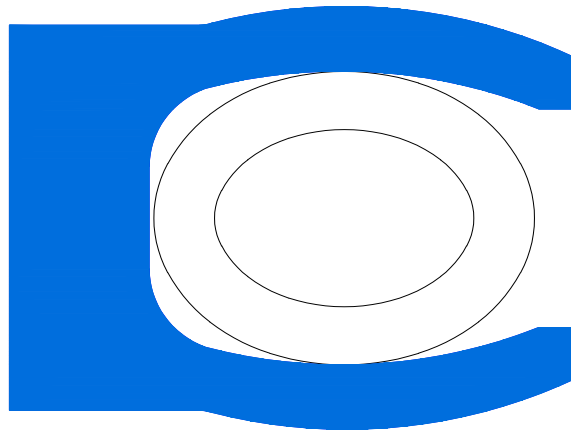




O.L. Seals A/S

# Spring Energized Rod Seals

MupuSeal® R Type 3061-





### MupuSeal® R Type 3061-

Is a single acting spring energized rod seal for static and semi dynamic applications. MupuSeal® R consists of jacket of Kefloy® energized by a spiral spring.



The steel spring is available in three different chemical resistant alloys.

- Stainless steel                   AISI 301; DIN 1.4310
- Hasteloy™                        C-276; EN ISO 15156; NACE MR-01-75
- Elgiloy™                         ASTM F1058; EN ISO 15156; NACE MR-01-75

Hasteloy™ is a trademark of Haynes International Inc.  
Elgiloy™ is a registered trademark of Elgiloy Specialty Metals

MupuSeal® R has symmetric sealing lips. The helical wound spring gives a high spring force which ensures excellent sealing capacity. MupuSeal® R is excellent for static applications and applications with a very little movement.  
MupuSeal® can be used with virtually all fluids.  
MupuSeal® is pressure responsive.

### Working Range

#### Pressure

Up to 80 MPa in standard execution. For pressures exceeding 80 MPa, please contact your O.L. Seals distributor.

#### Temperature

-120°C to + 260°C. For temperatures exceeding this temperature range, please contact your O.L. Seals distributor.

#### Velocity

Should be used for static or semi static applications only.

#### Fluids

Kefloy® is compatible with virtually all fluids – liquids as well as gases. By selecting the right Alloy for the spring energizer, it is possible to cover almost all fluids.

### Applications

Due to its unique properties MupuSeal is used in a great variety of applications

- Extreme temperatures
- Aggressive environments
- Food and drug
- Offshore
- Chemical processes
- Refrigeration
- Energy
- Electronic
- Machine tools
- Aviation
- Defence



## Advantages

- Very good sealing efficiency
- Compatible with virtually all fluids
- Covers a very big thermal range
- No contamination of fluids
- Can be sterilised
- No ageing
- No vulcanisation to mating surface
- Unlimited shelf life
- Simple groove design
- Standard grooves according to ISO 3771 and MIL G 5514F
- NACE compatible spring alloys available
- Available for all diameters up to 2.500 mm

## Material Selection Guide

Fluid	Mating surface	MupuSeal® compound
Water	Steel	Kefloy® 25
Water hydraulic	Chrome plated steel	Kefloy® 28
Steam	Cast iron	Kefloy® 40
Non lubricating fluids	Aluminium	Kefloy® 90
Air, dry or lubricated	Stainless steel	
	Bronze	
	Soft metals	
	Steel	Kefloy® 13
	Chrome plated steel	Kefloy® 32
	Cast iron	
Hydraulic oil	Aluminium	Kefloy® 25
Motor oil	Stainless steel	Kefloy® 28
Grease	Bronze	Kefloy® 32
Other mineral oils	Soft metals	Kefloy® 40
		Kefloy® 90

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

### Seal Selection Guide

#### Ordering Example

Rod diameter: 98.7 mm

Part no 30614-0987-32-E

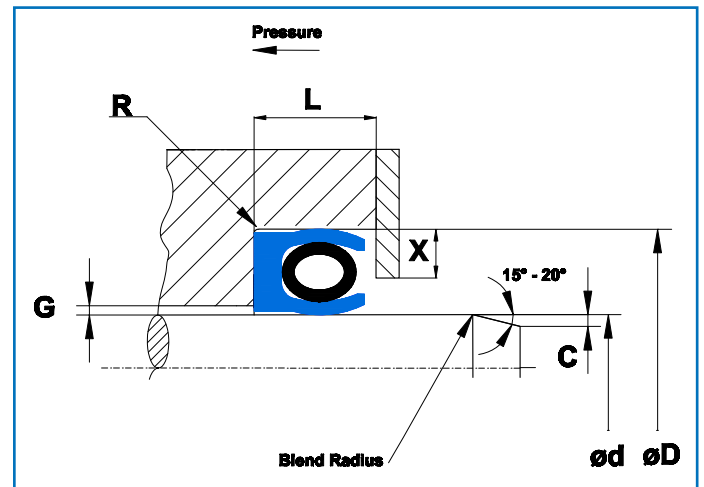
MupuSeal® type

Series

Rod dia. x 10

Jacket compound no

Spring material



#### Installation dimensions for MupuSeal R type 3061- (With standard groove width).

MupuSeal Dynamic Cross section		ød Rod	øD Groove	L	R	X	G Radial gap				Recomm. dia/cross
Part no.	Series	Min. Dia d h9	D H9	+ 0.2 - 0	Max.	Min.	2MPa (20 bar)	10MPa (100 bar)	20MPa (200 bar)	40MPa (400 bar)	
30610	000	3.0	ød+2.90	2.40	0.4	0.4	0.20	0.10	0.08	0.05	3 - 9.99
30611	100	8.0	ød+4.50	3.60	0.4	0.6	0.25	0.15	0.10	0.07	10 - 19.99
30612	200	12.0	ød+6.20	4.80	0.6	0.7	0.35	0.20	0.15	0.08	20 - 39.99
30613	300	20.0	ød+9.40	7.10	0.8	0.8	0.50	0.25	0.20	0.10	40 - 119.99
30614	400	35.0	ød+12.20	9.50	0.8	0.9	0.60	0.30	0.25	0.15	120 - 629.99
30615	500	80.0	ød+19.00	15.00	0.8	1.5	0.90	0.50	0.40	0.20	630-

#### Installation dimensions for MupuSeal R type 3063- (With extended groove width).

MupuSeal Dynamic Cross section		ød Rod	øD Groove	L	R	X	G Radial gap				Recomm. dia/cross
Part no.	Series	Min. Dia d h9	D H9	+ 0.2 - 0	Max.	Min.	2MPa (20 bar)	10MPa (100 bar)	20MPa (200 bar)	40MPa (400 bar)	
30630	000	3.0	ød+2.90	3.80	0.4	0.4	0.25	0.15	0.10	0.07	3 - 9.99
30631	100	8.0	ød+4.50	4.65	0.4	0.6	0.35	0.20	0.15	0.08	10 - 19.99
30632	200	12.0	ød+6.20	5.70	0.6	0.7	0.50	0.25	0.20	0.10	20 - 39.99
30633	300	20.0	ød+9.40	8.50	0.8	0.8	0.60	0.30	0.25	0.12	40 - 119.99
30634	400	35.0	ød+12.20	11.20	0.8	0.9	0.90	0.50	0.40	0.20	120 - 629.99
30435	500	80.0	ød+19.00	20.00	0.8	1.5	0.95	0.60	0.45	0.25	630 -

#### 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.