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NDZZQBPGO BK1212

NDZZQBPGO BK1212 Drawn Cup Needle Roller Bearing Instruction Manual

Model: BK1212 | Brand: NDZZQBPGO

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the NDZZQBPGO BK1212 Drawn Cup Needle Roller Bearing. Adhering to these instructions will help ensure optimal performance and extend the service life of the bearing.
The BK1212 is a drawn cup needle roller bearing with a caged design and one closed end, designed for applications requiring high load capacity within a compact radial space. Its dimensions are 12 mm inner diameter, 18 mm outer diameter, and 12 mm width.

2. Safety Information

Always prioritize safety during handling, installation, and maintenance. Failure to follow safety precautions can result in injury or damage to equipment.

- Wear appropriate Personal Protective Equipment (PPE), including safety glasses and gloves.
- Ensure machinery is de-energized and locked out before beginning any installation or maintenance work.
- Handle bearings with clean hands or gloves to prevent contamination.
- Avoid dropping or impacting the bearing, as this can cause internal damage.
- Keep work areas clean and free of debris.

3. Installation

Proper installation is critical for the bearing's performance and longevity. The BK1212 bearing is designed for press-fit installation.

3.1 Preparation

- **Cleanliness:** Ensure the shaft and housing bores are thoroughly clean and free from burrs, dust, or foreign particles.
- **Inspection:** Verify that the shaft and housing dimensions meet the required tolerances for a proper interference fit.
- **Lubrication:** Apply a thin film of clean, compatible lubricant to the bearing's outer surface and the housing bore before installation to aid insertion and prevent damage.

3.2 Mounting Procedure

Use a hydraulic press or a suitable mounting tool for installation. Never use a hammer directly on the bearing.

1. Align the bearing squarely with the housing bore.
2. Apply steady, even pressure to the face of the drawn cup using a press tool that contacts the entire end face of the bearing.
3. Press the bearing into the housing until it is fully seated. Ensure it is not cocked or misaligned.
4. For applications requiring a closed end, ensure the closed end faces the direction where sealing or axial location is required.



Figure 1: An image of the NDZZQBPGO BK1212 Drawn Cup Needle Roller Bearing. The bearing features a thin-walled, drawn outer cup, needle rollers, and a cage. One end of the bearing is closed, providing a sealing function and axial location. The bearing is metallic silver in color.

4. Operation

Once installed, the bearing is designed for continuous operation within its specified load and speed limits. Monitor the bearing during initial operation and periodically thereafter.

- **Load Capacity:** Do not exceed the bearing's dynamic and static load ratings. Overloading can lead to premature failure.
- **Temperature:** Operate within the recommended temperature range for the bearing and its lubricant. Excessive heat can degrade lubricant and damage the bearing.
- **Vibration and Noise:** Unusual vibration or noise during operation may indicate a problem and should be investigated immediately.

5. Maintenance

Regular maintenance is essential to maximize bearing life and ensure reliable performance.

5.1 Inspection

- Periodically inspect the bearing for signs of wear, corrosion, or damage.
- Check for proper lubrication.
- Monitor for any changes in operating noise, vibration, or temperature.

5.2 Lubrication

The BK1212 bearing typically comes pre-lubricated. For applications requiring relubrication, consult a bearing lubrication guide for appropriate lubricant types and intervals based on operating conditions.

- Use only clean, high-quality grease or oil compatible with needle roller bearings.
- Avoid over-lubrication, which can lead to overheating and seal damage.

5.3 Cleaning

Keep the area around the bearing clean to prevent contaminants from entering the bearing and causing premature wear.

6. Troubleshooting

This section outlines common issues and potential causes. For severe problems, consult a qualified technician.

Symptom	Possible Cause	Action
Excessive Noise/Vibration	Improper installation, insufficient lubrication, contamination, damage, overloading.	Inspect installation, check lubrication, clean, replace if damaged, reduce load.
Overheating	Insufficient lubrication, over-lubrication, excessive load/speed, misalignment.	Check lubrication, verify load/speed, ensure proper alignment.
Premature Wear	Contamination, improper lubrication, overloading, misalignment, vibration.	Ensure cleanliness, use correct lubricant, verify operating conditions, check alignment.

7. Specifications

Attribute	Value
Model Number	BK1212
Brand	NDZZQBPGO
Bearing Type	Drawn Cup Needle Roller Bearing (Caged, Closed One End)
Inner Diameter	12 mm
Outer Diameter	18 mm
Width	12 mm
Item Weight	555 Grams (1.22 pounds)
Package Dimensions	1.18 x 0.79 x 0.39 inches

Attribute	Value
Assembly Required	No
Number of Pieces	1

8. Storage

Proper storage conditions are important to prevent damage and corrosion before installation.

- Store bearings in their original packaging in a clean, dry environment.
- Protect from direct sunlight, extreme temperatures, and high humidity.
- Avoid exposure to corrosive substances or vibrations.

9. Disposal

When the bearing reaches the end of its service life, dispose of it according to local environmental regulations. Bearings are typically made of steel and can often be recycled.

10. Warranty and Support

For warranty information, technical support, or inquiries regarding the NDZZQBPGO BK1212 bearing, please contact your supplier or the manufacturer directly. Keep your purchase receipt for warranty claims.

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