



Marine & Offshore

Certificate number: 19305/C0 BV

File number: ACM 141/2507/01

Product code: 3718H

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

KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.
ISTANBUL - TURKEY

for the type of product

LEVEL GAUGE, MAGNETIC TYPE
MLG Magnetic Level Gauge

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: 05 Apr 2023

For Bureau Veritas Marine & Offshore,

At BV ISTANBUL, on 05 Apr 2018,

Gurcan Yilmaz



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=tq9zsjvhng>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION

MLG Magnetic Level Gauge

1.1 Design

A vertical chamber (by-pass tube Ø 38 x 1,5 mm), a float (Ø 30,5 x 165 mm), two side connections (Ø 19 x 1,5 x 70 mm), an indicating scale (max. length 5800 mm)

1.2 Rating

Design pressure [bar]	10
Design temperature [°C]	150
Flange	DN 20 PN 10 (optional DN 15, DN 25)

1.3 Materials

Part	Material
Chamber, side connections	AISI 304 - 316 - 316L Stainless Steel
Float	AISI 316L Stainless Steel
Flange	ST 37-2 Carbon steel / AISI 304 - 316 Stainless Steel
Indicating scale	300 Oxit/PA 66

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

2. DOCUMENTS AND DRAWINGS

- MLG Level Gauge drawing N° 501.900.000.590 rev.1 dated 15/10/2015
- MLG Type Magnetic level gauges technical data sheet submitted in 2015
- Welding procedure N° PR 11 rev. 00 dated 01/02/2007

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

- Vibration test procedure N° TTAL.BV.07 rev. 0 dated 08/01/2007
- Hydraulic pressure test report and Inclination test report dated 25/04/2007

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, unless otherwise permitted on case by case ship basis.

4.3 In cargo ships, their failure or overfilling of the tanks is not to permit release of fuel into the space.

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

4.5 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.

5. PRODUCTION SURVEY REQUIREMENTS

5.1 The products are to be supplied by **KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.** 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 **KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.** 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, **KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.** has declared to Bureau Veritas the following production site:

- KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.: TEPEOREN ISTANBUL, TUZLA ORGANIZE SAN. BOLGESI, 7. CADDE NO:4, TUZLA, ISTANBUL, TURKEY

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 **KAYSE ENDUSTRIYEL MAMULLER SAN.TIC.A.S.**'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. 19305/B1 BV issued by the Society.

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