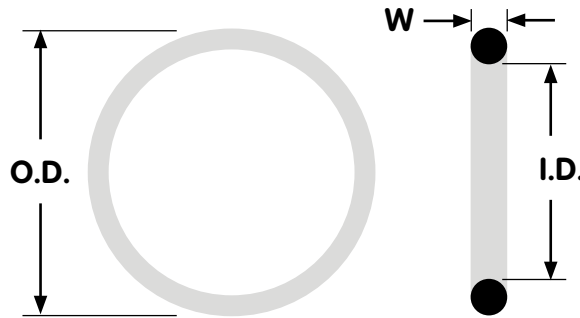




How To Measure an O-ring



O-rings are round mechanical seals that keep gas or liquid from passing through an opening. Over time, these seals may wear out and require replacement. If you are planning to replace an o-ring, a good fit is critical. Also remember o-rings are measured in **millimetres (mm)**.

- 🕒 Place the o-ring on a **clean, flat, level surface**.
- 🕒 Determine the inside diameter. Use a ruler to measure from one inner edge to another.
- 🕒 To measure the outside diameter, use a ruler to measure from one outer edge to the other of the o-ring.
- 🕒 Measure the cross section. Place the o-ring into a vernier calliper. Lightly clamp the jaws of the calliper onto the o-ring, **but do not clamp too tight to avoid displacement**.

You can determine the third diameter of the O-ring with 2 diameters using the following equation:

Outside Diameter (OD) = Inside Diameter + (2 x Cross Section).

Inside Diameter (ID) = OD - (2 x Cross Section).

Cross Section (CS) = (OD - ID) ÷ 2.

- 🕒 If the o-ring is cut, measure the cross section (thickness) of the o-ring and the length.

Convert Length to Inside Diameter: Length ÷ 3.142 = Circumference.
Circumference - Cross Section = ID.

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