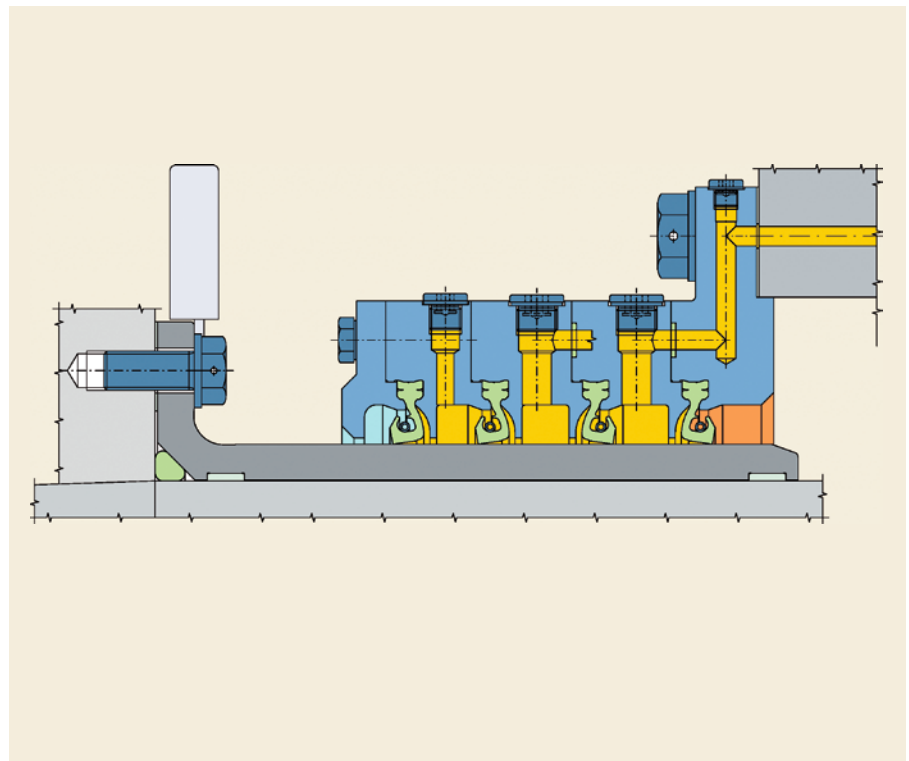


# Simplex Multisafe M – aft seal

## 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



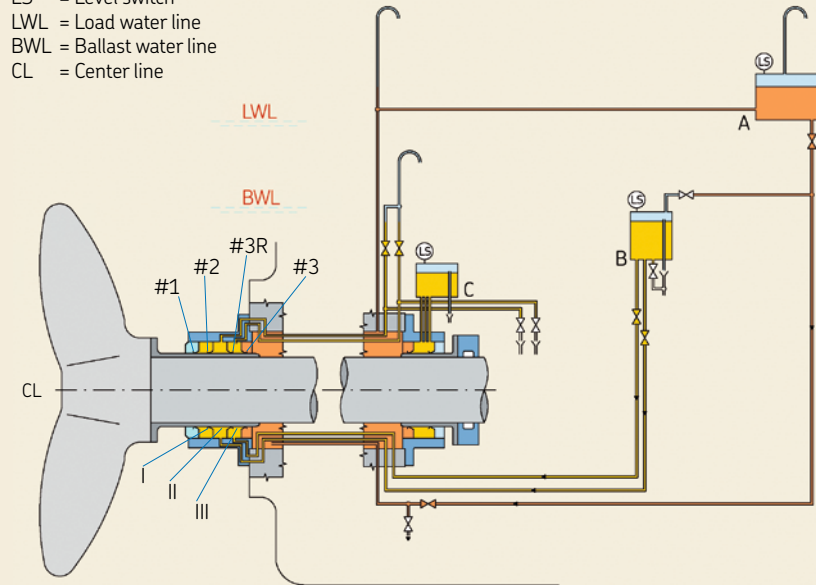
The Original

# 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.

Functional principle of sterntube lubrications

- A = Header tank with level alarm
- B = Tank of aft seal with level alarm
- C = Tank for fwd seal with level alarm
- LS = Level switch
- LWL = Load water line
- BWL = Ballast water line
- CL = Center line



# Configuration

Split design		Material housing		Liner coating		Upgrades			Distance ring	Bio oil durable
Liner	Housing	Cast Iron	Bronze	Ceramic	Tungsten carbide	Crease in Chamber 1	Active circulation	Net protection	Split design	e.g. for VGP 2013
○	○	●	○	○	○	○	○	○	○	○

● Available/required ○ Available on request

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### Customised solutions:

- Ice-going-vessels
- High drafts

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