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Certificate No: LR2539772TA Issue Date: 03/04/2024 Expiry Date: 02/04/2029

## **Type Approval Certificate**

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer Willibrord Loesing Filtertechnik e.K.

**Address** Am Walzwerk 2, Hattingen, 45527, Germany

Place of Production Willibrord Lösing Filterproduktion GmbH

Am Walzwerk 2, Hattingen, 45527, Germany

**Type** Water separator and light diesel fuel oil filter

**Description** Fuel pre-filter and water separator for diesel fuels.

Filtering and water separation be achieved by a cartridge and a centrifugal system. Housing from aluminium alloy or cast iron with metal bowl with water

level indication contacts. Flow capacity between 5 and 130 l/min.

Trade Name Separ SWK

**Application** Filters for light diesel fuel oil installed in the suction side between fuel oil tank

and delivery pump on ships classed or intended for classification with Lloyd's Register. For installation and maintenance the producer's instructions and

recommendations to be adhered.

**Specified Standard** Lloyd's Register Rules and Regulations for Classifications of Ships, 2024

**Other Conditions** Materials used in piping systems are subjected to restrictions as per LR Rules

and Regulations for the Classification of Ships Pt. 5, Ch. 13 and LR Rules and

Torsten Hacker

Engineering - Machinery - Lead Specialist to

Lloyd's Register EMEA

A member of the Lloyd's Register group

T. Have

71 Fenchurch Street, London, EC3M 4BS, United Kingdom



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Regulations for the Classification of Special Service Craft Pt. 15, Ch. 1.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** LR2001904TA

The Design Appraisal Document TSO/24-022572 (prev. HPC/HMD 1355-99, Issue No. 5) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Issue Date: 08 August 2024
Expiry Date: 07 August 2029
Reference: TSO/24-022572-M-00

### LLOYD'S REGISTER TYPE APPROVAL - DESIGN APPRAISAL DOCUMENT

Issued by: HAMBURG TECHNICAL SUPPORT OFFICE (TSO/24-022572)
Issued to: W. Lösing Filtertechnik e.K.
For: Water Separator and Light Diesel Oil Filter

This Design Appraisal Document supersedes and cancels document number HPC/HMD 1355-99, Isue No.5, dated 20.03.2020

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 04 (September 2020) and this Design Appraisal Document forms part of the Certificate.

#### **TEST REPORTS**

Production Quality Assessment	02.12.2024
pressure loss curves, water separation capability and solid particle separation capability at SWK 2000/130 by RWTüV	08.04.1994
pressure loss curves, water separation capability, solid particle separa-tion	04.03.1994
capability and back flushing at filter SWK 2000/40 M by RWTüV	
Vibration- and shock test by WTD Kiel	11.01.1994
Wet fire endurance test by MPA NRW	02.11.1993
Pressure loss curves, water separation capability, solid particle separation	20.11.1992
capability and back flushing at filter SWK 2000/5, 2000/5-50, 2000/10 and	
2000/18 by RWTüV	
	pressure loss curves, water separation capability and solid particle separation capability at SWK 2000/130 by RWTüV pressure loss curves, water separation capability, solid particle separa-tion capability and back flushing at filter SWK 2000/40 M by RWTüV Vibration- and shock test by WTD Kiel Wet fire endurance test by MPA NRW Pressure loss curves, water separation capability, solid particle separation capability and back flushing at filter SWK 2000/5, 2000/5-50, 2000/10 and

#### **APPROVAL DOCUMENTATION**

Form2502TA	Application Checklist	30.09.2024
LR2001904TA	Previous LR TA Certificate	20.03.2020
Z30691-01-KI-EN-	SWK-130/U/M/W22/VAC/P30/C01	09.05.2025
R02.02		
Z30691-01-KI-DE-	SWK-130/U/M/W22/VAC/P30/C01	09.05.2025
R02.02		



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Torsten Hacker
Lead Specialist
Engineering Systems
Global Technical Support Office
Lloyd's Register EMEA
T +49 (0)40 349 700 10 138
E torsten.hacker@lr.org

#### **Supplementary Type Approval Terms and Conditions**

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.