



# HIGH VACUUM & PRESSURE ROTARY SEALING UNIT



**KOREA**

Ministry of SMEs and Startups | **KBIZ** Korea Federation of SMEs

أديبك | **ADNOC** Host

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## Sealink Products



**Mechanical Seal**  
(RF Type)

**Rotary Union**  
(RU Type)

**Rotary & Linear Feedthrough**  
(RL Type)

### Condition

- High Vacuum
- High Pressure

### Media to be sealed

- Reactive Gas & Liquid
- Inert Gas & Liquid
- Water
- Oil, etc

## Specifications

<b>Motion</b>	Rotary, Linear, Rotary & Linear, Co-Axial, Multi-Axial
<b>Media</b>	Reactive Gas, Inert Gas, Water, Oil and other Liquids
<b>Temperature Range</b>	-20 ~ 150°C (-4 ~ +300°F) without cooling system -20 ~ 400°C (-4 ~ +750°F) with optional cooling system
<b>Leakage Rate in Vacuum</b>	Up to $7.5 \times 10^{-10}$ Pa·m <sup>3</sup> /s by Helium Leakage Detector
<b>Leakage Rate in Pressure</b>	Up to $3.5 \times 10^{-2}$ bar/min, 0.5 psi/min by Nitrogen gas
<b>Vacuum</b>	Max. $10^{-6}$ Torr, Max. $10^{-6}$ Pa
<b>Pressure</b>	Max. 50 bar (PV Limits : Max. 50)
<b>Speed</b>	Max. 15 m/s
<b>Shaft Diameter</b>	ø6 ~ ø1,800 mm
<b>Torque</b>	Depending on the type and customer's application requirements

Sealink also provides customized products to meet the operating conditions of your devices.

## Comparison of Three Types of Sealing Units

Seal Type	Mechanical Seal	Magnetic Seal	Sealink Seal
<b>Theory</b>	Face Contact	Ferrofluid	<b>Nonlinear Contact</b>
<b>Vacuum</b>	X	O	O
<b>Pressure</b>	O	X	O
<b>Gas</b>	X	O	O
<b>Liquid</b>	O	X	O
<b>Lubricant</b>	Required	Not Required	<b>Not Required</b>

All our products are hermetically sealed by our unique sealing technology and operated in dry running condition without buffer fluid reservoir for the lubricants and cooling systems below 150°C/300°F (operable up to 400°C/750°F with optional cooling systems).

And our linear sealing systems do NOT use metallic bellows which result in saving space and cost.

## We have PATENTS!

## Applications

### Petrochemical, Fine Chemical, Marine, Steel and General Machinery Industries

Mixer, Agitator, Reactor Vessel, Stirrer, Crystallizer, Excavators, Dissolving tank, Stern tube, Turbines, Coil Processing Mandrels, Drier etc.

### Semiconductor Equipment, LCD and OLED Industries

CVD, MOCVD, LPCVD, PECVD, PCD, ALD, CMP, OLED, LCD device, FPD device, Wafer handling device, Vacuum deposition system, Ion Implanter, Etcher, Asher, Edge Grinder, Scrubber, RTP, Sputter, Lamp device, Autoclave, Wafer robot, etc.



**Without**  
**LUBRICANT**



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