



Marine & Offshore

Certificate number: 38836/B0 BV

File number: ACM 141/2530/01

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
KLINGER ITALY S.r.l.
 Mazzo di Rho - MI - ITALY

for the type of product
LEVEL GAUGE - GLASS TYPE
 MR25 & MT100

Requirements:

- BUREAU VERITAS Rules for the Classification of Steel Ships
- BUREAU VERITAS Rules for the Classification of Offshore Units

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: 24 Oct 2024

For Bureau Veritas Marine & Offshore,

At BV VENEZIA, on 24 Oct 2019,

Sandro BRUSEGAN



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.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=jy6znf78u0>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

Level Gauge MR25 & MT100 Series

1.1 Technical data

Series	Nominal Length (mm)	Working Pressure (bar)	Testing Pressure (bar)	Connection
MR 25	128 to 3903	25	38	16 mm
MT 100	128 to 3903	40	60	16 mm

1.2 Material specification

Body	ASTM A105
Glass	Borosilicate Type A
Sleeve	Graphite PSM 150
Trim	AISI 316

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

2. DOCUMENTS AND DRAWINGS

- Drawing N°TA/MR25/A Rev.2 dated 15/04/2019
- Drawing N°TA/MR25/B Rev.2 dated 15/04/2019
- Drawing N°TA/MR25/C Rev.1 dated 15/04/2019
- Instructions for installation and operation of reflex Level Gauges type - MR 25-
- Drawing N°TA/MT100/A Rev.2 dated 15/04/2019
- Drawing N°TA/MT100/B Rev.2 dated 15/04/2019
- Drawing N°TA/MT100/C Rev.2 dated 15/04/2019
- Drawing N°TA/MT100/D Rev.1 dated 15/04/2019
- Drawing N°TA/MT100/E Rev.1 dated 15/04/2019
- Drawing N°TA/MT100/F Rev.1 dated 15/04/2019

- Instructions for installation and operation of reflex Level Gauges type - MR T100-

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

- Hydraulic pressure tests carried out at the manufacturer workshop and reviewed by a BV Surveyor
- Test report N° 2014/613 dated 03/06/2014

4. APPLICATION / LIMITATION

4.1 May be used as tank level indication 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 The level gauges are not admitted for oil fuel and other flammable oils on board passenger ships having to comply with SOLAS Convention, as amended unless otherwise permitted on a case by case ship basis.

4.3 Approval valid for ships intended to be granted with the following additional class notations: AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.

4.4 The fitting of the devices is to be in accordance with the manufacturer's instructions as well as the Rules and Regulations applicable to the ship.

4.5 The devices are to be installed and tested to the Surveyor's satisfaction.

4.6 Each device 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 **KLINGER ITALY S.r.l.** 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 **KLINGER ITALY S.r.l.** 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, **KLINGER ITALY S.r.l.** has declared to Bureau Veritas the following production site:

KLINGER ITALY S.r.l.: Via De Gasperi 88, I-20017 Mazzo di Rho - MI, ITALY

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 **KLINGER ITALY S.r.l.**'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. 38836/A1 BV issued by the Society.

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