SKF 401105

SKF Seal - 401105 Instruction Manual

Model: **401105** | Brand: **SKF**

1. Product Overview

The SKF Seal - 401105 is a high-quality sealing component designed to prevent the leakage of lubricants and the ingress of contaminants in various mechanical applications. Manufactured by SKF, a global leader in bearing and seal technology, this product is engineered for reliable performance in demanding operating conditions.



Image 1.1: The SKF Seal 401105, a black circular sealing component designed for industrial and automotive applications. This image shows the seal's robust construction and precise engineering.

Key Features:

- Keeps lubricants in and contaminants out.
- Optimized compounds perform reliably in extreme operating conditions.
- Superior fluid and temperature compatibility.
- Excellent contamination exclusion.

What's in the Box:

- V-Ring Seal (SKF Seal - 401105)

2. Installation and Setup

Proper installation is crucial for the optimal performance and longevity of the SKF Seal - 401105. Always refer to the specific equipment manufacturer's service manual for detailed installation procedures and torque specifications.

General Installation Guidelines:

1. **Preparation:** Ensure the shaft and housing bore are clean, free from burrs, scratches, and any foreign particles. Lubricate the seal lip and the shaft with the same lubricant that will be sealed.
2. **Orientation:** Install the seal with the sealing lip facing the lubricant or the side requiring sealing. For V-rings, the lip typically faces the bearing or component to be protected.
3. **Pressing:** Use an appropriate installation tool to press the seal squarely into its housing bore. Avoid using sharp objects or hammers directly on the seal, as this can damage the sealing lip or the seal body. Ensure even pressure is applied around the circumference.
4. **Inspection:** After installation, visually inspect the seal to ensure it is seated correctly and that the sealing lip is not inverted or damaged.



Image 2.1: A person holding a blue SKF product box in a workshop environment, emphasizing the importance of using genuine SKF parts for proper installation and performance.

3. Operating Principles

The SKF Seal - 401105 functions by creating a dynamic or static barrier to prevent the passage of fluids or contaminants. As a V-ring seal, it is typically mounted on a shaft and seals axially against a counterface, such as a housing wall or a washer.

How it Works:

- The V-ring seal rotates with the shaft, and its flexible lip maintains continuous contact with the stationary counterface.
- This contact creates a centrifugal force that helps to fling away contaminants and maintain a clean sealing area.
- The design allows for minor shaft misalignment and provides excellent exclusion of dirt, dust, and splash water, while retaining grease or oil.

4. Maintenance

SKF seals are designed for durability and long service life. Regular maintenance of the surrounding components and periodic inspection of the seal can help ensure continued optimal performance.

Maintenance Tips:

- **Regular Inspection:** Periodically check the area around the seal for signs of leakage or excessive wear on the sealing lip.
- **Lubrication:** Ensure that the system the seal is protecting is adequately lubricated, as dry running can significantly reduce seal life.
- **Environmental Factors:** Protect the seal from harsh chemicals, extreme temperatures, and abrasive particles that are outside its specified operating conditions.
- **Replacement:** Replace the seal if any signs of damage, hardening, cracking, or significant leakage are observed. It is often recommended to replace seals whenever associated bearings or components are serviced.

5. Troubleshooting

Most issues related to seals stem from improper installation, incorrect application, or extreme operating conditions. Below are common problems and their potential causes.

Problem	Possible Cause	Solution
Oil/Grease Leakage	Damaged or worn sealing lip, incorrect installation, excessive pressure, shaft surface damage.	Inspect and replace seal, ensure proper installation, check system pressure, repair or replace shaft.
Premature Seal Wear	Lack of lubrication, abrasive contaminants, excessive temperature, shaft misalignment.	Verify lubrication, improve contamination exclusion, check operating temperature, correct alignment.
Seal Extrusion	Excessive pressure, incorrect seal size for gap.	Reduce pressure, use correct seal size or backup ring.

6. Specifications

The following table provides detailed specifications for the SKF Seal - 401105.

Attribute	Value
Manufacturer	SKF USA, Inc.
Brand	SKF
Model	SKF
Item Weight	3.52 ounces
Package Dimensions	4.75 x 4.75 x 0.88 inches
Item Model Number	401105
Exterior	Machined

Attribute	Value
Manufacturer Part Number	401105
ASIN	B00460J1ZA
Date First Available	November 2, 2010

7. Support and Warranty

For technical assistance, product inquiries, or warranty information regarding your SKF Seal - 401105, please contact SKF customer support or visit the official SKF website.

Frequently Asked Questions (FAQs):

- **Which Product Fits my Vehicle?** Please enter your vehicle information into the site search function for product offer suggestion.
- **Can You Check if the Product Fits My Vehicle?** Please Send Us a Message and we Can Check for You.
- **Are SKF Products Equivalent to OEM?** Yes, SKF products are equivalent to OE quality.

SKF products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact SKF directly.



Image 7.1: The SKF brand logo, representing the manufacturer's commitment to quality and reliability in their automotive parts and accessories.

© 2024 SKF. All rights reserved. This manual is for informational purposes only.