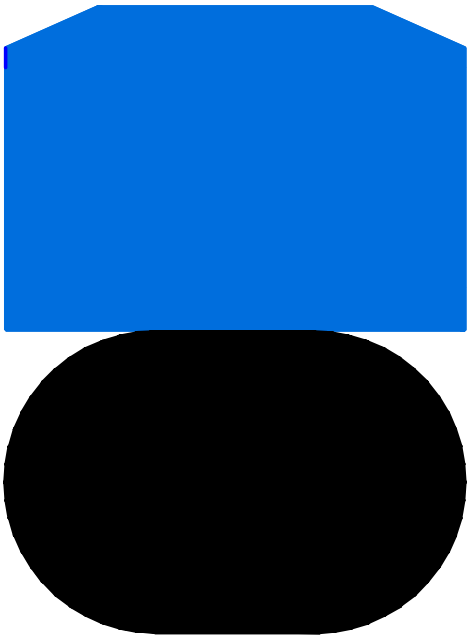
O.L. Seals A/S

Piston Seals

Kefloy SlipRing® Type 2534-



Double acting piston seal for reciprocating movements.

Offers excellent wear resistance and low friction.

SlipRing® Type 2534-

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 2534- 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 Air, dry or lubricated	Aluminium Stainless steel Bronze Soft metals	Kefloy® 22 Kefloy® 90
	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	NBR (Buna N)
Other mineral oils Water, cold Water hydraulic Air, dry or lubricated	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

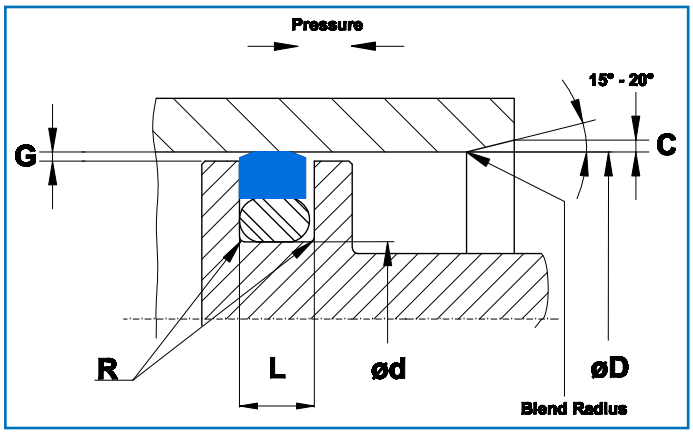
Standard Series
For most double acting applications the Standard Series is the best choice.
Can be used for single acting applications where the fluid is a gas.

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
Piston diameter: 75.4 mm

Part no 25343-0754-22
SlipRing® Type
Series
Piston dia. x 10
Compound no
O-Ring size 62.87 x 5.33
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: 25344-4220-13N

Type No.	Standard Series Piston dia.	D Groove diam.	L Groove width	R Radius	G Radial gap			C Chamfer	B O-ring ID	O-ring Cross section
	H9	h9	+0.2 -0	Max.	10MPa (100 bar)	20MPa (200 bar)	40MPa (400 bar)	Min.		
25340	7-12.9	D – 4.0	2.0	0.5	0.30	0.20	0.15	0.7	ød	1.78
25341	16-25.9	D – 6.0	2.85	0.5	0.40	0.25	0.15	1.0	ød	2.62
25342	27-44.9	D-7.5	3.8	0.8	0.40	0.25	0.20	1.3	ød	3.53
25343	50-125.9	D-12.5	5.6	1.3	0.50	0.30	0.20	2.0	ød	5.33
25344	130-170.9	D-15.0	7.55	1.5	0.60	0.35	0.25	2.5	ød	6.99
25345	180-220.9	D-18.0	7.55	1.5	0.60	0.35	0.25	3.0	ød	6.99
25346	240-410.9	D-24.0	7.55	1.5	0.70	0.50	0.60	3.5	ød	6.99

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 dertermines the combinations of maximum values.