horizontal orientation and the pad eyes to be used for that lifting arrangement.

The storage tank shall be transported empty of fluids during all lifting and transportation activities.

Type Approval documentation

Tests carried out

Prototype tested in accordance with DNV-ST-E271.

Marking of product

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

- Data and inspection plates
- DNV emblem for offshore containers
- NV mark to be hard stamped on the data plate
- Manufacturer's Serial Number to be welded on frame
- This design incorporates removable primary items, these items shall be marked with frame's serial number.
- The frame shall be stencilled with words to the effect of "removable items shall be fitted during all lifting and transportation activities".

Periodical assessment

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

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>