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## **Mechanical Seals Guide**

Mechanical Face Seal Replacement How To Use This Catalogue ♦  
Locate the manufacturer of the equipment. The manufacturer listings are alphabetical, refer to pages 7 - 13. ♦

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Identify the correct replacement seal. The seals are arranged by shaft size from smallest to largest. If you are unable to identify the seal, it will be necessary for you to

### **MECHANICAL SEAL SELECTION GUIDE - Hi-Tech Seals Inc.**

Mechanical Seals & API  
682 4th Edition. A  
sealing system,  
consisting of a  
mechanical seal and an

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associated supply system that is balanced by individual applications, is the utmost guarantee for a reliable sealing point and uninterrupted pump service. The performance of the seal is greatly influenced by the environment around the seal faces, making the provision of suitable, clean fluids as well as a moderate temperature an

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essential topic.

## **The Complete Guide for Mechanical Seals & API 682 4th ...**

Reduced maintenance costs with the implementation of mechanical seals due to their:

- ease of installation
- long, trouble-free life
- designed repairability
- low cost repair program
- elimination of packing adjustment costs

2 These

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guidelines reference the latest technology in cartridge, slurry, and split seals.

## **Mechanical Seal Guidelines - Flowserve**

Mechanical Seals for Pumps: Application Guidelines was created as a tool to be used by those who purchase or specify mechanical seals, as well as by the end users of rotating equipment in a wide

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variety of industries;  
Understanding the  
basis principles of  
mechanical seals,  
design variations, and  
limits is a tool that  
allows users to  
ascertain if they can  
achieve the Mean Time  
Between Repairs  
desired

## **Mechanical Seals Guidebook - Secure PDF**

Mechanical Seal  
Selection Basics Guide



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Basic Operation. A mechanical seal operates by having two flat faces running against each other. The rotating face is... The Seal Faces. For many years, the most popular combination of seal face material was the carbon rotating face running... Seal Flexibility ...

### **Mechanical Seal Selection Basics Guide**

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In mechanical face seals, elastomers tend to take second chair because the primary seal—the dynamic seal between the housing and rotating shaft—is achieved by sliding contact between the pair of stiffer, lapped-flat sealing faces, one stationary in the housing and one rotating with the shaft.

### **A Guide to Elastomer**

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## **Technology in Mechanical Seals ...**

All face-type mechanical seals consist of a primary seal, secondary seal, and mechanical loading device.

Mechanical seals must have two (2) flat faces that when pressed together form the primary seal. The flatness of these faces is the most precision-critical characteristic of any mechanical seal.

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Flatness is measured in helium light bands.

## **Mechanical Seals Technical Manual - Industrial Bearing S**

7 Considerations for  
Mechanical Seal  
Selection LIQUID.

Identifying the exact  
liquid being handled is  
the first step in the  
seal selection process.

Seal material must...

PRESSURE. Pressure in  
the seal chamber and  
seal size determines

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the type of seal required, balanced or unbalanced.

TEMPERATURE. ...

## **7 Considerations for Mechanical Seal Selection**

A mechanical seal is simply a method of containing fluid within a vessel (typically pumps, mixers, etc.) where a rotating shaft passes through a stationary housing or occasionally, where the

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housing rotates around the shaft. When sealing a centrifugal pump, the challenge is to allow a rotating shaft to enter the 'wet' area of the pump, without allowing large volumes of pressurized fluid to escape.

### **What is a Mechanical seal? | AESSEAL**

Mechanical seals use less friction than packing. Therefore,

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they require less  
horsepower  
consumption.

PRECISION LAPPED  
SEALING SURFACES

Positively control  
leakage and eliminate  
“break in” runs. HIGHER  
SPEEDS AND

PRESSURES Our seals  
are designed for higher  
speeds and pressures.

FLAT SURFACES OF  
MATING FACES

**us seal catalog 99 -  
All Seals Inc.**

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Mechanical seals incorporate a seat (stationary ring) and washer (rotating ring) that prevents leakage of the sealed fluid by rotating relative to the seal face. The washer is held in close contact with seat by spring pressure and the pressure exerted by the sealed fluid.

## **Mechanical Seals - TORISHIMA**

Welcome to AESSEAL  
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® : A specialist in the design and manufacture of mechanical seals and support systems. Our Mechanical Seals are used in a wide range of pumps and rotating equipment worldwide to prevent liquids and gases escaping into the environment.

**Mechanical Seals &  
Support Systems |  
AESSEAL**

OEM Replacement  
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Mechanical Seals  
Vulcan Seals has the world's largest range of seal designs for specific pumps and applications across all industries. Supplying FDA specified compliant materials for all Seals commonly used within the Food and Beverage industry.

### **Mechanical Seals | Vulcan Seals**

mechanical seal and is defined as In practice k

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values are selected between 0.65 and 1.2. With a lower  $k$  value, the safety against thermal overload will increase, but the mechanical seal may also lift off more easily. Unlike an O-Ring seal, the hydraulic diameter of a bellows seal is not a fixed geometric value. It is also influenced by

**Mechanical seal  
technology and**

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**selection -**

## **EagleBurgmann**

Today, our durable, versatile Type 28 non-contacting gas seals boast more than 750 million combined hours of operation, and our Type 2800 Series mechanical seals offer superior containment of fugitive emissions. The problem-solving nature of innovation often manifests as improvements to existing solutions.

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## **Mechanical Seals | John Crane**

Our collection of mechanical seals is supported by strong aftermarket services, and provides users with safety and environmental benefits. Flowserve seals are used on a variety of rotating equipment, including pumps, compressors, mixers, steam turbines and other specialty

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equipment.

## **Seals | Flowserve**

A mechanical seal is a device used to seal the interface between a rotating shaft and a stationary housing (Figure 1). This is commonly seen in centrifugal pumps although this challenge also exists in other equipment such as agitators, turbines, compressors, centrifuges, and

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blowers.

## **MATERIAL SELECTION FOR MECHANICAL SEALS**

Lubrication is necessary for proper mechanical seal installation. Lack thereof can damage o-rings or rubber bellows on the seal, causing them to tear, or roll. There are many options available, from petroleum jelly, to silicon grease, to

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special lubricants.

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