

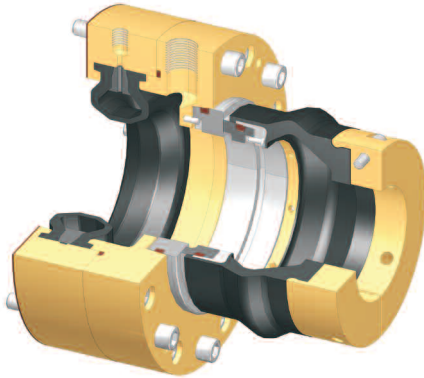
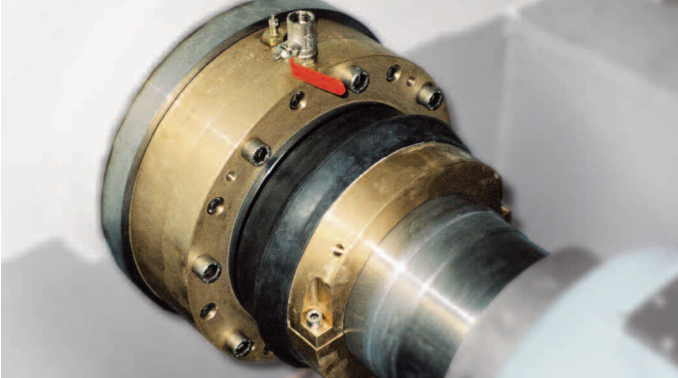
# SIMPLAN Shaft Seals for Water Lubricated Sterntubes Simplex-Turbulo-Systems



**Blohm + Voss Industries**

**Blohm+Voss**

# SIMPLAN Shaft Seals for Water Lubricated Sterntubes



## SIMPLAN Aluminium

On request the SIMPLAN seal is also available with an aluminium housing. Our sales team will be pleased to advise you should you be interested in this reduced weight solution. Please contact us.

At Simplex-Turbulo-Systems, we have developed the ultimate seal for water-lubricated sterntubes. 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.

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).

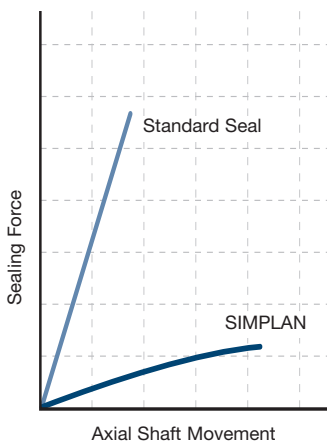
## The Advantages:

- 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
- G** – Number and size of bolts Weight incl. "Pneumostop"

