



### 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 Face Seals

### Our customizable face seals for your wide range of applications.

Rexnord® Face Seals are versatile, compact and economical. 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

Each of our face seal solutions has two components — one unit that remains stationary and one that rotates with a shaft. When the two parts mate, they form a seal or interface. Typically, the interface has one soft face with self-lubricating qualities, such as carbon graphite or bearing bronze, and a hard face of heat-treated steel or an equivalent surface. Satisfactory performance is made possible by separating the two faces with a lubricating film (normally one micron or less in thickness), and controlled mechanically to suit the permissible leakage rate and desired life of the seal.

Our team of engineers and experts take into consideration that different conditions present different problems; the flexibility of our designs enables us to resolve these challenges with modification of the basic design and careful selection of material grades. With precision analysis, we optimize various forces to achieve the desired balance between low leakage and long life for each application. Our seals can also be designed to be tamper resistant or repairable.

### Mating rings

Proper mating ring materials and mounting are crucial to the optimum performance of the completed seal assembly. A complete list of options and additional services is available upon request.

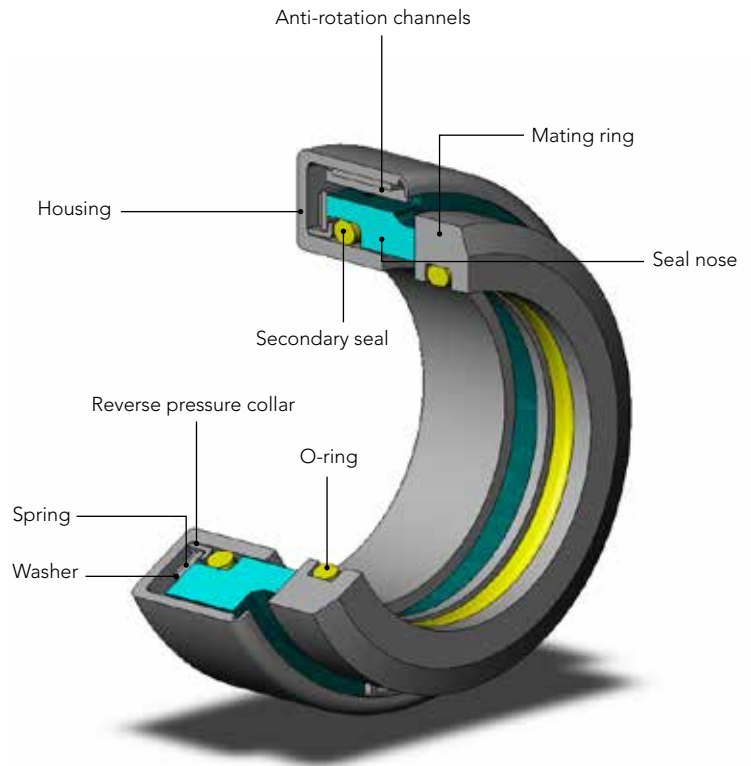
### Applications

The Rexnord team will always take your application's specific operating conditions into account as we create your custom seal solution. The performance of these critical components reflects the quality of their construction, installation and handling. A complete list of options and additional services is available upon request.





### Materials of construction



### Features and benefits

- Compact design to minimize weight and space requirements
- Versatile design to allow for custom modifications
- Repairable design to reduce overall life cycle costs
- Wide operating ranges to allow standardization of seal types
- Integral design options to reduce part count and weight
- Interchangeable liftoff sealing technology to accommodate product upgrades within the same space
- 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.