

MECHANICAL SEAL **INSTALLATION INSTRUCTIONS**

INSTALLING A MECHANICAL SEAL IN A **CENTRIFUGAL PUMP**

CAUTION: *Never put hands on lapped seal faces or put lapped seal parts face down on the workbench. Keep the mechanical seal in its original container until ready for installation.*

PREPARE PUMP

1. Clean and inspect pump parts.
2. Replace shaft or shaft sleeve and gland if worn in secondary sealing areas under o-rings, Teflon wedges or Teflon rings.
3. Check for good starting bevel and remove all burrs that would cut secondary seal o-rings or cause misalignment. Pay close attention to set screw marks.
4. Check shaft run out (to be within .001" TIR per inch of shaft dia.), shaft end play (not to exceed .005"), stuffing box face alignment (must be square to within .003" TIR and have a good sealing surface, 125 RMS min.) and condition of bearings. Replace if necessary.

INSTALLING SEAL

- 1) Bolt stuffing box back plate to the pump frame.
- 2) Install shaft sleeve.
- 3) Screw on impeller to hold shaft sleeve in proper position securely on shaft.
- 4) Scribe a line on the shaft sleeve at the face of the stuffing box.
- 5) Remove stuffing box plate.
- 6) Determine the operating length of a mechanical seal:
 - a) Place gland on clean area of workbench with the stuffing box face up.
 - b) Install stationary seal face with secondary sealing member in the gland (make sure gasket is in place if using a clamp type stationary).
 - c) Place gland gasket in proper position.
 - d) Place rotary unit, lapped face down, against the lapped stationary seal face.
 - e) With rotary unit at free height (not compressed by holding clips), measure the distance from the gland gasket to the top of the seal.
- 7) Determine the amount of compression on the seal:
 - a) Mechanical seals with multiple springs that are less than 2" in diameter require 1/8" compression.
 - b) Mechanical seals with multiple springs that are larger than 2" in diameter require 3/16" compression.
 - c) Mechanical seals with single springs usually have fixed or predetermined compression. Usually 1/2 of the free length of the single spring.

Mechanical Seal Installation Guide

A Gutmann



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Table of Contents Mechanical Seal Installation Guide

1. Understanding the eBook Mechanical Seal Installation Guide
 - The Rise of Digital Reading Mechanical Seal Installation Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Seal Installation Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanical Seal Installation Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Seal Installation Guide
 - Personalized Recommendations
 - Mechanical Seal Installation Guide User Reviews and Ratings
 - Mechanical Seal Installation Guide and Bestseller Lists
5. Accessing Mechanical Seal Installation Guide Free and Paid eBooks

- Mechanical Seal Installation Guide Public Domain eBooks
- Mechanical Seal Installation Guide eBook Subscription Services
- Mechanical Seal Installation Guide Budget-Friendly Options
- 6. Navigating Mechanical Seal Installation Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Seal Installation Guide Compatibility with Devices
 - Mechanical Seal Installation Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Seal Installation Guide
 - Highlighting and Note-Taking Mechanical Seal Installation Guide
 - Interactive Elements Mechanical Seal Installation Guide
- 8. Staying Engaged with Mechanical Seal Installation Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Seal Installation Guide
- 9. Balancing eBooks and Physical Books Mechanical Seal Installation Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Seal Installation Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Seal Installation Guide
 - Setting Reading Goals Mechanical Seal Installation Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Seal Installation Guide
 - Fact-Checking eBook Content of Mechanical Seal Installation Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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