Simplex
Multisafe M – aft seal

General description

- 4-ring sterntube seal system for additional protection of sea water against oil pollution
- 2 sealing rings facing against sterntube oil
- Certified by all major classification societies
- Known to the market since 1993

Advantages

**Design**
Market approved seals → reliable equipment covering the whole range of shaft diameters

Pressure controlled lubrication → greater operational reliability at higher drafts

Customised and tailor-made → meets new building and retrofit demands

**Installation**
Delivered fully assembled and tested → immediate and easy installation by the shipyard

**Operation**

- Double security against oil loss escape to sea water due to the additional spare ring #3R → high security against pollution of sea water by oil
- Constant pressure setting by aft seal tank → reliable operating system

**Services**

- Designed for in-situ overhaul as per certified and approved Simplex repair standards
- Worldwide service network and availability of spares
Function

- A stationary housing guides the Simplex sealing rings (2 facing water/2 facing sterntube oil). The rotating liner is fixed to the propeller.

- Oil chamber (I) is initially filled with lube oil ensuring optimal lubrication and protection from dirt.

- Oil chambers (II + III) are filled with lube oil and pressure controlled through the respective aft seal tank (B). This independent oil supply ensures best lubrication.

- Oil chambers (II + III) are connected to the aft seal tank (B) for equal pressure setting. Thus spare sealing ring (#3R) runs without load under normal operating conditions. If the sealing ring (#3) becomes damaged spare ring (#3R) can be activated by closing the shut off valve in the oil supply and vent line.

- Condition monitoring of aft seal via oil level indication of aft seal tank (B).

- Additional pipe to seal chamber (II + III) for venting and lube oil refreshment.

Configuration

<table>
<thead>
<tr>
<th>Split design</th>
<th>Material housing</th>
<th>Liner coating</th>
<th>Upgrades</th>
<th>Distance ring</th>
<th>Bio oil durable</th>
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Available/required: • Available on request

Customised solutions:
- Ice-going-vessels
- High drafts

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