



Marine & Offshore

Certificate number: 52946/A0 BV

File number: ACM 141/2537/01

Product code: 3715H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

GOLDEN MOUNTAIN ENTERPRISE CO.,LTD.

KAOHSIUNG - TAIWAN

for the type of product

LEVEL GAUGE, GLASS TYPE

Glass Level gauges R/T/B Series

Requirements:

- Bureau Veritas Rules for the Classification of Steel Ships
- Bureau Veritas Rules for the Classification of Offshore Units
- Bureau Veritas Rules for the Classification of Naval Ships
- Bureau Veritas Rules for the Classification of Yachts

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 13 Jul 2023

For Bureau Veritas Marine & Offshore,

At BV TAIPEI, on 13 Jul 2018,

R.c. YIN



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=5mpq3ieeb5>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Glass Level gauges :

- R Series (Reflex Type)
- T Series (Transparent Type)
- B Series (Large Chamber Type)

1.1 Technical data

Series	Glass section (mm)*	Maximum Working pressure (MPa)*	Working Temperature (°C)**
R / T / B	165 to 400	7	-10 / +280

* multiple sections of sight glass could be added to allow the measure range longer than 400 mm

** depending on the model. According to manufacturer's catalogue.

1.2 Materials and components

Series	Body	Sight glass	Gauge valve	Flange
Glass level gauge	SS304 / SS316 / Carbon Steel	Borosilicate glass	SS304 / SS316 / Carbon Steel	SS304

When other choices of materials are used per manufacturer's recommendations, the BV agreement is to be obtained

2. DOCUMENTS AND DRAWINGS

- Manufacturer's catalogue Rev. 0 dated 2015
- Drawing N° RT-1-0 dated 06/04/2012.

No departure from the above documents shall be made without the prior consent of the Society. The manufacturer must inform the Society of any modification or changes to these documents and drawings.

3. TEST REPORTS

N/A.

4. APPLICATION / LIMITATION

- 4.1 Level gauges are to be used for tanks intended for water, fuel oil and other flammable oils according to requirements Pt C, Ch 1, Sec 10 [2.9.2] of Bureau Veritas Rules.
- 4.2 In passenger ships, the level gauges are not admitted for fuel oil and other flammable oils where penetration below tank top would be necessary and their failure or overfilling of the tanks is not to permit release of fuel into the space.
- 4.3 In cargo ships, their failure or overfilling of the tanks is not to permit release of fuel into the space. The flat glasses are to be fitted with self-closing valves at their lower end as well as their upper end if the tank connection is below the maximum liquid level.
- 4.4 The fitting of the level gauges is to be in accordance with the manufacturer's instructions as well as the Rules and Regulations applicable to the ship.
- 4.5 The level gauges are to be installed and tested to the Surveyor's satisfaction.
- 4.6 Each level gauge is to be supplied with its manuals for installation, use and maintenance.

5. PRODUCTION SURVEY REQUIREMENTS

- 5.1 The products are to be supplied by **GOLDEN MOUNTAIN ENTERPRISE CO.,LTD.** in compliance with the type described in this certificate.
- 5.2 This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 **GOLDEN MOUNTAIN ENTERPRISE CO.,LTD.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

For information, **GOLDEN MOUNTAIN ENTERPRISE CO.,LTD.** has declared to Bureau Veritas the following production site:

GOLDEN MOUNTAIN ENTERPRISE CO.,LTD.
No.9 Lane 133, Xing-Hua St.,
Chien-Chen Dist.,
806 KAOHSIUNG
TAIWAN

6. MARKING OF PRODUCT

Each level gauge is to be at least marked with:

- Manufacturer name or logo
- Type designation
- Operational data

7. OTHERS

It is **GOLDEN MOUNTAIN ENTERPRISE CO.,LTD.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

***** END OF CERTIFICATE *****