DNV·GL

Certificate No:
TAP00001VC

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Float Gauge Level Indicator

with type designation(s)
PLG-65MS

Issued to
Panasia Co., Ltd.
Busan, Republic of Korea

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 vessels classed by DNV GL.
Design: Magnetic float type

Issued at **Høvik** on **2019-06-21**
This Certificate is valid until **2022-12-31**.
DNV GL local station: **Gimhae Station**

Approval Engineer: **Sinisa Sedlan**

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
Magnetic float type level gauge.

Model name: PLG-65 (MS: Side Mounting / MT: top Mounting)
Design Pressure: 2.94 bar (3 kg/cm^2)
Design Temperature: 100°C
Material of Chamber: seamless tube SA-312 TP304
Material of flat end: SA-204 304
Inside radius of shell: 35.2 mm

Application/Limitation

The design review has only covered the strength of pressurized parts. The functionality of the component has not been considered in the approval.

These level gauges can be installed as a means of level indication for tanks containing flammable fluids. They are to be fitted with a self-closing valve at each end, and are to be protected against mechanical damage. (Ref. DNV GL Ship rules Pt.4 Ch.6 Sec.4 [11.6.2])

These level gauges are not permitted to be used on fuel oil tanks on passenger ships, where a penetration is required below the top of the tank. (Ref. DNV GL Ship rules Pt.4 Ch.6 Sec.4 [11.6.4])

Type Approval documentation

Production testing
Each level gauge shall be subjected to a hydrostatic pressure test at 1.5 times the allowable pressure at room temperature. The test pressure shall be applied and maintained for at least 30 minutes to permit visual examination of all surfaces and joints. The component shall exhibit no sign of plastic yielding or leakage.

Certification
No product certificate is required.

Marking of product
For traceability to this Type Approval the products are to be marked with:
- Manufacturer's name or trade mark
- Type designation
- Maximum working pressure
- The year of manufacture

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.