

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Offshore Container**with type designation(s)
16-Cylinder Gas Rack

Issued to

Kejuruteraan Mega Niaga Sdn Bhd
Labuan, Wilayah Persekutuan, Malaysiais found to comply with
DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, August 2017
IMO/MSC Circular 860**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Max. gross mass (kg) 2500**
Max. payload (kg) 1650
Max. sling leg angle 21
Enhancement factor 2.880Issued at **Aberdeen** on **2018-12-03**This Certificate is valid until **2023-12-02**.for **DNV GL**DNV GL local station: **Kuala Lumpur**Approval Engineer: **Satya Shyamala Kuppili**

Elisabeth Legg
Principal Engineer

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: **262.1-030109-1**
Certificate No: **TAS00001U9**

Product description

Maximum external dimensions (LxWxH) : 1450 x 1505 x 2127 mm
Tare mass*) : 850 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

Design temperature : 0 °C
Minimum shackle bolt diameter : 18.9 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 approval does not apply to the gas cylinders to be transported by this frame. If gas cylinders are to be installed and connected to manifolds, the unit as a whole (frame and payload) shall be approved and certified according to IMDG Chapter 6.2 by an authorised certifying body.

Type Approval documentation

Tests carried out

Prototype KMN-GR16-1 tested according to according to DNVGL-ST-E271.

Marking of product

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

- Data and inspection plates
- DNV GL emblem for offshore containers
- VL mark to be hard stamped on the data plate
- Manufacturer's Serial Number to be welded on frame
- Words to the effect of "Only to be used in temperate climates".

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