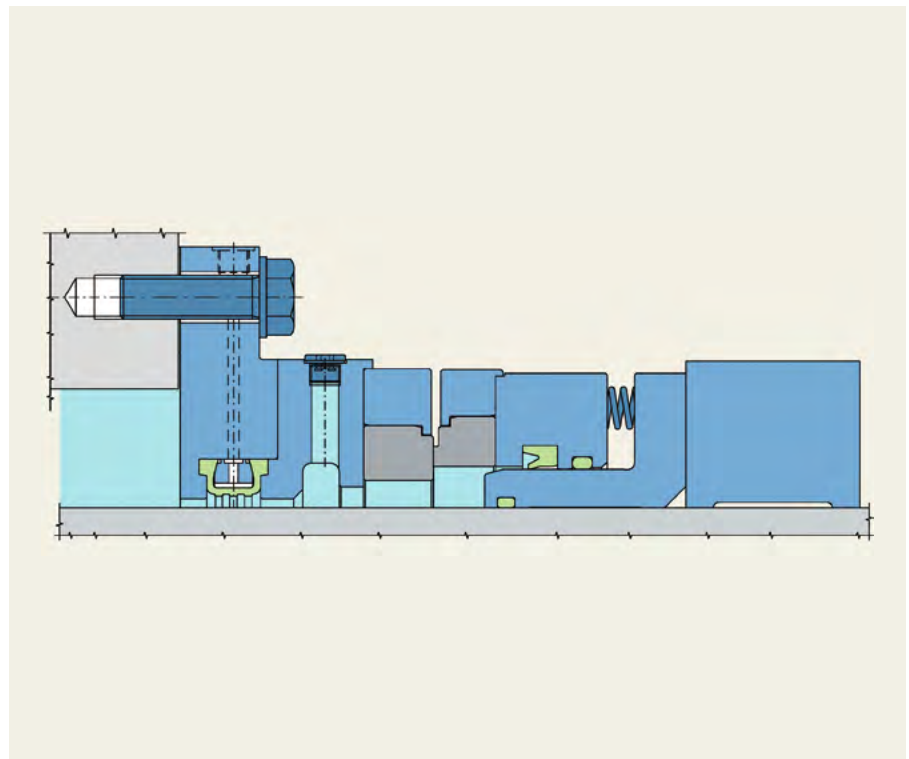


Carboplan Surface – water-lubricated fwd seal

General description

- Mechanical face-type 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
- Housing material is bronze



Advantages

Design

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

Pneumostop made of NBR with excellent mechanical properties → reliable operation at very low water temperatures, exact recovery when vented for no shaft contact

Installation

Delivered fully assembled and tested → easy installation by the shipyard

Operation

No wear to the shaft → practically maintenance-free

Easy handling due to uncomplicated setup → reduced risk of operating failure

Constant sealing pressure by pressure springs → absorbs axial shaft movements

Services

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

Worldwide service network and availability of spares

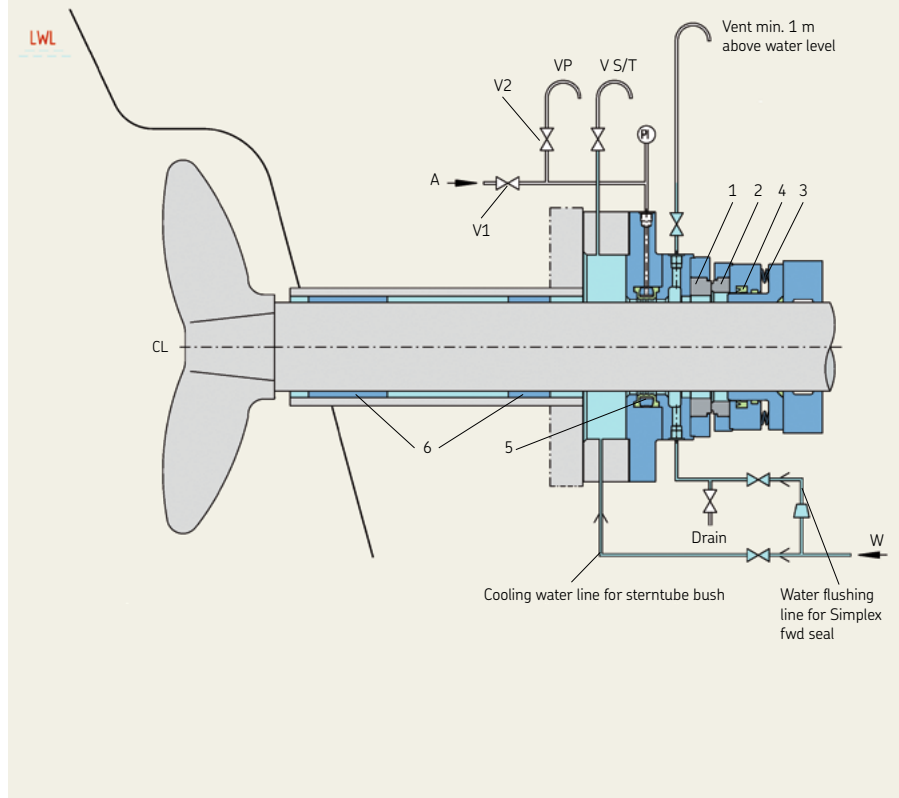


The Original

Function

- A stationary ring (1) and a rotating sealing ring (2) are pressed against each other by pressure springs (3) and form the axial seal.
- The static part of the seal unit is bolted against the sterntube flange and supplied pre-assembled.
- The rotating part of the seal unit consists of liner, spring support ring with slide ring, secondary sealing ring (4) and clamp ring. The rotating part is also supplied pre-assembled.
- The seal is equipped with a pneumatically actuated standstill seal (Pneumostop) (5) to assist during inspection (no docking of the vessel required) and as an emergency seal with the shaft at standstill.
- The Pneumostop can be inflated by an air supply line (V1 open, V2 shut).
- During seal operation, the Pneumostop is always vented (V1 shut, V2 open).
- A water supply line provides the sterntube bushes (6) with a constant supply of water.
- A small amount of fresh water is needed for flushing the permanently vented seal chamber.

PI = Pressure indicator
 VP = Vent for Pneumostop
 V S/T = Vent for sterntube
 CL = Shaft centre line
 A = Air supply for Pneumostop
 W = Water supply line



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