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> [SKF LARGE DIAMETER SEAL \(#593020\) Instruction Manual](#)

## SKF #593020

# SKF LARGE DIAMETER SEAL (#593020) - Instruction Manual

Model: #593020

## 1. PRODUCT OVERVIEW

This manual provides essential information for the proper handling, installation, and maintenance of the SKF Large Diameter Seal, model #593020. This seal is designed for industrial applications requiring effective sealing solutions for large diameter shafts.

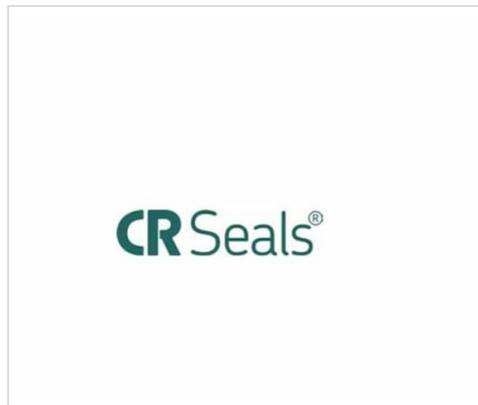


Image 1: The "CR Seals" logo, representing a product line often associated with SKF seals. This image illustrates the branding related to the seal product.

## 2. SAFETY INFORMATION

Always observe standard safety precautions when handling industrial components. Wear appropriate personal protective equipment (PPE) such as gloves and eye protection. Ensure machinery is de-energized and locked out before installation or maintenance.

## 3. SETUP AND INSTALLATION

Proper installation is crucial for the longevity and performance of the seal. Follow these general guidelines:

1. **Preparation:** Ensure the shaft and housing bore are clean, free from burrs, scratches, and contaminants. Check for proper chamfers on the shaft and bore to prevent seal lip damage during installation.
2. **Lubrication:** Lightly lubricate the seal lips and the shaft with the system's operating fluid or a compatible lubricant.
3. **Installation Tool:** Use a suitable installation tool that applies even pressure to the seal's outer diameter. Avoid using sharp objects or hammers directly on the seal.
4. **Alignment:** Ensure the seal is installed squarely into the housing bore. Misalignment can lead to premature wear and leakage.
5. **Shaft Entry:** Carefully slide the seal over the shaft, ensuring the sealing lip is not inverted or damaged. Protective sleeves or tape can be used over keyways or sharp edges on the shaft during installation.

## 4. OPERATING CONSIDERATIONS

Once installed, the seal operates as part of the larger system. Ensure the operating conditions (temperature, pressure, shaft speed, and media compatibility) are within the seal's specified limits to prevent premature failure. Refer to the machinery's specific operating manual for detailed instructions related to the overall system.

## 5. MAINTENANCE

Seals are wear components and require periodic inspection and replacement. The lifespan of the seal depends heavily on operating conditions and proper installation.

- **Regular Inspection:** Periodically inspect the seal area for signs of leakage, excessive heat, or unusual noise.
- **Replacement:** Replace the seal immediately if any signs of damage or leakage are observed. It is recommended to replace seals during routine machinery overhauls or preventative maintenance schedules.
- **Storage:** Store new seals in their original packaging in a cool, dry place away from direct sunlight, ozone, and heat sources to preserve their material properties.

## 6. TROUBLESHOOTING

Most seal issues are related to improper installation or operating conditions outside the seal's design parameters.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Leakage	Improper installation, damaged seal lip, excessive shaft runout, incorrect seal size, worn seal.	Reinstall correctly, replace seal, check shaft alignment, verify seal dimensions, replace worn seal.
Premature Wear	Abrasive media, high temperature, insufficient lubrication, excessive shaft speed, chemical incompatibility.	Filter media, check operating temperature, ensure proper lubrication, verify shaft speed, select compatible seal material.

## 7. SPECIFICATIONS

Key specifications for the SKF Large Diameter Seal (#593020):

- **Model Number:** #593020
- **Manufacturer:** SKF
- **Item Weight:** 3.45 Pounds
- **ASIN:** B01DM9FXVG
- **First Available:** March 28, 2016

## 8. WARRANTY AND SUPPORT

For specific warranty information and technical support regarding SKF products, please refer to the official SKF website or contact your authorized SKF distributor. Warranty terms typically cover manufacturing defects and vary by region and product type.

**SKF Official Website:** [www.skf.com](http://www.skf.com)

**Contact Support:** Refer to the "Contact Us" section on the SKF website for regional support details.