Whether you want a standard stern seal retrofit or a water-lubricated or an air-regulated system, we can provide a complete assembly engineered especially for your installation.

No standard solutions
We don’t push a single solution. We first check if a new installation is necessary or if we can combine new parts with existing components.

We consider your demands, budget and installation and we will provide you with the best options for your ship. We advice you, but it’s up to you to choose.

AEGIR-Marine RETROFIT offers:
• a standard seal assembly
• a secure seal assembly
• a PRIME® Blue seal assembly
• a PRIMAIR® seal assembly also available as a split execution

No standard consumables combined with specific housing parts ensure perfect installation and maximum service ability. It goes without saying that we only use the best materials and that class approval is included.

New demands may require new seal solutions.
Being a truly independent player, AEGIR-Marine helps you to find the right solution for your specific request.

PRIMAIR is a very advanced sealing system. ‘Air Seal’ technology physically separates the stern tube oil from the sea via an air space and has a drain line back to the engine room to drain leaked fluids and prevent cross contamination in event of a seal ring failure.

Variable air pressure
The PRIMAIR system works based on ‘Constant Air Flow/Variable Pressure’ technology. This system is engineered to discharge air through the seal box. The air pressure varies while the air flow is stable. The air pressure will vary to keep in sync with the outside seawater pressure (SW pressure will vary not only with vessel draft but also with wave conditions, i.e. swells).

Reducing wear on seal ring and liner
The variable pressure method maintains a perfect pressure balance inside the seal box. This perfect pressure balance prevents flexing of the seal ring thereby reducing stress on the seal ring material. It also reduces wear on the seal ring and chrome steel liner because the pressure on the seal rings is lower than within a conventional system. This combination greatly improves seal reliability.

PRIMAIR meets the VGP law requirements even when using conventional lubricants.

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AEGIR’S PRIME SEALS

Over the years AEGIR-Marine has developed many different types of seal assemblies. Careful engineering by our R&D department has led to spare parts as well as complete seal assemblies suitable for renowned makes like Wärtsilä, B+V Industries and Kemel. By applying modern technology and consistently choosing the best materials our seal assemblies meet the highest degree of quality and reliability.

AEGIR-Marine Prime Standard
The PRIME AFT seal consists of three sliding connections between PRIME seal rings and a revolving liner (see the illustration.).

AEGIR-Marine Prime Standard Secure
In addition to the three AFT seals of the PRIME Standard, an extra seal is installed: Seal #3S. This seal points towards the stern tube and works as a backup for seal 3. When seal ring 3 is leaking, seal #3S will take over its job.

Offering more options
1. On the AFT split type seal all housings and the liner are devisible. This means no need for shaft withdrawal when seals and/or housing parts have to be replaced.
2. When grooves appear on the surface of the liner we offer the installation of an extra distance ring to extend the liner’s lifetime.
3. To improve the lifetime of stern tube liners, we offer tungsten coating. This coating can be applied on new and used liners and will be done within required tolerances. Since tungsten coating doesn’t wear over the years, this option is very cost efficient.

PRIME SEALS ARE COMPATIBLE WITH A WIDE RANGE OF EAL’S

THE WATER LUBRICATED PRIME BLUE

AEGIR’s PRIME Blue assembly is a reliable, durable seal system that is proven to be pollution free. It offers many benefits for vessels with water-lubricated bearings. This type of seal is the easiest seal on the market for installation and operation. Maintenance, including changing the seal, can be completed by your own engineers while the vessel is in the water. Seals come standard in a partial split version, but are also available as fully split on request.

A straightforward design
The design of the PRIME Blue type seal is very straightforward. It consists of a rubber lip seal rotating with the shaft. The lip seal rotates against a stationary mating ring made of chrome steel. The seal casing is made of cast bronze. An inflatable seal for emergency and maintenance purposes is installed in the housing. Seal assemblies are supplied with one spare seal, which is installed around the shaft ready for installation. This can be installed by your own engineers.

Competitively priced and certified
Spare parts are price competitive compared to other water-lubricated seals. All PRIME Blue spares are available on short notice. Class approval by most major classification societies is available.

NOTE
Prime blue seals can be serviced without docking. For retrofit purposes, the PRIME Blue can be supplied with adaptor flanges or in non-standard versions.