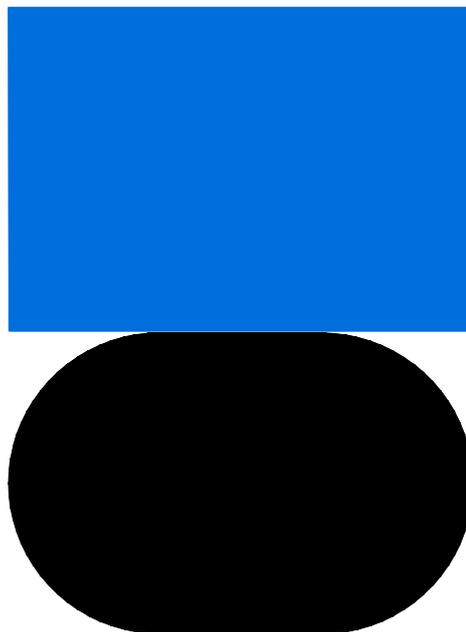




O.L. Seals A/S

Piston Seals

Kefloy SlipRing® Type 2532-



Double acting piston seal for reciprocating movements.

Recommended for light applications.

Offers excellent wear resistance and low friction.



SlipRing® Type 2532-

Is a double acting piston seal consisting of an outer sliding part of Kefloy® energized by a rubber O-Ring. SlipRing® is pressure responsive. SlipRing® can be used with a great variety of fluids. Kefloy® is compatible with virtually all fluids. SlipRing® type 2532- is available in Standard series, Light Duty series and Heavy Duty series.



Working Range

Pressure

Up to 20 MPa. For pressures exceeding 20 MPa, please contact your O.L. Seals distributor.

Temperature

-50°C to + 200°C. For temperatures exceeding this temperature range, please contact your O.L. Seals distributor.

Velocity

Reciprocating up to 15 m/sec. Frequency: Up to 5 HZ. Should not be used for rotating or oscillating applications.

Fluids

Kefloy® is compatible with virtually all fluids – liquids as well as gases. By selecting the right compound for the O-Ring energizer, it is possible to cover almost all fluids.

Advantages

- Good wear resistance
- Low friction
- No stick-slip

- Simple groove design
- Available for all diameters up to 2.500 mm
- Compatible with virtually all fluids

Material Selection Guide

| Fluid | Mating surface | SlipRing® compound |
|------------------------|---------------------|--------------------|
| Hydraulic oil | Steel | Kefloy® 13 |
| Motor oil | Steel, hardened | Kefloy® 32 |
| Grease | Chrome plated steel | |
| Other mineral oils | Cast iron | |
| Water | Aluminium | Kefloy® 22 |
| Water hydraulic | Stainless steel | Kefloy® 90 |
| Steam | Bronze | |
| Non lubricating fluids | Soft metals | |
| Air, dry or lubricated | Steel | Kefloy® 22 |
| | Steel, hardened | Kefloy® 28 |
| | Chrome plated steel | Kefloy® 90 |
| | Cast iron | |
| | Aluminium | |
| | Stainless steel | |
| | Bronze | |
| | Soft metals | |

| Fluid | O-Ring compound |
|----------------------------|---|
| Hydraulic oil | |
| Motor oil | NBR (Buna N) |
| Grease | |
| Other mineral oils | At temperatures above 120°C use Viton O-Rings |
| Water, cold | |
| Water hydraulic | |
| Air, dry or lubricated | |
| Water, hot | EPDM |
| Steam | |
| Synthetic hydraulic fluids | Special compounds |

O-Ring manufacturer's recommendation for the actual fluid should always be followed.

For other fluids or sealing surfaces, please consult your O.L. Seals distributor.



Seal Selection Guide

Standard Series

For most double acting applications the Standard Series is the best choice.

Can be used for single acting applications where the fluid is a gas.

Light Duty Series

Where very low friction is required, the Light Duty Series is recommended.

