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> External Retaining Ring for Shaft, Steel Plain Finish, 55 mm Shaft Dia, 10 PK, Mfr: M36000.055.0001-A

## MOLLIFII M36000.055.0001-A

### MOLLIFII External Retaining Ring User Manual

Model: M36000.055.0001-A

#### INTRODUCTION

This manual provides essential information for the proper handling, installation, and maintenance of the MOLLIFII M36000.055.0001-A External Retaining Ring. Please read this manual thoroughly before use to ensure safe and effective application.



## PRODUCT OVERVIEW

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The MOLLIFII M36000.055.0001-A is an external retaining ring manufactured from steel with a plain finish. It is designed to be installed into a groove on a shaft, providing a shoulder that retains components on the shaft. This metric-sized ring is suitable for shafts with a 55 mm diameter.

- **System of Measurement:** Metric
- **Material:** Steel
- **Finish:** Plain
- **Ring Type:** External Retaining Ring

## SETUP AND INSTALLATION

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Proper installation is crucial for the retaining ring's function and safety. Always use appropriate retaining ring pliers for installation and removal.

1. **Inspect Components:** Ensure the shaft and groove are clean, free from burrs, and within specified tolerances for the 55 mm shaft diameter and 52 mm groove diameter.
2. **Select Tools:** Use retaining ring pliers with tips that fit securely into the holes of the retaining ring.
3. **Install Ring:**
  - Compress the retaining ring using the pliers, ensuring the tips are fully engaged in the ring's holes.
  - Carefully slide the compressed ring over the end of the shaft until it is positioned directly above the groove.
  - Release the pliers slowly, allowing the ring to expand into the groove.
  - Verify that the ring is fully seated in the groove by rotating it slightly and checking for any gaps.
4. **Safety Precaution:** Wear appropriate eye protection during installation and removal to prevent injury from a dislodged ring.

## OPERATING PRINCIPLES

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Once correctly installed, the external retaining ring functions by creating a positive shoulder against which other components (e.g., bearings, gears) can be positioned. Its inherent spring tension ensures a secure fit within the shaft's groove, preventing axial movement of the retained components.

## MAINTENANCE

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Retaining rings generally require minimal maintenance. However, periodic inspection is recommended, especially in applications subject to vibration, high loads, or corrosive environments.

- **Visual Inspection:** Check for signs of wear, deformation, corrosion, or cracks. A deformed ring may indicate improper installation or excessive load.
- **Replacement:** If a ring shows any signs of damage or deformation, it should be replaced immediately with a new one of the correct size and type. Do not reuse damaged retaining rings.
- **Lubrication:** In some applications, a light coating of grease or oil may be applied to the ring and groove to facilitate installation and prevent corrosion, depending on the operating environment.

## TROUBLESHOOTING

Most issues with retaining rings stem from incorrect installation or selection.

**Table 1: Common Issues and Solutions**

Problem	Possible Cause	Solution
Ring does not seat fully in groove	Groove is dirty or burred; Ring is deformed; Incorrect ring size.	Clean groove; Inspect and replace ring if deformed; Verify correct ring size for shaft and groove.
Ring pops out of groove	Excessive axial load; Incorrect groove dimensions; Ring is fatigued or damaged.	Ensure load does not exceed ring capacity; Verify groove dimensions; Replace ring.
Difficulty installing/removing ring	Incorrect pliers; Ring is misaligned; Groove is too tight.	Use proper retaining ring pliers; Ensure ring is aligned with groove; Check groove dimensions.

## SPECIFICATIONS

Detailed specifications for the MOLLIFII M36000.055.0001-A External Retaining Ring:

**Manufacturer:** MOLLIFII

**Model Number:** M36000.055.0001-A

**System of Measurement:** Metric

**Location Style:** External

**Thickness:** 2 mm

**Fits Shaft Diameter:** 55 mm

**Fits Groove Diameter:** 52 mm

**Fits Groove Width:** 2.15 mm

**Free Inside Diameter:** 50.8 mm

**Clearance Diameter:** 70.2 mm

**Material:** Steel

**Finish:** Plain

**Material Quality Standards:** DIN 471

**Pack Size:** 10 PK (as per product title)

**Product Dimensions:** 2.16 x 1 x 1 inches (approximate, for packaging/shipping)

## WARRANTY INFORMATION

Specific warranty details for this product are not provided in the available information. Please refer to the manufacturer's official website or contact your point of purchase for warranty terms and conditions.

## SUPPORT AND CONTACT

For technical assistance, product inquiries, or further support regarding the MOLLIFII M36000.055.0001-A External Retaining Ring, please contact the manufacturer, MOLLIFII, through their official channels. Contact information may be available on their website or through your product supplier.

