Controlled Bearing Environment
Thordon’s Water Quality Package ensures an adequate supply of clean water is consistently being delivered to both the forward seal and the stern tube bearings. Lubrication of the bearing is assured and a long predictable bearing wear life is achieved. A controlled supply of clean water allows Thordon to offer a lifetime bearing wearlife guarantee.

Easily Machined and Fitted
Thordon COMPAC machines cleanly and produces no airborne machining debris. COMPAC is much lighter than white metal bearings and can be fitted quickly and easily by freezing in liquid nitrogen or dry ice.

BEARING WEARLIFE
Thordon Bearings Inc. is geared to respond quickly to supply high performance seal and bearing solutions. Our products arrive quickly, fit right and last!

Extensive Distribution Network
Thordon Bearings has an extensive distribution network of more than 70 dealerships in 150 countries to supply and service our global customers. New updated manuals are now available worldwide in the language and version of your choice. Please contact us for further information.

Application Engineering
Thordon engineers work closely with customers to provide innovative bearing and shaft seal designs and systems.

While TG-100 seals are designed as a standard product that will virtually bolt into place, global installation technical support is available for those cases where specific application engineering is required.

Manufacturing Quality
Thordon Bearings Inc. is a family-owned company with manufacturing and new product development facilities in Burlington, Ontario, Canada. Production facilities in Poland are capable of producing a wide variety of designs and sizes. We are ISO 9001 certified and are committed to meeting your high expectations.

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High Performance Bearings and Seals; Industry-Leading Service
Thordon Bearings is an industry leader in the design, manufacture, supply and installation of high performance, pollution-free, shaft seal and bearing systems.

Cost Savings
The COMPAC seawater lubricated propeller shaft bearing system eliminates stern tube oil or oil-based EALs as seawater is used as the lubricant. There is no aft seal, no storage of oil, no sampling of oil, no disposal of oil, and no risk of seawater ingress contaminating the oil. Compared to synthetic EALs that are 500-1000% more expensive than mineral oil, seawater is free and recommended by the U.S.A. Environmental Protection Agency to meet Vessel General Permit requirements. Emergency aft seal repairs are no longer required, as there is no aft seal.

Compliant Operation
All class societies with the exception for NK and KR have modified rules for seawater lubricated propeller shaft systems, allowing the shafts to remain in place if monitoring conditions are met and making the COMPAC system comparable to oil lubricated propeller shaft bearings. Thordens COMPAC water lubricated propeller systems demonstrate that there are no environmental risks resulting from stern tube leakage and meets both U.S. and Polar Code regulations guaranteeing zero risk of pollution.

COMPAC Ship Owner Benefits
• Reduce operational costs
• Eliminate all-machined seals
• Eliminate emergency seal repairs
• Fewer components
• Zero environmental impact
• Meet U.S. EPA requirements
• Over 2000 ship references

COMPAC SEAWATER LUBRICATED PROPELLER SHAFT BEARING SYSTEM
Thordon COMPAC Water Lubricated Propeller Shaft Bearing Clearance (Avg. Clearance of Port & Starboard)
It's pretty clear that the end game will be no discharges allowed at all, and we have bought into a process that is externally audited by Lloyd's Register.

– Al Davies, Director of Operations, Algoma Central Corp., Canada

Spills always come at times when you do not need them, and they must be resolved as soon as possible. Prior to the switch to these seawater lubricated bearings, Flinter, like others, had been fined for oil pollution, especially in U.S. ports.

– Martijn Berends, Newbuildings Manager, Flinter Management BV, Netherlands

One anti-pollution measure that has proved its worth is Carnival's choice of Thordon COMPAC water-lubricated propeller shaft bearings which, in my opinion, are one of the best investments any operator can make. As well as eliminating pollution risks, they have proven to be so robust, it's likely they will outlast many of the vessels.

– Chris Joly, Principal Manager, Marine Engineering, Carnival Corp. (U.K.)

We chose Thordon COMPAC for this vessel because these bearings are environmentally friendly, water lubricated and come with no risk of pollution.

– Captain Simon Merritt, Technical Manager, Carisbrooke Shipping Ltd. (U.K.)

Having water-lubricated stern tube bearings not only improves a company's environmental credentials but also eliminates the costs associated with maintaining an oil system and associated equipment.

– John McMillan, Technical Director, Beltship Management Ltd. (Monaco)

The Trillium Class design includes many industry leading efficiency and pollution reduction features. Eliminating any possible source of pollution was given a high priority when designing these vessels.

– Kevin Begley, Director - Project Management, CSL International (U.S.A.)

We chose Thordon COMPAC for all our newbuildings because of the long experience of these seawater lubricated bearings which present no risk of oil pollution. With the elimination of aft seal maintenance and no oil required, we are expecting considerable cost savings over the life of the vessels.

– Richard Goodwin, Vice President, Engineering, Viking Ocean Cruises (U.K.)

EPA recommends that all newbuild vessel operators endeavour to use seawater-based systems for their stern tube lubrication to eliminate the discharge of oil from these interfaces to the aquatic environment.

– Section 2.2.9; 2013 Vessel General Permit (VGP) effective Dec. 19, 2013 (U.S.A.)