

## SKF 99096

# SKF 99096 Speedi-Sleeves Instruction Manual

Model: 99096 | Brand: SKF

## 1. INTRODUCTION

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This manual provides detailed instructions for the proper installation, operation, and maintenance of the SKF 99096 Speedi-Sleeve. Adhering to these guidelines will ensure optimal performance and longevity of the product. Please read this manual thoroughly before proceeding with any procedures.

## 2. PRODUCT OVERVIEW

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The SKF 99096 Speedi-Sleeve is a thin-walled, precision-engineered sleeve designed to quickly and effectively repair worn shafts without the need for costly and time-consuming shaft regrinding or machining. It provides an optimal counterface for radial shaft seals, restoring sealing efficiency and extending equipment life.



Figure 1: The SKF 99096 Speedi-Sleeve, showing the sleeve and its protective cap.

### Key Features:

- **Easy Installation:** Can be installed quickly with minimal tools.
- **Durable Material:** Constructed from high-quality stainless steel.
- **Cost-Effective Repair:** Eliminates the need for shaft machining or replacement.
- **Optimal Sealing Surface:** Provides a smooth, wear-resistant surface for radial shaft seals.

### 3. SETUP AND INSTALLATION

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Proper installation is critical for the performance of the Speedi-Sleeve. Follow these steps carefully:

1. **Inspect the Shaft:** Clean the shaft thoroughly and inspect for burrs, sharp edges, or deep grooves that could damage the sleeve or seal. Remove any imperfections.
2. **Measure the Shaft:** Accurately measure the shaft diameter at the seal contact area. Ensure it falls within the specified tolerance for the SKF 99096 Speedi-Sleeve.
3. **Prepare the Sleeve:** The Speedi-Sleeve comes with a removable flange. For most applications, the flange should be removed after installation.
4. **Install the Sleeve:**
  - Position the sleeve squarely on the shaft.
  - Using a suitable installation tool (e.g., a plastic hammer and a sleeve driver), gently tap the sleeve onto the shaft until it covers the worn area and is seated firmly. Ensure even pressure is applied to prevent distortion.
5. **Remove the Flange:** Once the sleeve is fully seated, carefully cut or break off the installation flange. Ensure no sharp edges remain that could interfere with the seal.
6. **Install the Seal:** Install the new radial shaft seal over the Speedi-Sleeve according to the seal manufacturer's instructions.

