



Marine & Offshore

Certificate number: 05486/F0 BV

File number: ACM 141/2303/002

Product code: 3714H

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

WEKA AG

Bäretswil - SWITZERLAND

for the type of product

LEVEL GAUGES / INDICATORS

Magnetic Level Indicators

Type: VLI (Visual Level Indicator)

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: 19 Oct 2022

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 19 Oct 2017,

Dirk Hoepfner



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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Visual Level Indicators of VLI series are indicators based on a permanent bar magnet system.

1.1 - Variants of indicators:

| Series | Max. Operating pressure | Designation | Data sheet |
|----------------|-------------------------|---------------|-----------------------------------------------|
| Economy Line 6 | 6bar | 34000E-A / -K | DS_Economy_2010_11_25_E dated 25.11.2010 |
| | | 23614E-A / -K | |
| Smart Line 50 | 50bar | 34000-A / -B | DS_VLI_Smart_2009_10_04_E dated 04.10.2009 |
| | | 34000-K / -O | |
| | | 34110-K / -O | |
| Standard 6 | 6bar | 23614-A / -B | DS_VLI_Standard_2009_10_04_E dated 04.10.09 |
| | | 23614-K / -O | |
| Standard 28 | 28bar | 34300-A / -B | DS_VLI_Standard_2011_01_28_E dated 28.01.2011 |
| | | 34300-K / -O | |
| Standard 50 | 50bar | 32755-A / -B | DS_VLI_Standard_2009_10_04_E dated 04.10.09 |
| | | 32755-K / -O | |
| Top of Tank 16 | 6bar | 23013 / 6 | 14.02 dated 04/2000 |
| | | 25270 / 6 | 11.03 dated 04/2000 |

- Standard materials (Wetted parts): AISI 304/316/316L or equivalent.

1.2 - Accessories: Magnetic switches: 26625, 33130, 31130, 33160, 31160, 29432, 32298, 27059, 29436, 32299, 27069.

2. DOCUMENTS AND DRAWINGS:

- Data sheets: according to table above.
- Documents: filed in ACM 141/2303/002.

3. TEST REPORTS:

- According to reports filed in ACM 141/2303/002.

4. APPLICATION / LIMITATION:

- 4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships.
- 4.2 - May not be used for flammable oil tanks in passenger ships where penetration below tank top would be necessary.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The above mentioned indicators are to be supplied by **WEKA AG** 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 - **WEKA AG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

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- 5.4 - Each indicator is to be hydraulic pressure tested to 1.5 times the maximum operating pressure.

6. MARKING OF PRODUCT:

- Maker's name or trademark.
- Date of manufacture and/or serial number.
- Equipment type number or model identification.

7. OTHERS:

- 7.1 - It is in the responsibility of **WEKA AG** 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.
- 7.2 - This certificate supersedes the Type Approval Certificate N° 05486/E0 BV issued on 09 Aug 2012 by the Society.

*** END OF CERTIFICATE ***