

Stern tube oil circulation



Stern tube oil treatment:

As part of our continuous development and constant optimization of propeller and shaft systems – a new stern tube pump and filter solution has been launched.

Benefits at a glance

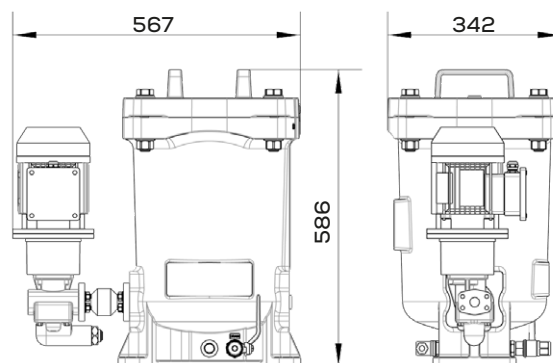
- Reduced operating and maintenance costs
- Increased reliability and durability of oil system components
- Maximized long-term condition and lifetime of the stern tube oil
- Efficient separation of oil ageing products, solid particles and water
- Minimal space requirement due to compact design
- Very easy maintenance
- Filter elements with high contamination retention capacity
- Environmentally friendly element disposal through incineration.

Stern tube oil circulation

with a new pump and filter unit solution

The pump and filter unit solution is our optional supply for all Alpha CP Propeller and FP Propeller stern tube systems – running with mineral oils or biodegradable oils.

Technical data	Pump and filter unit
Operating pressure (bar)	max. 20
Suitable oil types	Mineral and biodegradable oils
Fluid temperature range (°C)	-30 to 80
Material of filter housing	Aluminum
Filter housing volume (ltr)	~ 27
Weight, dry (kg)	~ 58
Degree of filtration (µm)	30
Flow rate (ltr per minute)	3
Power consumption (kW)	(3 x 400 V, 50/60 Hz) 0.37



Secure lifetime of oil, seals and bearings

Proven principle

The offline filter unit solution is recognized worldwide as highly efficient and delivering measurable customer benefits: Lower operating and maintenance costs, increased productivity and maximum life of system components and oil.

Efficient and compact

The filter unit is a stationary bypass flow filter – optimized for the separation of oil ageing products, water and solid particles from the lubrication oils. Thanks to its compact construction, the filter unit is also ideal for installations where space is limited.

Multi-level separation

The filter elements used are specially developed for the combined separation of miniscule size particulate contamination, water and oil-ageing products.

Oil filtration

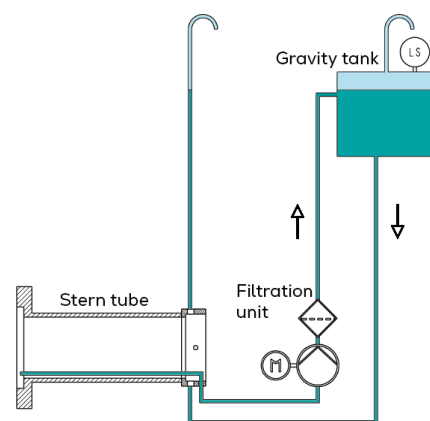
The stern tube lube oil is extracted from the stern tube between the aft bearing and the aft seal – and pumped through the filter for removal of solid particles and water. The cleaned oil is returned to the gravity tank securing the static pressure in the stern tube system.

Installation

The handling and installation of pump and filter units – including the pipe fitting – are made easy, since our Alpha stern tubes of today are prepared with the necessary internal piping and external connections.

Monitoring

As an optional solution our supply can include a 'Water in Oil Sensor' with output to the monitoring and alarm system.



Oil extraction, cleaning and return principle

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