Simplex Advanced – aft seal

General description

- 3-ring sterntube seal for standard applications
- Since 1992 thousandfold market approved
- Certified by all major classification societies
- For all shaft diameters with additional pressure control of oil chamber II

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**
Easy handling → reduced risk of operating failure
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/1 facing sterntube oil). The rotating liner is fixed to the propeller.

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

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

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

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

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**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>
</tr>
</thead>
<tbody>
<tr>
<td>Liner</td>
<td>Housing</td>
<td>Cast iron</td>
<td>Bronze</td>
<td>Ceramic</td>
<td>Tungsten carbide</td>
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<td>O</td>
<td>O</td>
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<td>O</td>
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<td>O</td>
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</tbody>
</table>

- Available
- Available on request
- Not available

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