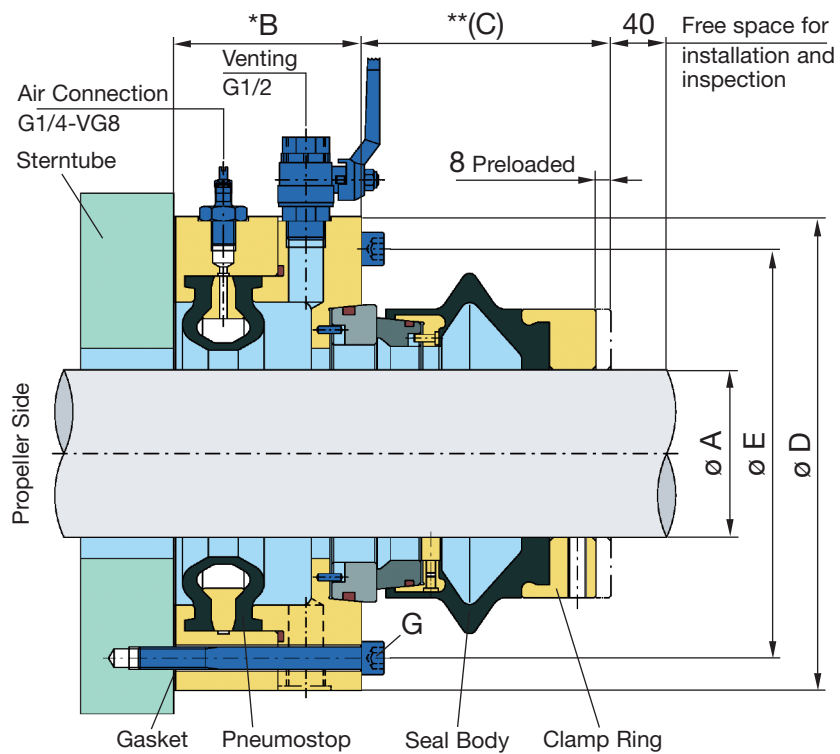
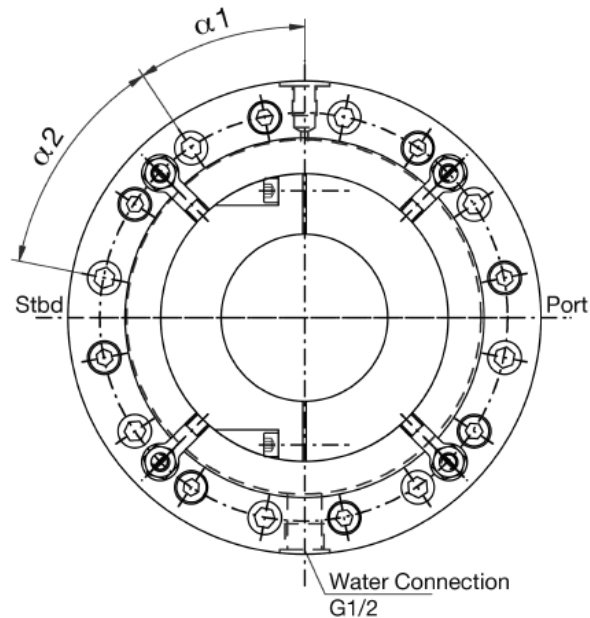
Note: allow additional 40 mm construction length for installation and maintenance



## 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](mailto:service@bv-industries.com) (both available 24 hours every day)**



Size	A	*B	** (C)	$\phi D$	$\phi E$	G	$\alpha 1$	$\alpha 2$	Weight kg
50	50 - 59	101	~114	225	190	6 x M12	45°	60°	26.5
60	60 - 69	101	~114	225	190	6 x M12	45°	60°	26.5
70	70 - 79	101	~114	235	200	6 x M12	45°	60°	28.5
80	80 - 89	101	~114	245	210	6 x M12	45°	60°	30.0
90	90 - 104	101	~134	255	220	8 x M12	33.75°	45°	31.5
105	105 - 119	101	~134	270	235	8 x M12	33.75°	45°	35.0
120	120 - 134	101	~134	285	250	8 x M12	33.75°	45°	38.0
135	135 - 149	101	~134	300	265	8 x M12	33.75°	45°	40.5
150	150 - 164	101	~134	315	280	8 x M12	33.75°	45°	44.5
165	165 - 179	101	~134	330	295	8 x M12	33.75°	45°	49.0
180	180 - 194	101	~134	345	310	8 x M12	33.75°	45°	53.5
195	195 - 209	101	~146	370	335	8 x M16	33.75°	45°	58.5
210	210 - 224	101	~146	385	350	8 x M16	33.75°	45°	63.0
225	225 - 239	101	~146	400	365	8 x M16	33.75°	45°	66.5
240	240 - 259	101	~167	430	390	12 x M16	15°	30°	86.0
260	260 - 279	101	~167	450	410	12 x M16	15°	30°	91.0
280	280 - 299	101	~167	470	430	12 x M16	15°	30°	96.0
300	300 - 319	101	~167	490	450	12 x M16	15°	30°	101.0
320	320 - 339	101	~167	510	470	12 x M16	15°	30°	106.0

from 340

on application

\* incl. 1 mm packing    \*\* when sealing rings have contact

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Picture: Azimut | Benetti S.p.A., Alessio Bernardi.

