DNV·GL

Certificate No:
TAP00001UK

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Gauge Glass Level Indicator

with type designation(s)
Seetru Seeflex Liquid Level Gauge (G31)

Issued to
SEETRU LTD.
BRISTOL, United Kingdom

is found to comply with
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems

Application :

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

Temperature range:	**-35°C to +80°C**
Max. working press.:	**38.7 psi (2.67 bar)**
Design:	**See Certificate**

Issued at **Høvik** on **2019-07-01**
This Certificate is valid until **2023-12-31**.
DNV GL local station: **Manchester**

Approval Engineer: **Mehdi Rowshan**

for **DNV GL**

Zeinab Sharifi
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.

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Product description

Seeflex G31 type flat glass level gage indicators of maximum 9 meter length with self closing valves fitted at bottom connection operated by push button or hydraulic actuator with alternative fittings at top connection.

Materials:

Back channel:	Stainless steel
Front bezel:	Black coated, rust protected mild steel. or stainless steel.
Reflex glass:	Hardened borosilicate
Seal for glass:	Nitrile
Valve bodies:	Brass or stainless steel
Valve body seals:	Elastomer

Application/Limitation

Mentioned gauges may be used in tanks containing flammable fluids while fitted with a self-closing valve at each end, and protected against mechanical damage.

When gauges are used for tanks containing inflammable liquids the glasses are to be of heat resistant material. When self closing valves are not provided at top end, the top end shall reach to a level above maximum fluid level in the tank.

In passenger ships, no oil level indicating devices requiring penetrations below the top of the tank are permitted.

Stainless steel grade 316 is not seawater resistant and products covered by this certificate shall not be used in seawater applications.

Product certificate is not required for the DNVGL classed vessels.

Production Test:
Hydraulic/Leakage test to 1.5 times the maximum allowable pressure to be performed under the supervision by a Surveyor of DNV GL for each level indicator.

Type Approval documentation

Marking of product

For traceability to this type approval the products are to be marked with:

- Manufacturer's name
- Type designation
- Test pressure

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.