



TIMKEN

MORE SIZES, NEW CHOICES, SAME TIMKEN



FULL LINE OF TIMKEN SEALS PROVIDES COMPLETE SOLUTION

Timken features an expanded range of small- and large-bore seals in both inch and metric sizes. We are building on our legacy of high quality seal products offered to both industrial OE and aftermarket segments. Our seal products harness more than 50 years of design, material science, manufacturing, testing and after-sales service of many types of sealing products.

We help you protect your valued machinery, increase uptime and minimize plant downtime. When combined with our full portfolio of products – bearings, seals, gears, belts, chain and related products – we deliver a comprehensive offering across a wide range of industries and applications.

So when you pull that seal out of the Timken box, know it's tested, proven and will operate consistently. That's what makes Timken stronger.

Size ranges

small-bore up to 13 in (300 mm)
large-bore up to 90 in (2,286 mm)

Materials

Nitrile and Fluoroelastomer

Temperature Ranges

Nitrile up to 248°F (120°C)
Fluoroelastomer up to 482°F (250°C)

Max Surface Speeds

small-bore up to 3000 fpm (15 mps)
large-bore up to 7,000 fpm (35.6 mps)

**Consult catalog for exact product specifications*

TIMKEN® SMALL-BORE METRIC SEALS

IMPORTANT CONSIDERATIONS WHEN CHOOSING AND USING SMALL-BORE METRIC SEALS

Operating conditions: Match operating parameters to design limits of the seal including shaft speed, pressure, and eccentricity.

Shaft and bore configurations:

Optimum seal performance is dependent on shaft and bore tolerance, lead-in chamfers, finishes and hardness.

Application requirements for lip, case and seal material:

- Nitrile has good abrasion and chemical resistance to standard oils, greases and normal fuels.
- Fluoroelastomer has high temperature resistance and is also resistant to a variety of chemicals and acidic solutions.

METRIC OIL SEAL MODEL TYPE



RLS35 Single Lip Seal Design

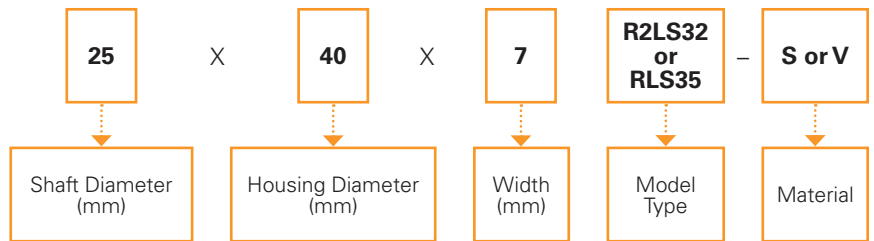
- Rubber outside diameter (O.D.) on seal can conform to minor imperfections in the housing bore surface.
- Spring loaded main sealing lip retains lubricant.



R2LS32 Double Lip Seal Design

- Rubber outside diameter (O.D.) on seal can conform to minor imperfections in the housing bore surface.
- Spring loaded main sealing lip retains lubricant.
- Secondary dust lip assists in excluding contaminants.

NOMENCLATURE



EXTENDED RANGE OF SEALS

Timken® Small-Bore Industrial Seals – sizes up to 13 in (300 mm)

- Oil and Grease Seals (inch and metric)
- O-Ring Seal Kits
- Installation Tools
- Redi-Seals® – custom made and produced in 24 hours
- Redi-Sleeves – fast, inexpensive repair options for worn shafts
- V-Seals™
- Wear Sleeves – press fits on shaft to deter damage
- Zero Duplication™ Program

High-Performance Industrial Seals and Bearing Isolators

- Large-Bore Oil Seals
- Excluder Seals
- Non-Contact Bearing Isolators (metallic and non-metallic)
- Non-Metallic Bearing Isolators for Electric Motors

Contact your Timken Sales Engineer for interchange and other detailed information.

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, gears, belts, chain and related mechanical power transmission products and services.

Stronger. By Design.

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The Small Bore Metric Seal catalog is available at timken.com/catalogs. View the PDF catalog on the website or download the Timken catalog app.