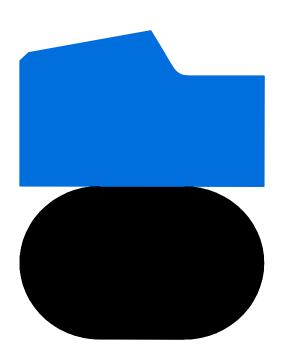


Piston Seals

Kefloy SharpSeal® Type 2512-



Very efficient single acting piston seal for reciprocating movements.

The design of the seals concentrate the sealing force at the sealing edge.

Offers excellent leakage control over the whole pressure range.



Piston Seals

Kefloy SharpSeal® Type 2512-



SharpSeal® Type 2512-

Is a very efficient SINGLE ACTING piston seal. The design of the seal concentrates the sealing forces on the sealing edge. This ensures an excellent leakage control over the whole pressure range. The sealing edge virtually scrapes the sealing surface dry. Where a completely dry sealing surface is required, it is possible to install SharpSeals® in tandem. The SharpSeal® ensures automatic pressure relief between the two seals. Ventilation between the seals is not necessary.



SharpSeal® consists of an outer sliding part of Kefloy® energized by a rubber O-Ring. Sharp-Seal® is pressure responsive.

SharpSeal® can be used with a great variety of fluids. Kefloy® is compatible with virtually all fluids.

SharpSeal® type 2512- is available in Standard series, Light Duty series and Heavy Duty series.

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. SharpSeal® 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

- -Very good sealing efficiency
- -Good wear resistance
- -Low friction
- -No stick-slip

- -Simple groove design
- -Compatible with virtually all fluids
- -Available for all diameters up to 2.500 mm

Material Selection Guide

Fluid	Mating surface	SharpSeal® com- pound			
Hydraulic oil	Steel	Kefloy® 13 Kefloy® 85			
Motor oil	Chrome plated steel				
Grease	Cast iron				
Other mineral oils					
Water	Aluminium	Kefloy® 22			
Water hydraulic	Stainless steel	Kefloy® 90			
Steam	Bronze				
Non lubricating fluids	Soft metals				
Air, dry or lubricated	Steel	Kefloy® 22			
	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, 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 SharpSeal® Type 2512-



Seal Selection Guide

Standard Series

For most single acting applications the Standard Series installed in tandem is the best choice.

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.

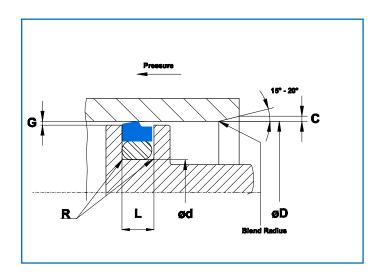
Ordering Example

Piston diameter: 663.7 mm

Part no 25125-6637-13
SharpSeal® Type Series
Piston dia. x 10
Compound no
O-Ring size 633.48 x 7.00
O-Ring to be ordered separately

Heavy Duty Series

Where a very long service life is required the Heavy Duty Series should be chosen.



Installation dimensions

Type No.	Standard Series Piston dia.	Light Series Piston dia.	Heavy Series Piston dia.	d Groove diam.	L Groove width	R Ra- dius		G Radial gap		C Cham- fer	B O-ring ID	O-ring Cross section
	Н9	Н9	Н9	h9	+0.2 -0	Max.	10MPa (100 bar)	20MPa (200 bar)	40MPa (400 bar)	Min.		
25120	8-16.9	17-26.9	-	D-4.9	2.2	0.4	0.30	0.20	0.15	0.7	ød	1.78
25121	17-26.9	27-59.9	8-16.9	D-7.3	3.2	0.6	0.40	0.25	0.15	1.0	ød	2.62
25122	27-59.9	60-199.9	17-26.9	D-10.7	4.2	1.0	0.40	0.25	0.20	1.3	ød	3.53
25123	60-199.9	200-255.9	27-59.9	D-15.1	6.3	1.3	0.50	0.30	0.20	2.0	ød	5.33
25124	200-255.9	256-649.9	60-199.9	D-20.5	8.1	1.8	0.60	0.35	0.25	2.5	ød	6.99
25125	256-669.9	650-999.9	200-255.9	D-24.0	8.1	1.8	0.60	0.35	0.25	2.5	ød	6.99
25126	670-999.9	≥ 1000	256-649-9	D-27.3	9.5	2.5	0.70	0.50	0.60	3.0	ød	8.40
25127	≥1000		650-999.9	D-38.0	13.8	3.0	1.00	0.70	0.60	3.5	ød	12.00

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.