



**Specializing in Metal Seal**

**Adopted by Many Fortune 500 Companies**

**Sealing solution for Extreme Working Conditions**

- Metal O-Ring
- Balanced Metal O-Ring
- Spring Energized Metal O-Ring
- Metal C-Ring
- Spring Energized Metal C-Ring
- Metal V-Ring
- Metal E-Ring

尚固工业  
SONKIT INDUSTRY

## How to Measure a Metal Ring Seal for Replacement?

Measuring a metal seal for replacement involves a few precise steps to ensure that the new seal fits perfectly and performs optimally. Here's a general guideline on how to measure a metal ring seal:

1. **Determine the Type of Seal:** Identify the type of metal ring seal you need to replace (e.g., O-Ring Seal, Metal C-Seal, V-Ring Seal, U-Ring Seal, E-Ring Seal, W-Seal or comma-Ring Seal, . Each type may have specific aspects that need measurement.
2. **Remove the Seal:** Carefully remove the old seal from its seating, ensuring that you do not damage the components or the housing as you remove it. If it's difficult to remove, consider using appropriate tools or solvents that can help in removal without causing damage.
3. **Clean the Seal Area:** Clean the area where the seal was located to ensure accurate measurement and to check for any damage or irregularities in the housing or mating surfaces.
4. **Measure the Inner Diameter:** Using a caliper, measure the inner diameter of the seal. Place the caliper's tips on the inner edge of the seal to get the measurement. Ensure that the caliper is perpendicular to the seal to get an accurate reading.
5. **Measure the Outer Diameter:** Similarly, measure the outer diameter by placing the caliper on the outer edges of the seal.
6. **Thickness Measurement:** Measure the cross-sectional diameter (thickness) of the seal. This is critical as the seal's effectiveness can depend heavily on the correct thickness.
7. **Check the Seal Profile:** Since metal seals can have complex profiles, ensure that the cross-section of the seal is measured correctly. Some seals might have different shapes or features in their cross-section, which should be matched precisely.
8. **Document the Specifications:** Record all these dimensions along with any other relevant details such as material type (if known), operating conditions (temperature, pressure, media), and any visible wear or failure modes of the old seal.

尚固(上海)工业科技有限公司

Sonkit(Shanghai)Industry Technology Co.,Ltd.

地址: 青浦区新金路 123 号 D 栋 电话+86-021-61520360 传真+86-021-61520360 邮箱 [johnny@sonkit.cn](mailto:johnny@sonkit.cn)

网址:[www.sonkitsealing.com](http://www.sonkitsealing.com)



9. **Consult Manufacturer Specifications:** If possible, refer to the manufacturer's specifications for the seal. This can help confirm the required dimensions and suitable material type for the replacement seal.
10. **Ordering the Seal:** Provide these measurements and specifications to a seal manufacturer or supplier to obtain a suitable replacement. If in doubt, discuss your findings with a sealing expert to ensure compatibility and performance.

Contact Sonkit today to discuss your sealing needs, and visit [SonkitSealing.com](http://SonkitSealing.com) for the latest updates and innovations in metal ring seals. Send your inquiry to sales: [johnny@sonkit.cn](mailto:johnny@sonkit.cn), and let us help you find the best-fit sealing solution.

-  **Specializing in Metal Seal**
-  **Adopted by Many Fortune 500 Companies**
-  **Sealing solution for Extreme Working Conditions**

• Metal O-Ring • Balanced Metal O-Ring • Spring Energized Metal O-Ring • Metal C-Ring • Spring Energized Metal C-Ring • Metal V-Ring • Metal E-Ring





---

尚固(上海)工业科技有限公司

Sonkit(Shanghai)Industry Technology Co.,Ltd.

地址: 青浦区新金路 123 号 D 栋 电话+86-021-61520360 传真+86-021-61520360 邮箱 [johnny@sonkit.cn](mailto:johnny@sonkit.cn)

网址:[www.sonkitsealing.com](http://www.sonkitsealing.com)