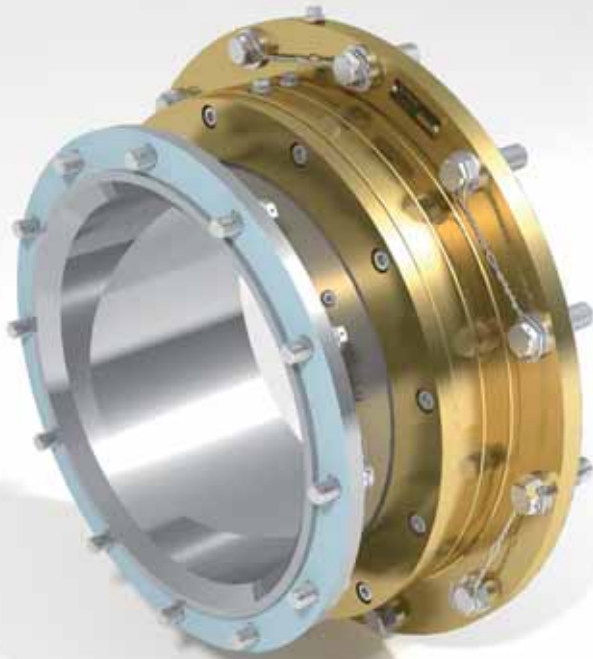


SUPREME® Thruster Seal (TS)



Custom Design for Thrusters

The SUPREME Thruster Seal is especially developed for thruster applications.

SUPREME Thruster Seal (TS)

The design of this seal is tailored to fit in small spaces. Every SUPREME TS is custom made to its specific application. SUPREME TS seals can, amongst others, be found in Propulsion, Retractable, Tunnel and Bow Thrusters. The TS(3) design is equipped with three lip seals. The chamber between the second and third lip seal is filled with oil. The barrier which is formed then effectively keeps the water outside and the oil inside the thruster gearbox. The SUPREME TS is also available in the heavy duty design TS4. The TS4 contains 4 lip seals.

Fluctuating Depths, Zero Emission, Environment Friendly

The SUPREME TS and SUPREME Ventus system combined deliver an excellent thruster seal solution for applications at fluctuating depths. This system can amongst other applications be used on Dynamic Positioning systems. A SUPREME thruster seal with SUPREME Ventus option allows thrusters to operate in more than 18 meters of depth while guaranteeing minimized wear and zero-emission.

SUPREME Special Design

We know every application is different. The SUPREME seal is designed to fit specific customer needs. At the customer's request, IHC Lagersmit designs and develops innovative tailor-made solutions. Even very special hybrid versions of LIQUIDYNE and SUPREME seals are designed. Examples of these applications are available on request. An extensive set of options is available to meet varying customer demands. The most commonly used options are FPM lip seals and the application of a hard metal layer on the liner. This combination ensures absolute minimum wear, which minimizes maintenance. The benefit? Low cost of ownership.

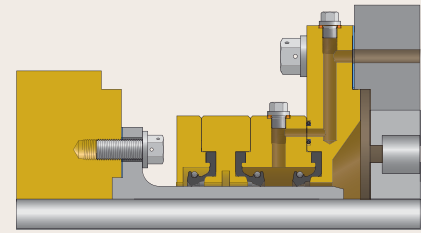
Options

- Installation commissioning
- Split housing parts
- Liner: split version
- Liner: hard metal layer
- Liner: ceramic layer
- Lip seals: FPM
- Hastelloy lip seal springs
- Dirt barrier
- Dirt barrier with protective cover
- Cathodic protection
- Distance ring
- Grease lubrication
- Oil lubrication

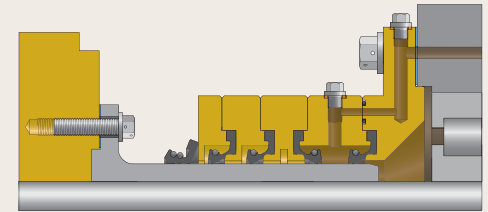
SUPREME Thruster Seal (TS)

Applications

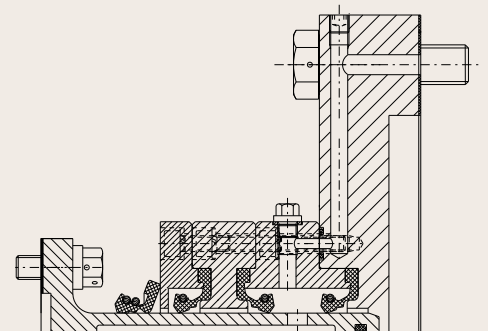
SUPREME Thruster Seal applications include propulsion thrusters, retractable thrusters, tunnel thrusters, bow thrusters and dynamic positioning systems.



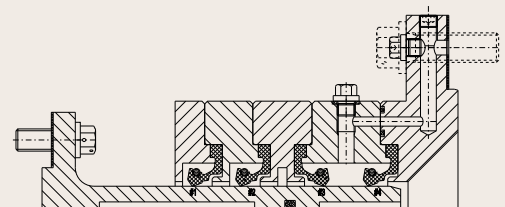
Cross-section SUPREME TS3



Cross-section SUPREME TS4



SUPREME TS3 CPP (typical)



SUPREME TS4 FPP (typical)

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