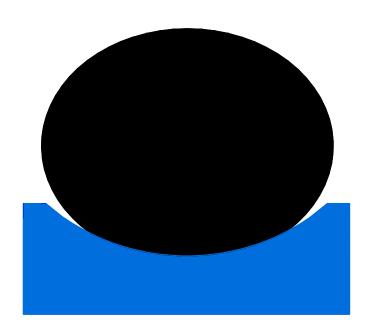


Rod Seals

Kefloy O-Cap® Type 2541-



Double acting rod seal for reciprocating movements.

Consists of a thin ring of Kefloy energized by a rubber O-ring.

Eliminates frictional problems of O-rings.

Designed for British Standard and American Standard O-ring grooves.



Rod Seals

Kefloy O-Cap® Type 2541-



O-Cap® Type 2541-

O-Cap® type 2541 is a double acting rod seal. It uses the same groove dimensions as O-Rings according to British and American standard. It consists of a Kefloy® ring energized by a rubber O-Ring. The O-Cap® is designed to eliminate the frictional - and wear problems, which may occur with rubber O-Rings.

There is a range of O-Caps® for British and American standard O-Rings.



- O-Cap® is pressure responsive.
- O-Cap® for American and British standard O-Ring groove for O-Ring with no back-up rings
- O-Cap® can be used with a great variety of fluids. Kefloy® is compatible with virtually all fluids.
- O-Cap® is designed to replace rubber O-Rings where they cause frictional or wear problems.
- O-Caps® should not be used for new designs.

Working Range

Pressure

Up to 35 MPa. For pressures exceeding 35 MPa, please contact your O.L. Seals distributor.

Temperature

-50°C to + 200°C, though limited by O-ring. 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

- -Fits British standard and American standard O-Ring grooves
- -Small installation dimensions
- -Good wear resistance

- -Low friction
- -No stick-slip
- -Simple groove design
- -Available for all diameters up to 2.500 mm

Material Selection Guide

Fluid	Mating surface	O-Cap® compound			
Hydraulic oil	Steel	Kefloy® 32			
Motor oil	Chrome plated steel				
Grease	Cast iron				
Other mineral oils	Aluminium	Kefloy® 25			
Water	Stainless steel	Kefloy® 90			
Water hydraulic	Bronze				
Steam	Soft metals				
Non lubricating fluids					
Air, dry or lubricated	Steel	Kefloy® 25			
	Chrome plated steel	Kefloy® 28			
	Cast iron	Kefloy® 90			
	Aluminium				
	Stainless steel				
	Bronze				
	Soft metals				

Synthetic hydraulic fluids	Special compound
O-Ring manufacturer's reco actual fluid should always b	

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

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



Rod Seals

Kefloy O-Cap® Type 2541-



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

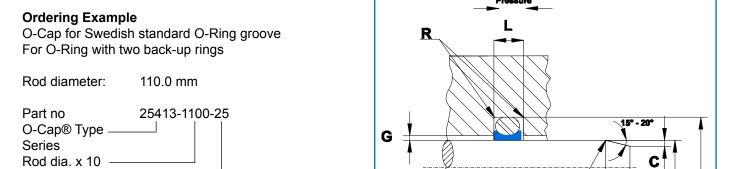
Where very low friction is required, the Light Duty

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.



Installation Dimensions

O-Ring size 110.49 x 5.33
O-Ring to be ordered separately

Notches

Compound no —

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

To order O-Cap® with notches – add suffix "N" behind the compound code. Example:25413-1100-25N.

Bland Radius

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.	2MPa (20 bar)	10MPa (100 bar)	20MPa (200 bar)	35MPa (350 bar)	Min.		
25410	4-9.9	d+2.90	2.40	0.4	0.10	0.10	0.08	0.05	0.70	d+0.0	1.78
25411	10-19.9	d+4.50	3.60	0.4	0.15	0.15	0.10	0.07	1.00	d+0.5	2.62
25412	20-39.9	d+6.20	4.80	0.6	0.25	0.20	0.15	0.08	1.30	d+0.5	3.53
25413	40-119.9	d+9.40	7.10	0.8	0.35	0.25	0.20	0.10	2.00	d+1.0	5.33
25414	120-649.9	d+12.20	9.50	0.8	0.50	0.30	0.25	0.15	2.50	d+1.0	6,99

O-Ring Size

O-Ring cross section according to installation dimensions.

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

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

O-Ring I.D. not smaller than 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.