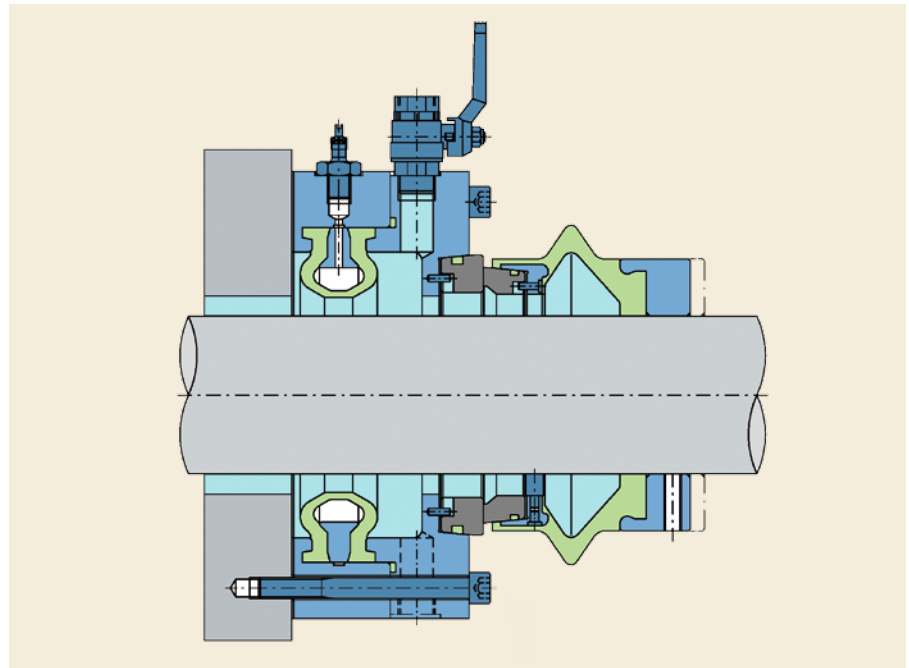


Simplan - fwd seal

General description

- Mechanical face seal for water-lubricated stern tubes
- 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

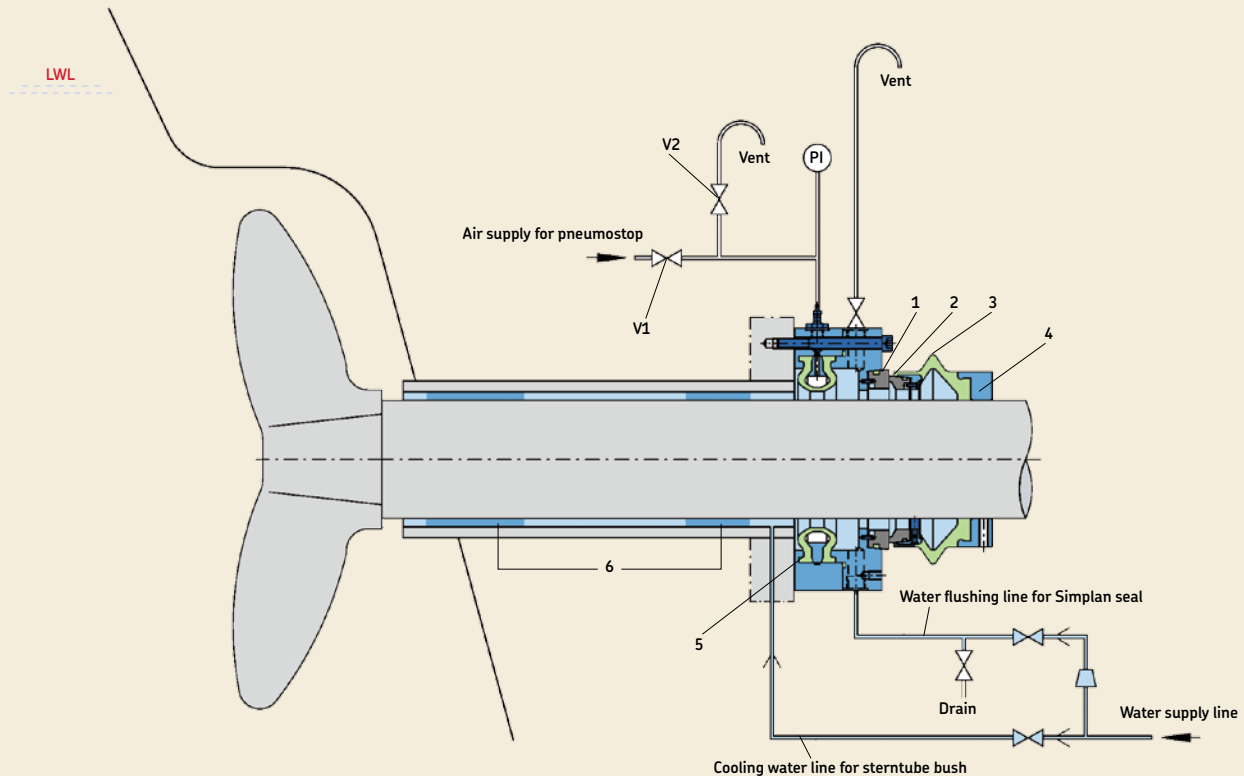
- High resistance against seawater corrosion
- Approx. 40% lighter than the bronze version



The Original

Functional principle

LWL = Load water line
PI = Pressure indicator



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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