



Rexnord Aerospace Seal Applications

Since 1946, Rexnord Aerospace has been designing high-quality seals for many different aerospace and industrial applications. Rexnord Seals are designed to provide optimum leak protection in many different operating environments and are found in:

- Gas turbine engines
- Auxiliary power units
- Gearboxes and accessories
- Hydraulic power systems
- Environmental control systems
- Rockets and weapon systems
- Pumps and compressors
- Industrial turbines
- Many other rotating components

Rexnord engineers design optimum solutions for some of the most complex operating parameters. Our designs are intended to bring significant customer value, long life and product life services.

Rexnord Mating Rings

Choose exceptional performance and reliability with our mating rings.

Rexnord® Mating Rings are the critical “other half” of our face seals. All of our designs can be customized to meet a wide range of operating conditions and applications, each offering outstanding performance, long life and extraordinary value.

Theory of operation

A mechanical face seal consists of two parts — one that rotates and one that is stationary. The mating ring is the rotating member, mounted on the shafts, while the stationary seal assembly is installed into the housing bore. Proper mating ring materials and mounting are crucial to the optimum performance of the completed seal assembly. Typically we use 440 C Stainless material, but also offer several other material options to meet the demands of your application.

Exceptional performance and reliability depend as much on the rotating mating ring as on the stationary seal assembly. Both sealing faces must be lapped flat within millionths of an inch, so our team takes extreme care to ensure proper handling and installation.

Our engineers design customized mating rings by evaluating the application’s variable operating conditions and configuration limitations. High-speed applications will enable the use of shallow hydropad technology, resulting in cooling at the seal interface and longer life.





Features and benefits

- Wide variety of material options to meet the demands of specialized operating conditions
- Mating rings with shallow hydropads are dimensionally interchangeable with standard configurations to allow for product upgrades
- More than 60 years of proven design application experience to provide you and your customers with a high level of confidence



Since 1946, Rexnord Aerospace has satisfied the needs and critical demands of the aerospace industry with exceptional, high-quality products and innovative engineering. Choose Rexnord Aerospace products and solutions for your designs. Speak with our engineering sales staff to address your questions and design inquiries.