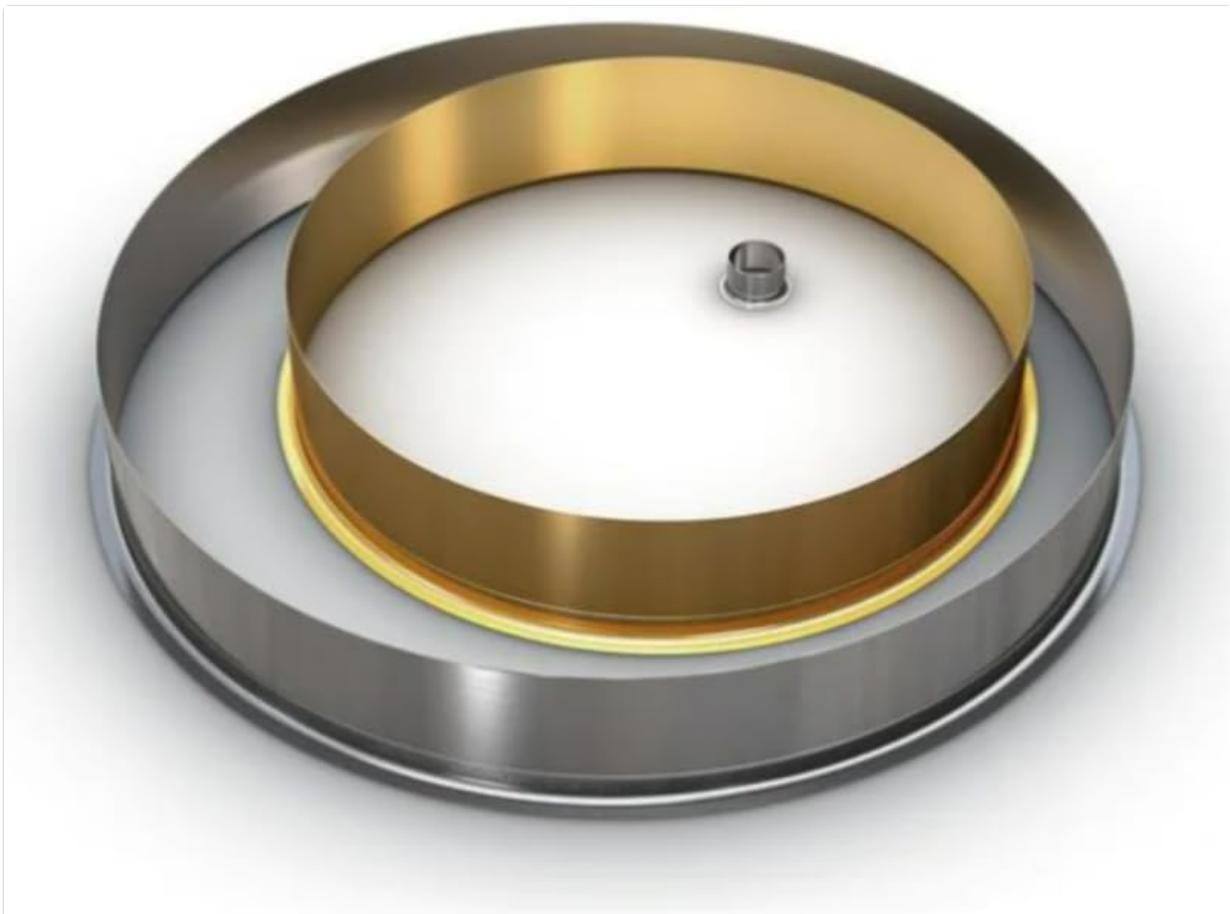


Figure 2: An SKF Speedi-Sleeve correctly installed on a shaft, providing a new sealing surface.

## 4. OPERATING PRINCIPLES

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The SKF 99096 Speedi-Sleeve functions as a passive component, providing a renewed, smooth, and hard-wearing surface for radial shaft seals. Once installed, its primary role is to restore the integrity of the sealing system by offering an optimal counterface, thereby preventing lubricant leakage and ingress of contaminants. It operates continuously as part of the shaft assembly, requiring no active user intervention during normal machinery operation.

## 5. MAINTENANCE

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The SKF Speedi-Sleeve itself is a maintenance-free component once correctly installed. Its durable stainless steel construction is designed for long-term performance. Maintenance efforts should focus on the radial shaft seal operating against the sleeve.

- **Regular Inspection:** Periodically inspect the radial shaft seal for signs of wear, cracking, hardening, or leakage.
- **Seal Replacement:** Replace the radial shaft seal at recommended service intervals or if any signs of failure are observed.
- **Cleanliness:** Ensure the area around the seal and sleeve remains clean and free from abrasive contaminants.

## 6. TROUBLESHOOTING

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While Speedi-Sleeves are designed for reliable performance, issues can arise, often related to installation or the associated seal.

Problem	Possible Cause	Solution
Sleeve does not fit or is difficult to install	Incorrect sleeve size; shaft burrs or damage; improper installation tool.	Verify shaft diameter and sleeve part number. Remove any shaft imperfections. Use the correct installation tool and apply even force.
Seal leakage after installation	Damaged seal; improper seal installation; flange not fully removed; sleeve damaged during installation.	Inspect the new seal for damage before installation. Ensure the seal is installed correctly. Verify the sleeve flange is completely removed and smooth. Inspect the sleeve for damage.
Premature seal wear	Contamination; excessive temperature; improper lubricant; misaligned shaft.	Ensure proper sealing environment. Check operating temperatures and lubrication. Verify shaft alignment.

## 7. SPECIFICATIONS

- **Model Number:** 99096
- **Brand:** SKF
- **Item Weight:** Approximately 1.65 ounces (46.77 grams)
- **Product Dimensions:** Approximately 4.25 x 4.25 x 1.75 inches (10.8 x 10.8 x 4.45 cm)
- **Country Of Origin:** United States
- **Material:** Stainless Steel

## 8. WARRANTY INFORMATION

Specific warranty details for the SKF 99096 Speedi-Sleeve are typically provided at the point of purchase or can be obtained directly from SKF or an authorized distributor. It is recommended to retain your proof of purchase for any warranty claims. General warranty terms usually cover manufacturing defects under normal use conditions.

## 9. CUSTOMER SUPPORT

For further assistance, technical inquiries, or support regarding the SKF 99096 Speedi-Sleeve, please contact SKF customer service or visit the official SKF website. You may also refer to the [SKF Store on Amazon](#) for additional product information and resources.