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Value V-Ring Seal, 40mm ID

V-Ring Seal Instruction Manual

Model: V-Ring Seal, 40mm ID

Brand: Value

PRODUCT OVERVIEW

The Value V-Ring Seal is a stretch-fit sealing component designed to protect bearings and seals from contaminants such as dirt, dust, and moisture, while also retaining lubricants. Made from Buna N material, this seal offers excellent resistance to oils, fuels, and other chemicals, making it suitable for a wide range of industrial applications. Its unique design allows for dynamic sealing on rotating shafts.



Figure 1: A black V-Ring seal, circular in shape, designed for sealing applications. The seal has a smooth, uniform surface and appears to be made of a flexible, synthetic rubber material.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of the V-Ring seal. Follow these steps carefully:

- Preparation:** Ensure that the shaft and housing surfaces where the V-Ring will be installed are clean, dry, and free from burrs, sharp edges, or any contaminants. A clean surface prevents damage to the seal and ensures proper adhesion and sealing.
- Lubrication:** Lightly lubricate the shaft and the inner lip of the V-Ring seal with a compatible lubricant. This facilitates easier installation and reduces the risk of damage during mounting.
- Mounting:** Carefully stretch the V-Ring seal over the shaft. Ensure the sealing lip faces the direction of the medium to be sealed or the contaminants to be excluded. The V-Ring should sit snugly against the shaft, with its flexible lip making contact with the counterface (e.g., bearing housing or machine casing).
- Alignment:** Verify that the V-Ring is seated squarely and evenly on the shaft. Uneven installation can lead to premature wear or ineffective sealing.

Note: Avoid using sharp tools during installation, as this can damage the seal material.

OPERATING PRINCIPLES

The V-Ring seal operates as a dynamic axial seal. Its flexible lip seals axially against a counterface, typically a bearing housing or a washer. As the shaft rotates, the V-Ring rotates with it, and the centrifugal force helps to maintain the sealing contact while expelling contaminants away from the sealing area. This design effectively prevents the ingress of dirt, dust, water splashes, and other external media, while also retaining grease or oil within the bearing system. The stretch-fit design ensures a tight fit on the shaft, allowing the seal to function effectively even with minor shaft eccentricities or misalignments.

MAINTENANCE

V-Ring seals are generally low-maintenance components, but periodic inspection can extend their service life and prevent system failures:

- Visual Inspection:** Regularly inspect the V-Ring seal for signs of wear, cracking, hardening, or damage to the sealing lip. Look for any visible leakage around the seal.
- Contaminant Buildup:** Check for excessive buildup of dirt or debris around the seal, which could impede its function. Clean the area if necessary, ensuring no foreign particles enter the sealed system.
- Replacement:** Replace the V-Ring seal if any signs of significant wear or damage are observed, or if leakage occurs. The lifespan of the seal depends on operating conditions such as temperature, speed, and the presence of abrasive media.
- Storage:** Store spare V-Ring seals in a cool, dry place away from direct sunlight, ozone, and extreme temperatures to prevent material degradation.

TROUBLESHOOTING

If you experience issues with your V-Ring seal, consider the following common problems and their potential solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Leakage	- Improper installation (e.g., seal not seated squarely) - Damaged or worn seal lip - Incorrect seal size for shaft - Excessive shaft runout or misalignment	- Reinstall the seal, ensuring proper alignment. - Replace the seal. - Verify shaft diameter and seal ID. - Check and correct shaft alignment.
Premature Wear	- Abrasive contaminants in the environment - High operating temperatures - Excessive shaft speed - Chemical incompatibility with sealed media	- Improve environmental sealing or consider a protective cover. - Ensure operating temperature is within specified range. - Verify shaft speed is within seal limits. - Confirm seal material compatibility with all fluids.

SPECIFICATIONS

Detailed specifications for the V-Ring Seal (PK2):

- Type:** Stretch Fit V-Ring Seal
- Seal Material:** Buna N (Synthetic Rubber)
- Inside Diameter (ID):** 40mm
- Width:** 5mm
- Height:** 9mm
- Seal Durometer:** 60 Shore A
- Color:** Black
- Seal Temperature Range:** -20°F to +230°F (-28.9°C to +110°C)
- Package Quantity:** 2 seals
- Manufacturer:** VALUE BRAND
- ASIN:** B0763J9TPX

WARRANTY AND SUPPORT

This V-Ring Seal is manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided by your retailer or contact the manufacturer, Value Brand, directly. General return policies may apply, such as the 30-day return policy offered by some sellers.

For technical support or inquiries regarding product application, please reach out to the Value Brand customer service or your product supplier. Always provide the product model (V-Ring Seal, 40mm ID) and ASIN (B0763J9TPX) when seeking assistance.

You can often find additional support resources or contact information on the manufacturer's official website or through the point of purchase.

