



Marine &amp; Offshore

Certificate number: 09818/E0 BV

File number: AP 3287

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  
**KUKDONG LEVEL CO.**  
BUSAN - KOREA (REPUBLIC OF)

for the type of product  
**LEVEL GAUGE - GLASS TYPE**  
KD-FLG and KD-RLG series.

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

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: 20 May 2026**

For Bureau Veritas Marine & Offshore,  
At BV PUSAN, on 20 May 2021,  
Chang-Uk HONG



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](http://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.veristarpm.com/veristamb/jsp/viewPublicPdfTypepec.jsp?id=5ouybaabh4>  
BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION

Flat type Glass Level Gauge KD-FLG and Reflex type Level Gauge KD-RLG

#### 1.1 Technical Data depending on type

Type	KD-FLG	KD-RLG
Working Pressure (bar)	4.9	19
Max Working Temperature (°C)	150	250
End connections	Flange	Flange

#### 1.2 Material specification

Part	KD-FLG	KD-RLG
Body	SUS304	S25C
Valve	BC	S25C
Glass	Borosilicate	Borosilicate

*When other choices of materials are used per manufacturers recommendations, the BV agreement is to be obtained.*

### 2. DOCUMENTS AND DRAWINGS

- Drawing N° KD-LG-035 dated 28/12/2020
- Drawing N° KD-LG-034 dated 28/12/2020
- Operation Maintenance Manual N° KD-05-06 for the type KD-RLG Rev.0 dated 05/10/2020
- Operation Maintenance Manual N° KD-05-04 for the type KD-FLG Rev.0 dated 06/10/2020

*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

Not required.

### 4. APPLICATION / LIMITATION

- 4.1 - May be used as tank level indicator for fresh water, fuel oil, lubricating oil and other media which have a flash point above 60 °C 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 - 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.
- 4.4 - The level gauges are to be installed and tested to the Surveyor's satisfaction.
- 4.5 - Each level gauge is to be supplied with its manual for installation, use and maintenance.

### 5. PRODUCTION SURVEY REQUIREMENTS

- 5.1 - The products are to be supplied by **KUKDONG LEVEL CO.** 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 - **KUKDONG LEVEL CO** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.
- 5.4 - For information, **KUKDONG LEVEL CO** has declared to Bureau Veritas the following production site:

**KUKDONG LEVEL CO**  
**18, 354BEONAN-GIL**  
**DADAE-RO**  
**Saha-gu**  
**604-040 BUSAN**  
**KOREA (REPUBLIC OF)**

## **6. MARKING OF PRODUCT**

The product shall be marked with at least:

- Manufacturer's name or logo
- Type designation
- Operational data

## **7. OTHERS**

It is **KUKDONG LEVEL CO'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.

*This certificate supersedes the Type Approval Certificate No. 09818/D0 BV issued by the Society.*

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