



Mechanical Seal User Manual

- ❖ This is a comprehensive guide for the installation and maintenance of mechanical seals in pumps and other rotating equipment. Proper installation and maintenance are crucial for preventing leaks and extending the performance and lifespan of the equipment.

1. Introduction

- Mechanical seals are critical components used to prevent leaks in pumps and other rotating equipment.

2. Required Materials and Tools:

- Mechanical seal kit
- Cleaner and solvent
- Eye protection and gloves
- Assembly tools (e.g., screwdriver, wrench set)
- Precision measuring tools (micrometer, calipers)

3. Preparation:

3.1 Safety Precautions:

- Wear eye protection and gloves.
- Keep the work area clean and organized.

3.2 Equipment Preparation:

- Shut off the pump or equipment and disconnect power.
- Drain all liquids from the equipment.
- Carefully disassemble the equipment and remove the old seal.

4. Cleaning:

- Clean the mounting surfaces using a cleaner and solvent.
- Remove any residues and debris carefully.



5. Installation of Mechanical Seal:

5.1 Preparing the Seal:

- Carefully unpack the new mechanical seal.
- Arrange the seal components in the order of assembly.

5.2 Placing the Seal:

- Place the fixed ring of the seal carefully on the mounting surface.
- Fit the rotating ring onto the shaft, ensuring it is placed securely and evenly.

5.3 Assembly:

- Assemble the rotating and fixed rings together.
- Ensure a snug fit without applying excessive force.
- Verify that the seal is correctly aligned and securely in place.

6. Reassembly of Equipment:

6.1 Completing the Assembly :

- Carefully reassemble the equipment.
- Ensure all connections and gaskets are placed correctly.

6.2 Liquid Filling :

- Refill the pump or equipment with liquid.

6.3 Test and inspection :

- Start the equipment and check for seal integrity.
- Observe for any leaks or abnormalities.



7. Maintenance and Monitoring:

- Regularly monitor the performance of the seal.
- Watch for any signs of wear or damage.
- Replace the seal if necessary.

8. Conclusion:

- ✓ Proper installation and maintenance of mechanical seals ensure the efficient and safe operation of your equipment. By following this guide, you can prolong the lifespan of your mechanical seal and minimize the risk of leaks.
- ✓ If you have any questions or need more detailed information on a specific topic, our technical team is always available to assist you.

THANK YOU FOR YOUR COOPERATION.

