



DESIGN APPROVAL CERTIFICATE

Certificate No. : ATN40585-PF001 **Initial Approval** : 8th November, 2019
Product : Automatic Screen Filters
Manufacturer : Filtersafe Ltd.
Haella Street, Tefen Industrial Zone 2495900, P.O.Box 23, ISRAEL

Product Description : Model : E Type(Compact, Single and Multi)
" See Appendix 1 "

Approval Condition : " See Appendix 1 "

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt 5, Ch 6, Sec 1 of the Rules for the Classification of the Steel Ships.

This Certificate is valid until 7th November, 2024

Reissued at Busan, Korea on 3rd February, 2020



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No (ME20004295059) and certificate No.(ATN40585-PF001).



KOREAN REGISTER OF SHIPPING

*General Manager of
Marine & Ocean Equipment Team*

- Note :**
1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
 2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
 4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Appendix 1

Product Description and/or Approval Condition

Certificate No : ATN40585-PF001

Date of Issue : 3rd February, 2020

A. Product Description

1. Product Specification

- 1) Model : E Type(Compact, Single and Multi)
 - Compact: BS101/151/201E
 - Single : BS300/400/500E
 - Multi : BS603/804/1004/1204/1206/1406E
- 2) Applied Fluid : Water
- 3) Intended Service : Ballast water use in marine and offshore
- 4) Design Pressure : 10 bar(Compact), 8 bar(Single), 7 bar(Multi)
- 5) Design Temperature : 50 °C
- 6) Mounting : Vertical and horizontal
- 7) Cleaning mechanisms : Standard, Turbo (T) and Super-Turbo (ST)
- 8) Material
 - Body, Pipe : SA-106-B or equivalent grades
 - Flange, Plate, etc : S235JR, S275JR or equivalent grades

2. Approved Drawings and documents

- 1) E Type List of Documents No. DOC 00-117 Rev.A dated 30 October, 2019

3. Test Reports, etc.

Nil

B. Approval Condition

1. Application & Limitation

- 1) This approval applies to bare filters. This approval does not cover the functional performance of the filters.
- 2) The filters covered in this certificate are approved with Standard, Turbo (T) or Super-Turbo (ST) cleaning mechanism.
- 3) Installation on board is to be in accordance with KR Rules and the manufacturer's instructions.

2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is not required.

3. Marking

The products are to be permanently marked with the following items:

- Manufacturer's name or trademark
- Type designation and serial number
- Date of manufacture
- Design pressure and temperature

4. Others

* Place of Manufacture

- 1) FILTERSAFE LTD
Haella Street, Tefen Industrial Zone 2495900, P.O.Box 23, ISRAEL
- 2) FILTERSAFE HK LTD
DD362 Lot30 Tsing Chau Tsai Shipyard, Lantau Island, HONG KONG, CHINA
- 3) Ergil Grup Ins.Mak.Iml.Itl.Ihr.San.Tic.Ltd.Sti
Mersin - Tarsus Organize Sanayi Bolgesi
(MTO SB), 13. Cadde, No: 7 Huzurkent Mersin, Istanbul, TURKEY
- 4) OneZ Pressure Vessel Manufacturing Co.,Ltd
No.3-2, Huaye Road, Shunjiang, Beijiao Town, Shunde District, Foshan, Guangdong
Province, 528312, CHINA

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