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A mechanical seal is a device which helps join systems or mechanisms together by preventing leakage (e.g., in a plumbing system), containing pressure, or excluding contamination. The effectiveness of a seal is dependent on adhesion in the case of sealants and compression in the case of gaskets. A seal may also be referred to as "packing."

In order to prevent any type of leakage through the two adjacent joints in your machinery, you must insert proper selection of mechanical seals designed for their specific purpose. Although the basic purpose of mechanical seal is to prevent leaks from mechanical joints, you cannot use one type of seal in place of other. Why because, all the seals are designed specifically for certain types of leakage to control over. For example, a mechanical seal that is designed for handling low temperature joints cannot appropriately work where high temperature requirement is a minimum criterion.

Depending Factors while selecting different types of Mechanical Seals:

A very significant factor to consider while selecting a proper mechanical seal is the type of fluid which is being passed through. The material of the seal would be depending on the type of fluid to be used.

At how much pressure your fluid is required to enter from the joint that is to be sealed also needs to consider while selecting a mechanical seal for your project.

Temperature of fluid as well as joint to be sealed would also play a vital role in terms of selecting a Right type of mechanical Seal to be used.

If Your Project involves rotating mechanism, Speed of rotating shaft would also be considered while selecting which type of seal to be used.

Types of Mechanical Seals:

There are numerous ways to classify the types of Mechanical Seals.

As Per the arrangement of mechanical Seals, It can be classified into two types- Either Single Seal and Dual Seal.

As Per the Configuration of Seals, It can be classified into two types: Pusher type And Non Pusher Type. These are further categorized into two types- Balanced Seals And Unbalanced Seals.

As Per the Size of Seals, It can be classified into various types- O-Ring seals, V-Ring Seals, U ring Seals, etc.

Genuine Mechanical Seal Suppliers also provides an instruction manual which smoothly guide you the best process to replace a proper type of seal with the old one. However, The best practice is to choose the seal as per your requirement Because sometimes, Exact cross referencing would not fulfill your criteria.

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[Nisha Ray](#) - About Author:

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