SIMPLAN Shaft Seals
for Water Lubricated Sterntubes
Simplex-Turbulo-Systems

Blohm + Voss Industries
At Simplex-Turbulo-Systems, we have developed the ultimate seal for water-lubricated stern tubes. The utilisation of unique, state-of-the-art material combinations and the expertise gained through over 60 years of experience has resulted in the SIMPLAN shaft seal, available for shaft diameters from 50 - 420 mm.

Our extensive testing procedures and dedication to the highest quality control standards have ensured the ultimate quality product on the market at the best possible price. SIMPLAN is the ideal alternative to stuffing boxes for your newbuilding and conversion projects.

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Many operators attach great importance to environmentally friendly, water-lubricated stern tube systems not only for use in inland waters and coastal regions, but also on the high seas. We have developed the SIMPLAN stern tube seal to satisfy all such applications. With it, we have put an end to the constant shaft-wear and damage caused by conventional standard systems. No more time-consuming and expensive shaft work is necessary, and therefore less time in dock. These cost savings, and the reduction in loss of earnings mean that the investment pays for itself.

Our FEM designed neoprene seal body with optimised geometry ensures a constant pressure at the sealing face in the event of axial shaft movements (along with large radial tolerances). This is in contrast to all other types of seal on the market, which show very large changes in sealing pressure, resulting in opening of the seal and/or excessive wear at the sealing faces.

With our SIMPLAN seals we offer a unique combination of SiC “hard against hard” sealing faces. We have developed materials for the seal which are unaffected by even the hardest sands or sediments. The durability of these sealing rings exceeds the operation lifetime of conventional sealing rings by far.

SIMPLAN seals can be exactly fitted to any shaft diameter between 50 and 420 mm. They are supplied with our proven “Pneumostop” stand-still seal. This feature allows inspection of the seal and shaft without taking the ship out of the water.

SIMPLAN seals meet the highest standards set by the “Central Commission for Rhine Shipping” (European Waterways). They are certified by Germanischer Lloyd (GL), the American Bureau of Shipping (ABS), by Lloyd’s Register (LR) and by BUREAU VERITAS (BV).

The Advantages:
- Constant sealing pressure
- Unique materials technology
- Practically maintenance-free
- Less dock-time – lower costs
- Main wear parts available in split type

Table Legend
A – Shaft Diameter in mm
B – Total length of stationary seal incl. “Pneumostop”
C – Total length of constant pressure seal body
D – Outside diameter of SIMPLAN seal
E – Bolt circle diameter
F – Number and size of bolts
G – Weight incl. “Pneumostop”

Note: allow additional 40 mm construction length for installation and maintenance.

Mobile service
To keep your fleet operating smoothly at all times, a highly efficient after-sales service is available for our SIMPLAN shaft seals and all other products of the Simplex-Turbulo range. You can rely on our global repair service and our worldwide network of authorized service stations.

In case of emergency, please call Tel.: +49 172 437 47 78 or mail to service@bv-industries.com (both available 24 hours every day)
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* incl. 1 mm packing  ** when sealing rings have contact

Free space for installation and inspection

8 Preloaded

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The information contained in this brochure is of a general nature. Technical details may differ from those described here due to the requirements of specific applications, and may change without notice due to further technical developments of the products. Descriptions of the performance of the products are only binding when contractually agreed. Picture: Azimut | Benetti S.p.A., Alessio Bernardi.