

Grundfos Cab-96409265

Grundfos TP Shaft Seal Kit for VersaFlo Pumps

Model: Cab-96409265

Brand: Grundfos

1. INTRODUCTION

This instruction manual provides essential information for the proper installation and maintenance of the Grundfos TP Shaft Seal Kit, model Cab-96409265. This kit is designed specifically for use with Grundfos VersaFlo Pumps to ensure optimal performance and longevity. Adherence to these instructions is crucial for safe operation and to maintain product integrity.

2. SAFETY INFORMATION

Always prioritize safety when working with pumps and their components. Failure to follow safety precautions can result in serious injury or equipment damage.

- **Disconnect Power:** Always disconnect electrical power to the pump and ensure it cannot be accidentally reconnected before beginning any installation or maintenance.
- **Relieve Pressure:** Ensure all system pressure is relieved and the pump casing is drained before opening the pump or removing components.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses and gloves, to protect against potential hazards.
- **Hot Surfaces:** Pumps and their components can be hot. Allow sufficient time for cooling before handling.
- **Refer to Pump Manual:** Always consult the main Grundfos VersaFlo Pump instruction manual for additional safety guidelines and specific disassembly/reassembly procedures.

3. KIT CONTENTS

The Grundfos TP Shaft Seal Kit (Cab-96409265) typically includes the following components. Inspect the kit upon receipt to ensure all parts are present and undamaged.



Figure 1: Overview of the Grundfos TP Shaft Seal Kit components. This image displays the complete kit, including various O-rings and the main mechanical seal assembly.

- Mechanical Seal Assembly (rotating and stationary parts)
- Various O-rings/Gaskets
- Ceramic or Carbon Ring (depending on specific kit variant)

4. INSTALLATION

This section outlines the general procedure for installing the shaft seal kit. Always refer to the specific Grundfos VersaFlo Pump manual for detailed, model-specific instructions.

4.1. Preparation

1. Ensure the pump is completely isolated from power and all system pressure is relieved.
2. Drain the pump casing and associated piping.
3. Place a suitable container to catch any residual fluid.

4.2. Removal of Old Seal

1. Carefully disassemble the pump components to gain access to the existing shaft seal. This typically involves removing the motor, impeller, and seal housing.
2. Note the orientation and position of all components as they are removed.
3. Extract the old shaft seal components. Dispose of them responsibly.

4.3. Cleaning and Inspection

1. Thoroughly clean the pump shaft, seal housing, and any other mating surfaces. Remove all debris, scale, and old gasket material.
2. Inspect the pump shaft for any scoring, pitting, or excessive wear that could compromise the new seal.
3. Inspect the seal housing for damage or irregularities.

4.4. Installation of New Seal



Figure 2: Detailed view of individual seal components. This image highlights the mechanical seal, a ceramic ring, and an O-ring, showing their distinct forms.

1. Lightly lubricate the new O-rings and rubber parts of the seal with clean water or a compatible, non-petroleum-based lubricant. Do not use grease or oil unless specified by Grundfos.
2. Carefully install the stationary part of the seal into the pump housing. Ensure it is seated correctly and evenly. Avoid applying force directly to the sealing face.
3. Slide the rotating part of the seal onto the pump shaft. Ensure the sealing faces are clean and free of fingerprints or debris.
4. Assemble the remaining pump components, ensuring proper alignment and seating of all parts.
5. Tighten all fasteners to the torque specifications provided in the main pump manual.

4.5. Testing

1. Slowly reintroduce fluid into the pump system, checking for any immediate leaks.
2. Restore electrical power to the pump.
3. Start the pump and monitor for leaks, unusual noises, or vibrations. Allow the pump to run for a short period to ensure the seal seats properly.

5. MAINTENANCE

The shaft seal is a wear component and requires periodic inspection and replacement. Regular maintenance helps prevent unexpected downtime and costly repairs.

- **Regular Inspection:** Periodically inspect the area around the shaft seal for signs of leakage (drips, residue) or unusual noise.
- **Replacement Schedule:** Replace the shaft seal kit if any signs of failure are observed, such as persistent leakage, or as part of a scheduled preventative maintenance program for your Grundfos VersaFlo Pump.
- **Cleanliness:** Maintain a clean operating environment to prevent foreign particles from entering the seal area.

6. TROUBLESHOOTING

This section addresses common issues related to shaft seals. For comprehensive pump troubleshooting, refer to your Grundfos VersaFlo Pump manual.

- **Leakage from Seal:**

- **Cause:** Improper installation, damaged O-rings, incorrect seal type, scored pump shaft, or debris on sealing faces.
- **Action:** Disconnect power, relieve pressure, disassemble, inspect all components for damage, clean thoroughly, and re-install the seal kit carefully. Replace any damaged parts.

- **Premature Seal Wear:**

- **Cause:** Abrasive particles in the fluid, excessive vibration, misalignment, or operating outside pump's specified conditions.
- **Action:** Check fluid quality, inspect pump for proper alignment and balance, and ensure pump is operating within its design parameters.

7. SPECIFICATIONS

- **Product Name:** TP Shaft Seal Kit
- **Brand:** Grundfos
- **Model Number:** Cab-96409265
- **ASIN:** B079GMRM49
- **Compatibility:** Designed for Grundfos VersaFlo Pumps. Refer to your specific pump model's documentation for exact compatibility.

8. SUPPORT

For technical assistance, warranty information, or further inquiries regarding your Grundfos TP Shaft Seal Kit or VersaFlo Pump, please contact Grundfos customer support or visit the official Grundfos website.

Grundfos Official Website: www.grundfos.com