



MARINE DIVISION

Certificate number: 05842/E0 BV

File number: ACM 133/2303/002

Product code: 15211

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

Willibrord Lösing Filtertechnik e.K.
Hattingen - GERMANY

for the type of product

FUEL, LUBRICATING AND HYDRAULIC OIL FILTERS

FUEL OIL FILTERS Type: SWK-2000/5M to 130M and SWK-2000/5UM to 130UM

Requirements:

BUREAU VERITAS Rules for the Classification of Steel Ships

This certificate is issued to attest that BUREAU VERITAS 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 Sep 2018

For BUREAU VERITAS,

At BV HAMBURG, on 20 Sep 2013,

Adama Diene



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. 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 Division 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 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 SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Fuel oil Filters, type: SWK-2000/5M, SWK-2000/10M, SWK-2000/18M, SWK-2000/40M, SWK-2000/130M, SWK-2000/5UM, SWK-2000/10UM, SWK-2000/18UM, SWK-2000/40UM, SWK-2000/130UM

Service Pressure: 5 bar

Casing material: GK-ALSi 12

2. DOCUMENTS AND DRAWINGS :

According to the following drawings:

Filter Type	Drawing No.
SWK-2000/5M	062988
SWK-2000/10M	062989
SWK-2000/18M	062990
SWK-2000/40M	062994
SWK-2000/130M	062435
SWK-2000/5UM	062408
SWK-2000/10UM	062412
SWK-2000/18UM	062416
SWK-2000/40UM	062418
SWK-2000/130UM	062436

3. TEST REPORTS :

Not applicable.

4. APPLICATION / LIMITATION :

- 4.1 Fuel oil Filters may be used in suction pipes between fuel oil tanks and booster pumps only.
- 4.2 The filters may not be used on fuel oil systems located inside machinery spaces.
- 4.3 On board installation and maintenance requirements have to be in accordance with the BUREAU VERITAS Rules requirements and the Manufacturer's recommendations.
- 4.4 For fire prevention, the applicable requirements of BUREAU VERITAS Rules Pt C, Ch I, Sec 10 [5.10.3] and [5.10.4].
- 4.5 The filters may be fitted on ships granted with an automation notation provided that all the requirements stated in our Rules are complied with. The documents required by the Rules for this purpose will have to be submitted and reviewed for each application.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 The Filters are to be supplied by the manufacturer in compliance with the type and the requirements described in this certificate.
- 5.2 This type of product is within the category IBV of BUREAU VERITAS Rule Note NR320.
- 5.3 BUREAU VERITAS product certificate is required.
- 5.4 Arrangements shall be made for a Society's Surveyor to attend the tests and examinations at manufacturer's works or to perform the relevant audits when an alternative survey scheme, BV Mode I, has been arranged, in order to issue the BUREAU VERITAS certificate for the units to be fitted on board ships classed with BUREAU VERITAS.

- 5.5 **Willibrord Lösing Filtertechnik e.K.** has declared to BUREAU VERITAS that the products detailed in this certificate are manufactured at the production site stated on the front page of this certificate.
- 5.6 Materials Certificate as per BUREAU VERITAS Rules Part C, Ch 1, Sec 10 [Table 38].
- 5.7 Each Filter is to be hydraulic pressure tested to 1.5 times the maximum design pressure under witnessing of a Society's Surveyor.

6. MARKING OF PRODUCT :

Each Filter should be marked with:

- Manufacturer's name or trademark
- Type designation
- Maximum working pressure
- Test pressure
- BUREAU VERITAS' marks

7. OTHERS :

- 7.1 This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **Willibrord Lösing Filtertechnik e.K., Hattingen / GERMANY**, will accept full responsibility for informing shipbuilders, ship owners or their subcontractors of the proper methods of use and general maintenance of the units and the conditions of this approval.
- 7.2 This Certificate supersedes Type Approval Certificate N°05842/D0 BV issued on 23 Sep 2008 by the Society.

*** END OF CERTIFICATE ***