



VORTEX^{PLUS}

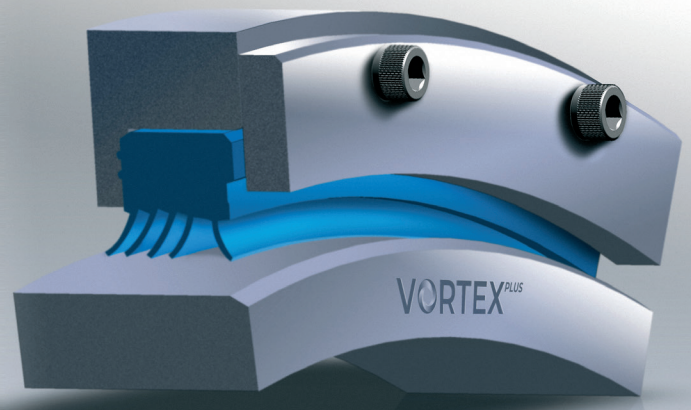
THE OIL- AND GREASE-PUMPING SEAL

Originally conceived specifically for oil-lubricated bearings, the next-generation VORTEX^{PLUS} has been adapted for grease-lubrication also. It features pressure-activated seal lips which can accommodate pressures up to 1 bar. With the lowest seal lip seal force in the industry, it boasts lower torque, while service life is extended because it operates at a lower lip temperature. It also seals flushing fluids during the bearing production process. Every VORTEX^{PLUS} seal is designed for a unique bearing application, either for an OEM application or to retrofit an existing bearing.

Proven in over 10,000 applications worldwide, VORTEX has set a benchmark for sealing efficiency in a wind turbine bearing. Drawing on the same design principles, new VORTEX^{PLUS} now presents a unique solution for both oil- and grease-lubricated bearings



System Seals' GlobalOne program partners with its customers to drive down the overall cost of product ownership and optimise supply-chain logistics worldwide.



VORTEX^{PLUS}

THE OIL- AND GREASE-PUMPING SEAL

BENEFITS

Design:

- Specifically designed for oil-lubricated bearings
- Pressure-activated seal lips can seal pressure up to 1 bar
- Polyurethane material for maximum seal life

Performance:

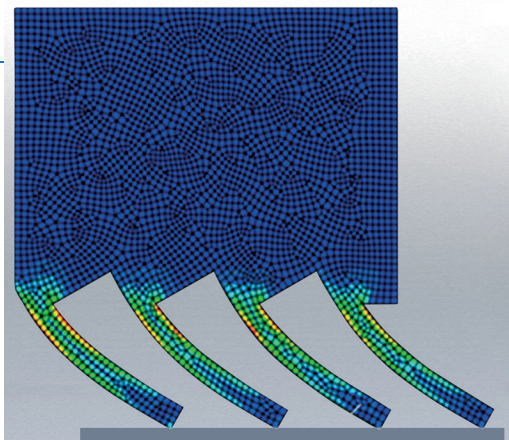
- Eliminates leakage due to bearing deflections
- Lowest seal lip seal force in the industry, resulting in lower torque
- Operates at lower lip temperature, resulting in extended seal life
- Seals flushing fluids during bearing production processes

Service:

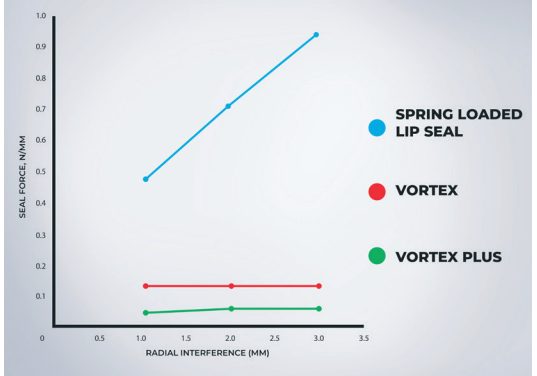
- Split and endless design available depending on application
- Can tolerate surface imperfections

Cost:

- Reduces downtime and lowers maintenance costs



Lip Contact Force v Displacement



Sizes available up to 5000 mm in all diameters to retrofit existing seal grooves and labyrinth seals.

OPERATING PARAMETERS

Parameter	Metric	Imperial
Temperature Range	-40°C to +80°C	-40°F to +175°F
Max Linear Speed	5 m/sec	16 ft/sec
Max Pressure	1 bar	14.5 psi

Temperature and pressure limits are application dependent. Please contact our Applications Engineers regarding specific application requirements.