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SKF 16108

SKF Seal - Model 16108

Product Instruction Manual

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1. PRODUCT OVERVIEW

The SKF Seal, Model 16108, is a precision-engineered component designed to effectively contain lubricants and prevent the ingress of contaminants in various mechanical applications. SKF has a long-standing history in seal design, ensuring that this product meets high-quality standards for reliable performance and extended service life. Manufactured with premium materials, this seal is optimized to perform reliably even in extreme operating conditions, offering superior fluid and temperature compatibility.



Figure 1: Front view of the SKF Seal Model 16108. This image displays the seal's primary sealing lip and its robust outer metal casing, designed for secure fitment and effective sealing.



Figure 2: Rear view of the SKF Seal Model 16108. This perspective reveals the garter spring, which provides consistent radial load on the shaft, and other secondary sealing elements crucial for optimal contamination exclusion.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of the SKF Seal. It is recommended that installation be performed by a qualified technician using appropriate tools and following vehicle or equipment manufacturer's guidelines.

2.1 Pre-Installation Checks

- **Inspect the Seal:** Before installation, carefully inspect the seal for any signs of damage, such as cracks, deformities, or nicks on the sealing lips. Do not install a damaged seal.
- **Clean the Housing and Shaft:** Ensure that the housing bore and shaft surface are thoroughly clean and free from dirt, rust, burrs, or old seal material. Any contaminants can compromise the seal's effectiveness.
- **Check Shaft Surface:** Verify that the shaft surface where the seal will run is smooth and free from grooves or wear. A worn shaft can lead to premature seal failure.

- **Lubricate:** Apply a thin layer of the intended lubricant (e.g., grease or oil) to the sealing lips of the new seal and the shaft surface to facilitate smooth installation and initial operation.

2.2 Installation Procedure

Use a seal installation tool or a suitable driver that applies force evenly around the outer diameter of the seal. Avoid striking the seal directly with a hammer, as this can deform the seal and lead to leaks.

1. Align the seal squarely with the housing bore.
2. Using the appropriate installation tool, gently and evenly press or tap the seal into the bore until it is fully seated. Ensure it is not cocked or tilted.
3. Verify that the seal is flush with the housing or seated to the specified depth as per manufacturer's instructions.

3. FUNCTION AND OPERATION

The SKF Seal Model 16108 functions as a critical barrier in mechanical systems. Its primary role is to:

- **Retain Lubricants:** Prevent the escape of essential lubricants (e.g., oil, grease) from bearing housings or other enclosed spaces, ensuring proper lubrication of moving parts.
- **Exclude Contaminants:** Block the entry of harmful external contaminants such as dirt, dust, water, and debris into the system, which can cause premature wear and damage to components.

The seal achieves this through its precisely engineered sealing lips, which maintain continuous contact with the rotating shaft, and its robust outer casing, which provides a secure fit within the housing. The specialized compounds used in its construction ensure reliable performance across a wide range of temperatures and fluid types.

4. MAINTENANCE

SKF Seals are designed as durable, maintenance-free components. They do not require routine lubrication or adjustment after proper installation. Their lifespan is primarily determined by operating conditions, proper installation, and the integrity of the surfaces they seal against.

4.1 Inspection

While the seal itself is maintenance-free, periodic inspection of the surrounding area for signs of leakage or excessive contamination ingress is recommended as part of routine equipment maintenance. Any visible leakage of lubricant or presence of external contaminants around the seal indicates potential seal failure and necessitates replacement.

4.2 Replacement

Seals are wear components and should be replaced if they show signs of failure. It is generally recommended to replace seals whenever associated components (e.g., bearings) are replaced, or during major overhauls, to ensure continued system integrity.

5. TROUBLESHOOTING

The primary issue associated with a seal is its failure to perform its sealing function. This typically manifests as:

5.1 Common Issues and Solutions

Symptom	Possible Cause	Solution
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Symptom	Possible Cause	Solution
Visible lubricant leakage around the seal.	<ul style="list-style-type: none"> ◦ Worn or damaged seal lips. ◦ Improper installation (e.g., cocked seal, damaged during installation). ◦ Damaged or worn shaft surface. ◦ Excessive pressure or temperature. ◦ Incorrect seal size or type for the application. 	<ul style="list-style-type: none"> ◦ Replace the seal. ◦ Ensure correct installation procedure is followed. ◦ Inspect and repair/replace shaft if necessary. ◦ Verify operating conditions are within seal specifications. ◦ Confirm correct seal part number for the application.
Contaminants (dirt, water) entering the system.	<ul style="list-style-type: none"> ◦ Worn or damaged seal lips. ◦ Improper installation. ◦ Excessive external contamination. 	<ul style="list-style-type: none"> ◦ Replace the seal. ◦ Ensure correct installation procedure is followed. ◦ Address source of excessive contamination if possible.

In most cases of seal failure, the solution involves replacing the seal. Always ensure the replacement seal is the correct part number and is installed according to best practices.

6. PRODUCT SPECIFICATIONS

Attribute	Detail
Brand	SKF
Model Number	16108
Manufacturer Part Number	16108
Item Weight	1.12 ounces
Package Dimensions	3.13 x 3.13 x 0.63 inches
Exterior Finish	Machined
ASIN	B00HFLBCVI
First Available	January 1, 2008

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Specific warranty terms for the SKF Seal Model 16108 are typically provided by the manufacturer, SKF, or the authorized distributor at the time of purchase. Please refer to the documentation included with your purchase or visit the official SKF website for detailed warranty policies.

7.2 Customer Support

For technical assistance, product inquiries, or support regarding the SKF Seal, please contact SKF customer service or

your authorized SKF distributor. Contact information can usually be found on the official SKF website or through your point of purchase.

You can visit the official SKF Store on Amazon for more information:[SKF Store](#)

