



Certificate No:
TAD00001H0

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Well Testing Equipment

with type designation(s)
Separator Assembly SEP-NGT

Issued to

ETUDES ET PRODUCTIONS SCHLUMBERGER SAS
CLAMART, France

is found to comply with
DNV-OS-E101 – Drilling facilities, Edition July 2021

Application :

Valid for products not subject to DNV classification requirements.

Issued at **Paris** on **2022-10-14**

This Certificate is valid until **2027-10-13**.

DNV local unit: **VMC UAE**

for **DNV**

Approval Engineer: **Georgios Mandrekas**

Bartłomiej Zygmunt Kolosowski
Head of Section

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.



Product description

SEP-GT Test Separator 48"x12.5' with a 20" manhole. The separator is designed to separate, meter, and sample all elements or phases of the effluent.

Codes and standards used as reference

- [1] ASME Boiler & Pressure Vessel Code Section VIII div. 2 (2021)
- [2] ASME B31.3 Process Piping (2020)
- [3] ISO 15156 / NACE MR 0175 Materials for Use in H₂S Containing Environments in Oil and Gas Production (2015)

Application/Limitation

Approved manufacturer is: Ferrofab FZE, Jebel Ali Free Zone, Dubai, United Arab Emirates

Design limitations:

<u>Design Parameter</u>	<u>Value</u>
Max. Design Pressure at max. Temperature	99.3 bar(g) at 38 °C
Max. Design Pressure at max. Temperature	90.0 bar(g) at 149 °C
Min. Design Temperature	-20 °C
Fluid	Oil / Gas / Water (w/H ₂ S content)
Erosion/Corrosion allowance	3.2 mm
Horizontal acceleration	0.4g
Vertical acceleration	0.2g
Wind speed	173 km/h

Other conditions / comments:

1. The design approval only applies to model SEP-C and is limited to the pressure vessel design, as defined by the approved drawing(s) listed herewith;
2. External loads other than those assumed and included in the approved drawing(s) and the calculation packages are specifically excluded from the design verification;
3. This design verification does not cover the skid frame, associated piping, P & ID drawing, pedestal and conditions for temporary phases such as transportation and lifting lugs, paints and coatings.
4. Welds used for H₂S containment fluids are to be tested for hardness in accordance with ISO 15156 / NACE MR 0175;
5. Load carrying bolt connections are to be pre-tensioned in accordance with a recognized procedure;
6. A certificate or verification statement of the final product to be issued by the local DNV GL surveyor following his verification of compliance of used materials, and fabrication/testing procedures as per related requirements in DNVGL-OS-E101 and referenced codes.

Type Approval documentation

Tests carried out

Marking of product

Periodical assessment