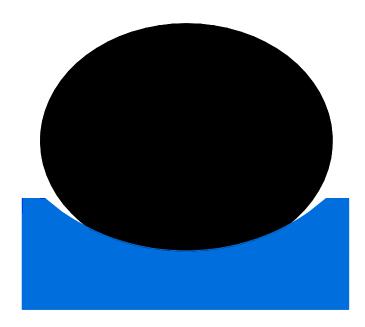


Rod Seals Kefloy O-Cap® Type 2543-



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.





O-Cap® Type 2543-

O-Cap® type 2543- is a double acting rod seal. It uses the same groove dimensions as O-Ring + 1 Buck-Up Ring 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.

O-Cap® is pressure responsive.

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.

Advantages

-Fits British standard and American standard O-Ring grooves

- -Small installation dimensions
- -Good wear resistance

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.

- -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 Kefloy® 90			
Water	Stainless steel				
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				

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.

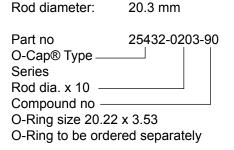
Can be used for single acting applications where the fluid is a gas.

Light Duty Series

Where very low friction is required, the Light Duty

Ordering Example

O-Cap for British and American standard O-Ring groove for O-Ring with one back-up ring.

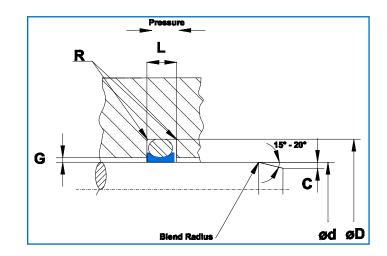


Series is recommended.

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

Notches

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: 25432-0203-90N.

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	Max.	2MPa	10MPa	20MPa	35MPa	Min.		
			-0		(20 bar)	(100 bar)	(200 bar)	(350 bar)			
25430	4-9.9	d + 2.90	3.80	0.4	0.10	0.10	0.08	0.05	0.70	d+0.0	1.78
25431	10-19.9	d + 4.50	4.60	0.4	0.15	0.15	0.10	0.07	1.00	d+0.5	2.62
25432	20-39.9	d +6.20	5.70	0.6	0.25	0.20	0.15	0.08	1.30	d+0.5	3.53
25433	40-119.9	d+9.40	8.50	0.8	0.35	0.25	0.20	0.10	2.00	d+1.0	5.33
25434	120-649.9	d+12.20	11.20	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+1 as possible.

O-Ring I.D. not bigger than (d+1) +3%

O-Ring I.D. not smaller than (d+1) -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.