

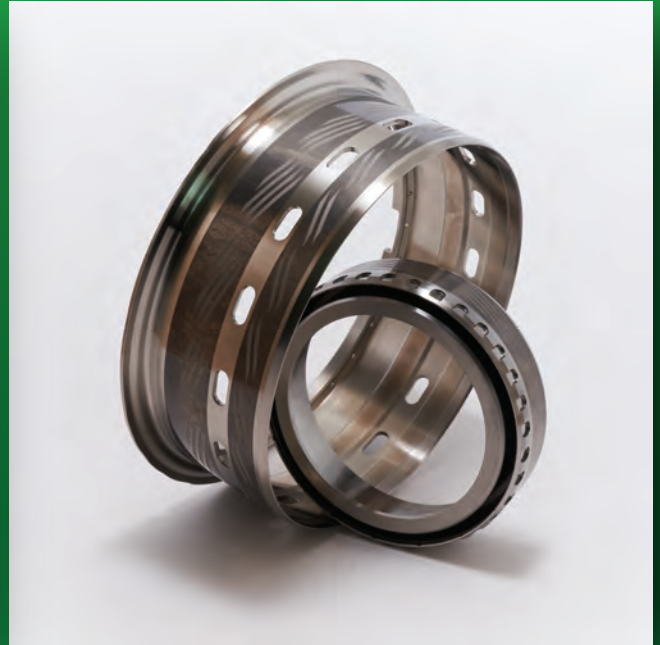


STEIN SEAL INDUSTRIAL

CIRCUMFERENTIAL SEALS



Circumferential Seal



Circumferential Seal Runner

Stein Seal Circumferential Seals

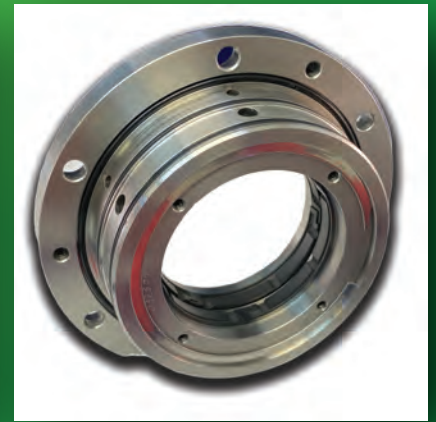
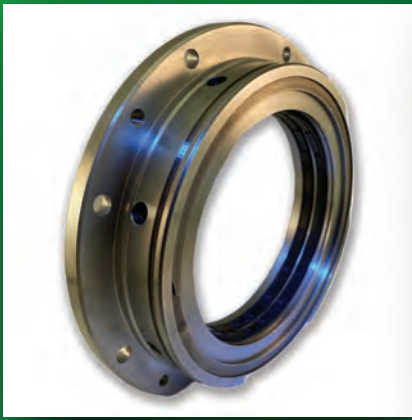
A versatile choice for a wide range of applications, Stein's circumferential seals comprise a segmented ring assembly made up of three or more carbon segments contained in a seal housing. The segments are radially loaded against the shaft using a garter spring, and each seal ring segment is locked against rotation.

Our primary circumferential seal is a contacting device that seals directly against the shaft. It is designed to exclude dangerous or toxic gasses and to prevent contamination of oil sumps. We also offer clearance, film-riding, gas and liquid circumferential seals with specific bore geometry to create hydrodynamic lift or suction, permitting the seal to operate under high-pressure differentials, liquid, or alternating liquid and gas environments.

Circumferential seals are available in several configurations, including standard single-ring, back-to-back, face-to-face, or in a tandem arrangement.

Stein Seal Industrial
375 East Church Road
Telford, PA 18969
U.S.A.





Designed for Excellence

Key features in our circumferential seal design significantly extend operating life while maintaining top-notch performance.

- Unique design increases flexibility to provide better sealing
- Specially designed gap segments permit the seal to adjust dimensionally for minimal leakage
- Distinctive fabrication reduces pressure loading to maximize seal life
- The use of compression and garter springs ensures that the segments remain in contact with mating surfaces during low delta pressure and shutdown conditions

Performance Characteristics

All our circumferential seals meet or exceed our rigorous specifications and are tested extensively to ensure compliance with industry standards.

- Shaft rotation speeds of up to 600 feet/s (183 meters/s)
- Temperature ranges over 1000°F (538°C)
- Pressure ranges up to 85 psid (586 KPa)
- Diameter sizes from 0.925" to 41.500" (23.495 to 1054.100 mm)*
- Seal life may exceed 20,000 hours

**There is no practical upper limit restriction to diameter*



Circumferential seals are a vital element in efficiently functioning compressors, generators, centrifuges, pumps, gas turbines. Often paired with our dry gas face seal to make a reliable sealing system, the circumferential seal can also function as an emergency shutdown seal if the dry gas face seal fails.

For more information on our circumferential seals, our complete line of seal products or to discuss your application requirements with our experts, please contact Stein Seal Industrial.



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