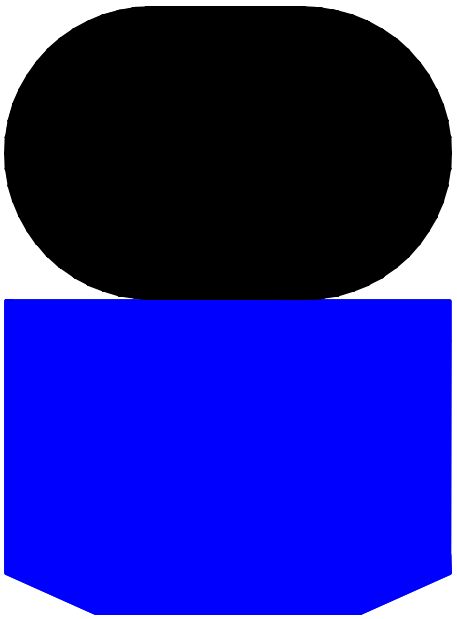
O.L. Seals A/S

Rod Seals

Kefloy SlipRing® Type 2533-



Double acting rod seal for reciprocating movements.

Offers excellent wear resistance and low friction.

SlipRing® Type 2533-

Is a double acting rod 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 2533- is an old design and should not be used for new constructions.

Working Range

Pressure
Up to 80 MPa. For pressures exceeding 40 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 Motor oil Grease Other mineral oils	Steel Steel, hardened Chrome plated steel Cast iron	Kefloy® 13 Kefloy® 32
Water Water hydraulic Steam Non lubricating fluids	Aluminium Stainless steel Bronze Soft metals	Kefloy® 22 Kefloy® 90
Air, dry or lubricated	Steel Steel, hardened Chrome plated steel Cast iron Aluminium Stainless steel Bronze Soft metals	Kefloy® 22 Kefloy® 28 Kefloy® 90

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

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

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

Seal Selection Guide

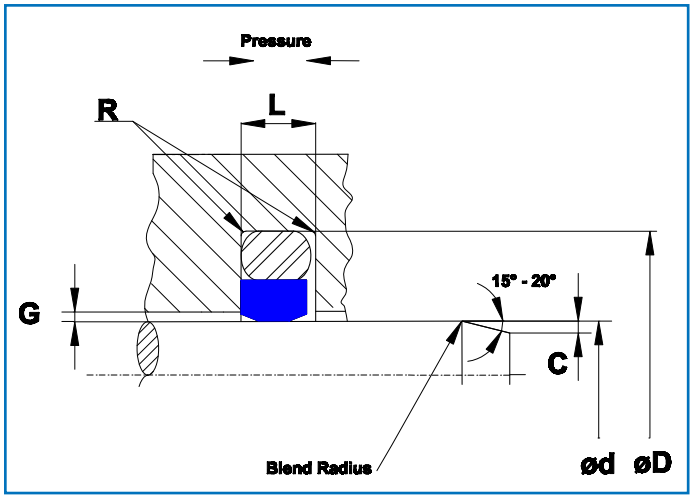
Standard Series
For most double acting applications the Standard Series is the best choice.
Can be used for single acting applications where the fluid is a gas.

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

Ordering Example
Rod diameter: 370 mm

Part no 25336-3700-22
SlipRing® Type
Series
Rod dia. x 10
Compound no
O-Ring size 380.37 x 7.00
O-Ring to be ordered separately



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: 25334-2900-13N

Type No.	Standard Series Rod dia.	D Groove diam.	L Groove width	R Radius	G Radial gap			C Chamfer	B O-ring ID	O-ring Cross section
	f8/h9	H9	+0.2 -0	Max.	10MPa (100 bar)	20MPa (200 bar)	40MPa (400 bar)	Min.		
25330	3-9.9	d+4.00	2.0	0.5	0.30	0.20	0.15	0.7	d+1.0	1.78
25331	10-17.9	d+6.00	2.85	0.5	0.40	0.25	0.15	1.0	d+1.5	2.62
25332	18-37.9	d+7.50	3.8	0.8	0.40	0.25	0.20	1.3	d+1.5	3.53
25333	38-110.0	d+12.50	5.6	1.3	0.50	0.30	0.20	2.0	d+3.0	5.33
25334	115-150.0	d+15.00	7.55	1.5	0.60	0.35	0.25	2.5	d+9.5	6.99
25335	155-230.0	d+18.00	7.55	1.5	0.60	0.35	0.25	2.5	d+9.5	6.99
25336	240-380.0	d+24.00	7.55	1.5	0.70	0.50	0.60	3.0	d+9.5	6.99

O-Ring Size
O-Ring cross section according to installation dimensions.
O-Ring I.D. as close to dia. B as possible.
O-Ring I.D. not bigger than B +3%
O-Ring I.D. not smaller than B -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 dertermines the combinations of maximum values.