

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

G Thomas



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Seals and Sealing Handbook Robert K. Flitney, 2014-06-13 *Seals and Sealing Handbook* Sixth Edition provides comprehensive coverage of sealing technology bringing together information on all aspects of this area to enable you to make the right sealing choice This includes detailed coverage on the seals applicable to static rotary and reciprocating applications the best materials to use in your sealing systems and the legislature and regulations that may impact your sealing choices Updated in line with current trends this updated reference provides the theory necessary for you to select the most appropriate seals for the job and with its Failure Guide the factors to consider should anything go wrong Building on the practical stepped approach of its predecessor *Seals and Sealing Handbook* 6th Edition remains an essential reference for any engineer or designer who uses seals in their work A comprehensive reference covering a broad range of seal types for all situations to ensure that you are able to select the most appropriate seal for any given task Includes supporting case studies and a unique Failure Guide to help you troubleshoot if things go wrong New edition includes the most up to date information on sealing technology making it an essential reference for anyone who uses seals in their work

Seal Solutions: A Comprehensive Guide to Design, Materials, and Applications Pasquale De Marco, 2025-07-23 This comprehensive guide provides a wealth of knowledge for engineers designers and technicians working with sealing solutions It covers a wide range of seal types including elastomeric metallic mechanical rotary and reciprocating seals offering a thorough understanding of their advantages and applications In depth exploration of seal basics design principles and advanced concepts empowers readers to make informed decisions when selecting and implementing seals Specialized topics such as finite element analysis computational fluid dynamics tribology and new materials for seals equip readers with cutting edge knowledge Numerous case studies and references to industry standards and regulations ensure that readers can apply their newfound knowledge to practical scenarios with confidence Whether you are an experienced professional seeking to refresh your knowledge or a novice engineer eager to gain a comprehensive understanding of seal design and engineering this book is the ultimate resource With its clear and concise explanations abundant illustrations and practical examples this book will help you master the art of seal design and ensure optimal performance and reliability in your sealing applications

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engineering These chapters also cover the topics of manufacturing methods engineering mathematics health and safety and units of measurements This book will be of great value to mechanical engineers

Root Cause Failure Analysis Trinath Sahoo, 2021-05-18 Root Cause Failure Analysis Provides the knowledge and failure analysis skills necessary for preventing and investigating process equipment failures Process equipment and piping systems are essential for plant availability and performance Regularly exposed to hazardous service conditions and damage mechanisms these critical plant assets can result in major failures if not effectively monitored and assessed potentially causing serious injuries and significant business losses When used proactively Root Cause Failure Analysis RCFA helps reliability engineers inspect the process equipment and piping system before any abnormal conditions occur RCFA is equally important after a failure happens it determines the impact of a failure helps control the resultant damage and identifies the steps for preventing future problems Root Cause Failure Analysis A Guide to Improve Plant Reliability offers readers clear understanding of degradation mechanisms of process equipment and the concepts needed to perform industrial RCFA investigations This comprehensive resource describes the methodology of RCFA and provides multiple techniques and industry practices for identifying predicting and evaluating equipment failures Divided into two parts the text first introduces Root Cause Analysis explains the failure analysis process and discusses the management of both human and latent error The second part focuses on failure analysis of various components such as bolted joints mechanical seals steam traps gearboxes bearings couplings pumps and compressors This authoritative volume Illustrates how failures are associated with part integrity a complete system or the execution of an engineering process Describes how proper design operation and maintenance of the equipment help to enhance their reliability Covers analysis techniques and industry practices including 5 Why RCFA fault tree analysis Pareto charts and Ishikawa diagrams Features a detailed case study of process plant machinery and a chapter on proactive measures for avoiding failures Bridging the gap between engineering education and practical application Root Cause Failure Analysis A Guide to Improve Plant Reliability is an important reference and guide for industrial professionals including process plant engineers planning managers operation and maintenance engineers process designers chemical engineers and instrument engineers It is also a valuable text for researchers instructors and students in relevant areas of engineering and science

Principles and Design of Mechanical Face Seals Alan O. Lebeck, 1992-04-16 Examines the fundamentals and practice of both the design and operation of face seals ranging from washing machines to rocket engine turbopumps Topics include materials tribology heat transfer and solid mechanics A variety of simple and complex models are proposed and evaluated and specific problems such as heat checking blistering and instability are considered Offers 64 tables and 364 references plus useful recommendations regarding the future of seal design

Operator'S Guide to Centrifugal Pumps, Volume 2 Robert X. Perez, 2014-12-26 Many readers have found Operator s Guide to Centrifugal Pumps Xlibris 2008 to be a valuable training resource for process operators Volume 2 provides additional training material in the form of student

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