Simplex
Basic – fwd seal

General description

• 2–ring fwd sterntube seal for standard applications
• Combinable with each aft seal
• Since 1992 thousandfold market approved
• Certified by all major classification societies

Advantages

Design
Market approved seals → reliable equipment covering the whole range of shaft diameters
Optimised design → no additional equipment aside from fwd oil tank
Reliable lubrication by oil circulation → increased lifetime of sealing rings and liner without external components
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 fwd 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 sterntube oil). The rotating liner is fixed to a split clamp ring.

- Sealing rings facing sterntube oil.

- Oil chamber is filled with lube oil and pressure controlled through the respective fwd seal tank (C).

- Oil circulation in the chamber is ensured by circulator (Z) and fwd seal tank (C).

#### Functional principle of sterntube lubrication

- **C** = Tank for fwd seal with level alarm
- **Z** = Circulation

### Configuration

<table>
<thead>
<tr>
<th>Split design</th>
<th>Material housing</th>
<th>Liner coating</th>
<th>Bio oil durable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liner Housing</td>
<td>Cast iron</td>
<td>Ceramic</td>
<td>e.g. for VGP 2013</td>
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<tr>
<td></td>
<td>Bronze</td>
<td>Tungsten carbide</td>
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- **Available/required**
- **Available request**

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