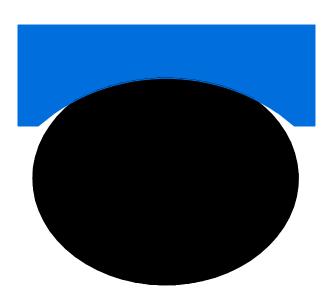


Piston Seals

Kefloy O-Cap® Type 2542-



Double acting piston 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.



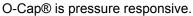
Piston Seals

Kefloy O-Cap® Type 2542-



O-Cap® Type 2542-

O-Cap® is a double acting piston seal using the same groove dimensions as an O-Ring. 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® 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.
- O-Cap® for British and American standard O-Ring groove for O-Ring with no back-up rings.



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
- -Compatible with virtually all fluids

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					
Water	Aluminium	Kefloy® 25			
Water hydraulic	Stainless steel	Kefloy® 90			
Steam	Bronze				
Non lubricating fluids	Soft metals				
Air, dry or lubricated	Steel	Kefloy® 25			
	Chrome plated steel	Kefloy® 28			
	Cast iron	Kefloy® 90			
	Aluminium				
	Stainless steel				
	Bronze				
	Soft metals				

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°0				
Water, cold	use Viton O-Rings				
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.



Piston Seals

Kefloy O-Cap® Type 2542-



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, Light Duty Se-

ries 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.

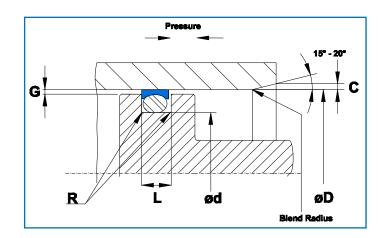
Ordering Example

O-Cap® for Swedish standard O-Ring groove For O-Ring with two back-up rings

Piston diameter: 112.9 mm

Part no 25423-1129-32
O-Cap® Type Series
Piston dia. x 10

O-Ring to be ordered separately



Installation Dimension

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: 25423-1129-32N.

Type No.	Standard Series Bore diam	d Groove diam.	L Groove width	R Radius	G Radial gap				C Chamfer	O-ring Cross section
	Н9	h9	+0.2 -0	Max.	2MPa (20 bar)	10MPa (100 bar)	20MPa (200 bar)	35MPa (350 bar)	Min.	
25420	5-13.9	D-2.90	2.40	0.4	0.10	0.10	0.08	0.05	1.40	1.78
25421	14-24.9	D-4.50	3.60	0.4	0.15	0.15	0.10	0.07	1.80	2.62
25422	25-45.9	D-6.20	4.80	0.6	0.25	0.20	0.15	0.08	2.40	3.53
25423	46-124.9	D-9.40	7.10	0.8	0.35	0.25	0.20	0.10	3.20	5.33
25424	125-669.9	D-12.20	9.50	0.8	0.50	0.30	0.25	0.15	4.00	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.