Ordering Example

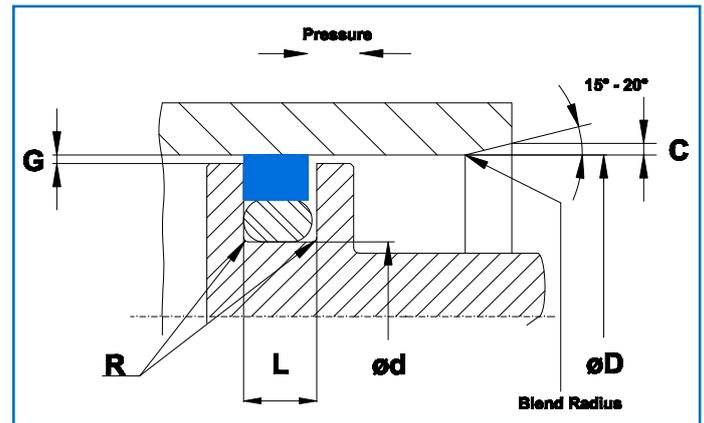
Piston diameter: 236.8 mm

Part no 25324-2368-13N
 SlipRing® Type Series
 Piston dia. x 10
 Compound no
 O-Ring size 215.27 x 7.00
 O-Ring to be ordered separately

Where space limitations make it necessary the light Duty Series should be chosen.

Heavy Duty Series

Where a very long service life is required the Heavy Duty Series should be chosen.



Installation dimensions

Notches

In systems with rapid pressure changes, e.g. power steering systems, it is necessary to furnish the SlipRings® with sidewall notches. The notches ensure a quick seal response to pressure changes.

To order SlipRing® with notches – add suffix “N” behind the compound code.

Example: 25321-0180-22N

| Type No. | Standard Series Piston dia. | Light Series Piston dia. | Heavy Series Piston dia. | d Groove diam. | L Groove width | R Ra- dius | G Radial gap | | | C Cham- fer | B O-ring ID | O-ring Cross section |
|----------|--------------------------------|-----------------------------|-----------------------------|-------------------|-------------------|------------------|--------------------|--------------------|--------------------|-------------------|-------------------|----------------------------|
| | H9 | H9 | H9 | h9 | +0.2 -0 | Max. | 10MPa (100 bar) | 20MPa (200 bar) | 40MPa (400 bar) | Min. | | |
| 25320 | 8-14.9 | 15-39.9 | - | D-4.9 | 2.2 | 0.4 | 0.30 | 0.20 | 0.15 | 0.7 | ød | 1.78 |
| 25321 | 15-39.9 | 40-79.9 | 8-14.9 | D-7.5 | 3.2 | 0.6 | 0.40 | 0.25 | 0.15 | 1.0 | ød | 2.62 |
| 25322 | 40-79.9 | 80-132.9 | 15-39.9 | D-11.0 | 4.2 | 1.0 | 0.40 | 0.25 | 0.20 | 1.3 | ød | 3.53 |
| 25323 | 80-132.9 | 133-329.9 | 40-79.9 | D-15.5 | 6.3 | 1.3 | 0.50 | 0.30 | 0.20 | 2.0 | ød | 5.33 |
| 25324 | 133-329.9 | 330-669.9 | 80-132.9 | D-21.0 | 8.1 | 1.8 | 0.60 | 0.35 | 0.25 | 2.5 | ød | 6.99 |
| 25325 | 330-669.9 | 670-999.9 | 133-329.9 | D-24.5 | 8.1 | 1.8 | 0.60 | 0.35 | 0.25 | 3.0 | ød | 6.99 |
| 25326 | 670-999.9 | ≥1000 | 330-669.9 | D-28.0 | 9.5 | 2.5 | 0.70 | 0.50 | 0.60 | 3.5 | ød | 8.40 |
| 25327 | ≥1000 | | 670-999.9 | D-38.0 | 13.8 | 3.0 | 1.00 | 0.70 | 0.60 | 4.0 | ød | 12.00 |

O-Ring Size

O-Ring cross section according to installation dimensions.

O-Ring I.D. as close to groove dia. d as possible.

O-Ring I.D. not bigger than groove dia. d +3%

O-Ring I.D. not smaller than groove dia. d -5%

Important Note

The limits of pressure, temperature and velocity are individual maximum values. Heat generated by the friction may cause local increase of temperature. The cooling possibilities for the system determines the combinations of maximum values.