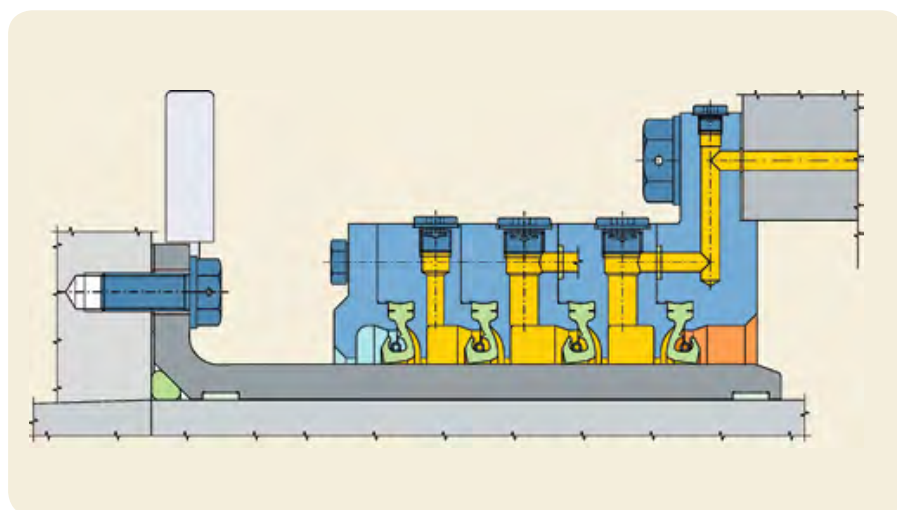


Simplex Multisafe BR – aft seal

General description

- 4-ring sterntube seal system for additional protection of the sterntube against water ingress
- 3 sealing rings facing sea water
- Certified by all major classification societies
- Known to the market since 2005



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 water ingress into sterntube due to the additional spare ring #2R → cost savings through increased lifetime of sterntube bearings

Constant pressure setting by the aft seal tank → reliable operating system

Easy handling → reduced risk of operating failure

Services

Designed for in-situ overhaul as per certified and approved Simplex repair standards

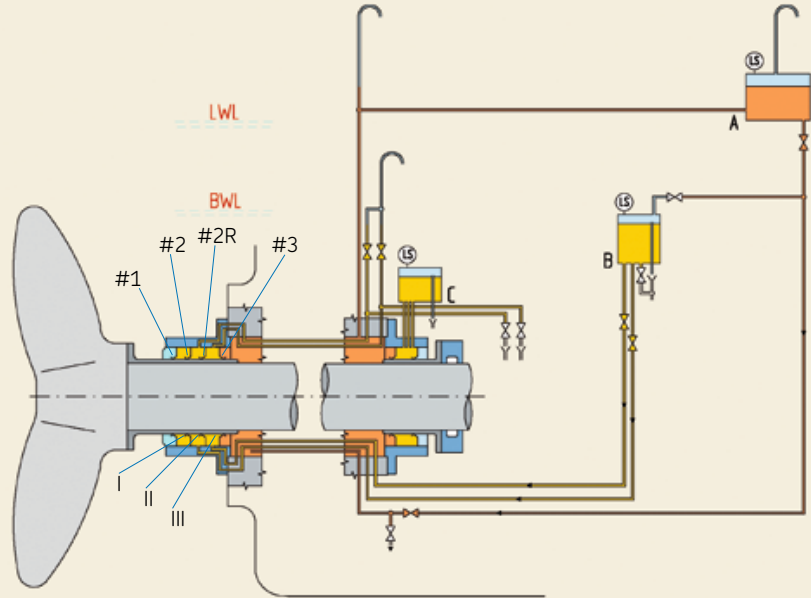
Worldwide service network and availability of spares

Function

- A stationary housing guides the Simplex sealing rings (3 facing water/1 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 (#2R) runs without load under normal operating conditions. If the sealing ring (#2) becomes damaged spare ring (#2R) 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 the aft seal tank (B).
- Two additional pipes for venting and lube oil refreshment.

Functional principle

- 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



Applications

Split design		Material housing		Liner coating		Upgrades			Distance ring	Bio oil durable
Liner	Housing	Cast iron	Bronze	Ceramic	Tungsten carbide	Grease in chamber 1	Active circulation	Net protection	Split design	e.g. for VGP 2013
<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Available/required Available on request

Customised solutions

- Dredgers
- Ice-going vessels
- High drafts

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