Simplan - fwd seal

General description

• Mechanical face seal for water-lubricated sterntubes

• Silicon carbide sealing ring material: corrosion- and wear-resistant

• Equipped with an additional inflatable static seal (Pneumostop)

• No wear to the shaft

• State-of-the-art environmentally friendly sealing solution

• Certified by all major classification societies

Advantages

Design

• Sealing rings made of silicon carbide (SIC) → harder than sand
  → extremely wear-resistant

• Pneumostop from neoprene → excellent mechanical properties

Installation

• Delivered fully assembled and tested → easy installation by the shipyard

Operation

• No wear to the shaft → practically maintenance-free

• Easy handling → reduced risk of operating failure

• Constant sealing pressure by pressure body → absorbs radial and axial shaft movements

• Proven long product life

Service

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

• Worldwide service network and availability of spares

Application:

Aluminium design

• Extruded aluminium housing rings → high tensile strength and homogeneous material, no cavities

• High resistance against seawater corrosion

• Approx. 40% lighter than the bronze version
**Function**

- A stationary ring (1) and a rotating sealing ring (2) form the axial seal.
- The rotating sealing ring is fixed to a rubber pressure body (3).
- This pressure body is held on the shaft by a clamp ring (4) and is pre-loaded to ensure the necessary contact pressure between the stationary ring (1) and the rotating sealing ring (2).
- The Pneumostop is an inflatable tube ring (5) and operates as a static seal only.
- This Pneumostop can be inflated by an air supply line (V1 open, V2 shut).
- A supply line provides the sterntube bushes (6) with a constant supply of fresh water.
- A small amount of fresh water is needed for flushing the permanently vented seal chamber.
- During operation, the Pneumostop is always vented (V1 shut, V2 open).

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