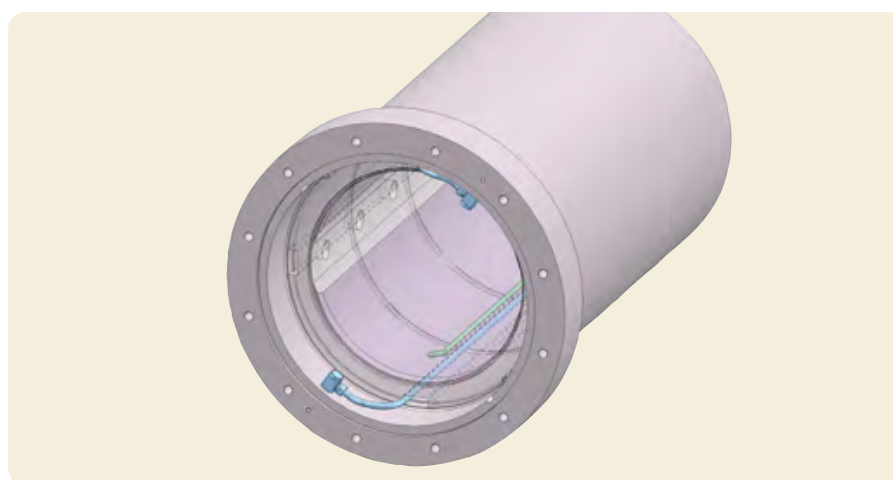


Simplex Bush in bush system

General description

- Bush in bush version with sterntube bush in assembly bush
 - Assembly bush: inside finish-machined and outside rough-machined with seal flange ring
 - Inlay bush: inside and outside finish-machined for easy exchange
- True customized turnkey solution ready for installation
 - for all vessel sizes
 - for all vessel types
- Certified by all major classification societies



Advantages

Design

Customised and tailor-made to meet new building demands

Designed with all necessary pipes for seals, temperature sensor and hydrostatic connection

Computer-calculated hydrodynamic operational reliability to determine various technical parameters:

- Shaft diameter
- Maximum and minimum rpm
- Radial load in t or kN
- Maximum ambient and sea water temperatures
- Oil viscosity (if oil type is known)

A significant amount of work already done → less preparation work necessary for design office and shipyard

Complete system designed for Simplex seals → maximum reliability

Installation

Plug and play solution delivered fully assembled and tested → immediate and easy installation by the shipyard

Ultrasonically tested before shipment. Test certificate can be supplied on request

Operation

Stress-free installation → reduced transmission of resonance and vibration

Flexible Pt 100 temperature sensor (optional) for an in-situ replacement during opera-

tion of the vessel → no second sensor necessary as mandated by most classes

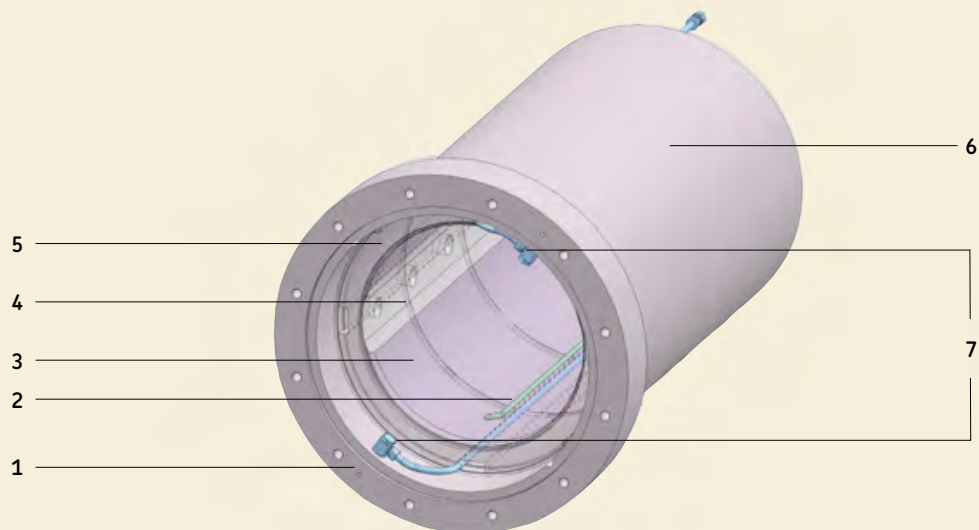
Services

Easy maintenance:

- Replaceable bushes of reliable Simplex-type
- Temperature sensors can be changed without shaft withdrawal

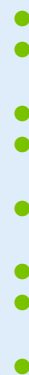
Designed for in-situ overhaul as per certified and approved Simplex repair standards

Worldwide service network and availability of spares

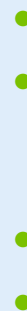


- 1 **Adapter rings (fwd and aft)** – For a precise seal connection
 - 2 **Flexible temperature sensors (Pt 100)** – Measurement of temperature at the white metal for remote monitoring
 - 3 **Lead or tin-based white metal lining** – Mainly for merchant shipping
 - 4 **Oil grooves straight-aligned** – Constant and reliable lube oil supply
Specific helical oil grooves – For twin-screw vessels
 - 5 **Material bush design EN-GJL-200 (GG-20) cast iron** – Mainly for merchant shipping
Material bush design EN-GJS-400-15 (GGG-40) spheroidal cast iron – For higher stresses
 - 6 **Final fixing of the complete bush in bush system with epoxy resin**
 - 7 **Supply lines – Air and oil supply for the aft seal, stern tube drain and lubrication**
-
- **Self-lubrication** – Lube oil supply by natural circulation
 - **Hydrostatic lubrication** – Including lubrication unit with temperature and pressure sensors – Minimized wear during manoeuvring with reversed direction of shaft rotation
 - **Direct forced lubrication** – Additional constant supply of fresh lubricant

Standard



Optional



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PUB 43/P2 14867/1 EN · September 2015

