



STEIN SEAL INDUSTRIAL

FACE SEALS



Static Face Seal



Static Face Seal

Face Seals by Stein Seal Industrial

Face seals are designed to prevent leakage of liquid or gas, as well as the incursion of contaminating particulates, during industrial applications involving rotating equipment. You can find face seals in industrial pumps, turbines, or any other mechanism involving both moving and stationary parts where lubricants and/or process fluids are present.

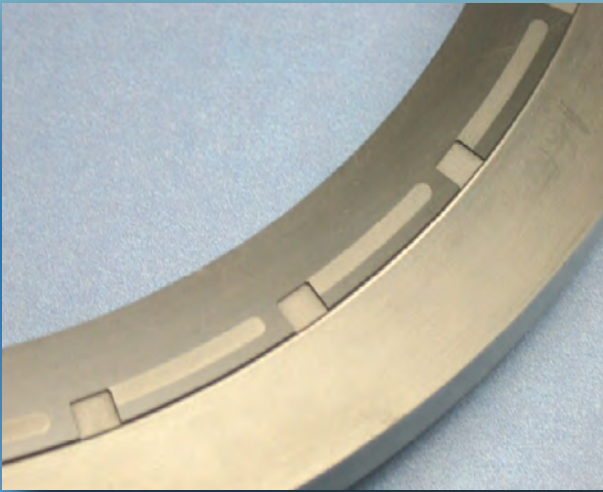
These systems are vulnerable to extreme conditions, such as pressure differentials, harsh environments, caustic chemicals, etc., which can lead to compromised seal integrity over time, through normal operation.

Stein Face Seal Innovations

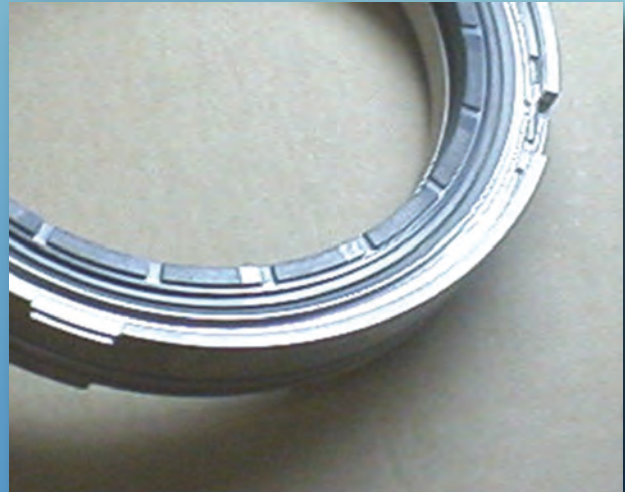
A common issue with face seals is the difficulty of maintaining sufficient lubrication between the sealing faces. Using state-of-the-art design tools, Stein Industrial engineers have developed innovative face-seal technologies that combat the issue and prevent damage caused by dry-running, face-to-face contact.

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Face Seal Innovations

Stein Seal engineers have helped increase the effectiveness and safety of modern face seals with a number of patented innovations, including:

Advanced spiral-groove designs

Hydrodynamic lift-off geometry

Inward and outward pumping designs

Bi- and uni-directional non-contacting lift-off seals

With these innovations, as the seal ring rotates, a buffer fluid, oil, or gas is forced between the sealing faces. In the resulting gap, the barrier fluid effectively keeps process fluids from leaking while creating hydrodynamic lift.



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