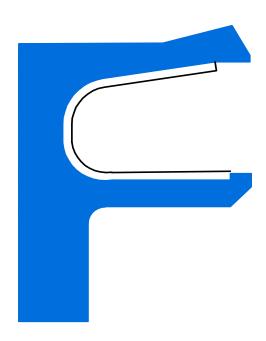


MupuSeal® Roto Type 3032-



Spring energized Piston seal for rotating applications



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MupuSeal® Roto is a single acting spring energized piston seal for rotating applications. MupuSeal® Roto consists of a jacket of Kefloy® energized by a V-shaped corrosion resistant steel spring. The jacket is at the heel furnished with a flange. To prevent the seal from rotating with the piston the flange is clamped into the groove.

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

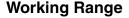
Elgiloy® ASTM F1058; ISO 5832-7; NACE MR-01-75

Hastelloy® is a trademark of Haynes International Elgiloy® is a registered trademark of Elgiloy Specialty Metals

MupuSeal® Roto has asymmetric design of the sealing lips. The thick and strong dynamic outer lip is designed for the rotation against the cylinder. The inner lip is designed to give maximum sealing efficiency against the groove.

MupuSeal® can be used with virtually all fluids.

MupuSeal® is pressure responsive.



Pressure

Up to 25 MPa in standard execution. For pressures exceeding 25 MPa, please contact your O.L. Seals distributor.

Temperature

-100°C to + 260°C. For temperatures exceeding this temperature range, please contact your O.L. Seals distributor.

Velocity

Rotating speed up to 2 m/sec.

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





MupuSeal® Roto Type 3032-



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
- Good wear resistance
- No stick-slip
- 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				
Hydraulic oil	Steel	Kefloy® 32			
Motor oil	Chrome plated steel	Kefloy® 40			
Grease	Cast iron				
Other mineral oils	Aluminium	Kefloy® 25			
	Stainless steel	Kefloy® 28			
	Bronze	Kefloy® 32			
	Soft metals	Kefloy® 40			
		Kefloy® 90			

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



MupuSeal® Roto Type 3032-



Seal Selection Guide

Standard Series

For most applications the Standard Series is the best choice.

Light Duty Series

Where very low friction is required, 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.

Ordering Example

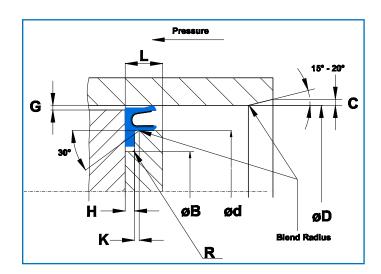
Piston diameter: 65.2 mm

Part no 30321-0652-25-S-(D)

MupuSeal® type
Series
Piston dia. x 10

Jacket compound no
Spring material
Sil-Clean * (Option)

^{*} As an option the spring groove can be filled with silicone. This will make the MupuSeal® easier to clean. The silicone is FDA approved.



Installation dimensions

	eal Rotary section	Ød Rod	øD Groove	ØB	L	Н	R	K	G	Recomm. dia/cross
Part	Series	Min. dia.	Dia.	Dia.	Min.		Max.		Max.	
no.		f8/h9	H9	H10						
30321	100	14.0	ØD-5.0	Ød-9.0	3.6	0.85	0.3	0.8	0.13	14.0 -24.9
30322	200	18.0	ØD-7.0	Ød-12.5	4.8	1.35	0.4	1.1	0.15	25 - 45.99
30323	300	28.0	ØD-10.5	Ød-17.5	7.1	1.80	0.5	1.4	0.17	46 - 124.99
30324	400	45.0	ØD-14.0	Ød-22.0	9.5	2.80	0.5	1.6	0.25	125 -

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.