Mechanical Seals

We offer an extensive range of Mechanical Seals in all sizes and materials. Our range is divided into four main methods of shaft sealing, namely; rubber diaphragm, rubber bellows, O-ring mounted and PTFE wedge seals.

Our range of mechanical seals is designed to service the global pump market. All our seals are totally interchangeable with all other manufacturer’s equivalent seals, without any modification to the existing seals housings and gland plates. We can replace any single spring seal and seat, in most cases, straight from stock.

Material quality is vital to the capability, performance and life of a seal. We only specify superior quality materials. We have heavily invested in even further developing reaction and sintered SIC and Nickel and Cobalt TC sintering processes, so that we can exceed previous single spring seal norms.

This focus on the best quality face materials is standard throughout our mechanical seal range.

Exceptional design capability combined with a company-wide quality ethos, as well as extensive in-house inspection control systems gives us absolute quality, traceability and cost control of our products. This gives you assured consistency of supply, quality and reliability.

We supply all common industry standard Mechanical Seal types and dimensional standards, in addition to providing the largest range of equipment-specific Mechanical Seal replacements for all major global pump manufacturers. Please refer to the next page to see our range.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>STANDARD RECOMMENDATION</th>
<th>TEMP RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrile</td>
<td>For general duties</td>
<td>-30°C to +120°C</td>
</tr>
<tr>
<td>Ethylene Propylene</td>
<td>For general duties especially hot water</td>
<td>-40°C to +140°C</td>
</tr>
<tr>
<td>Viton®</td>
<td>For general chemical applications</td>
<td>-30°C to +230°C</td>
</tr>
<tr>
<td>Neoprene</td>
<td>For refrigeration applications</td>
<td>-50°C to +100°C</td>
</tr>
<tr>
<td>FEP / PFA</td>
<td>For near universal chemical resistance</td>
<td>-60°C to +205/260°C</td>
</tr>
<tr>
<td>Kalrez®</td>
<td>For absolute chemical and temperature capability</td>
<td>-50°C to +310°C</td>
</tr>
</tbody>
</table>

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Our focus on the best quality face materials is standard across our range of mechanical seals.

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**Fig 1.1 Measurements for mechanical seals**
Mechanical Seals

Our range of mechanical seals includes:

**OEM REPLACEMENT SEALS**
UK Seals supplies a large range of seal designs for specific pumps and applications across all industries. We also supply FDA specified complaint materials for all Seals commonly used within the Food and Beverage industry.

**CONICAL O-RING MOUNTED**
Robust design for DIN and standard housing dimensions. Wide choice of face materials, it is suitable for a large variety of applications - pumps, mixers, agitators, compressors and other rotary shaft equipment.

**DIAPHRAGM**
The accommodating single springs and elastomer diaphragms make this type ideal for general and demanding conditions. Highly proficient sealing covering all standard pump shaft working lengths and housing sizes.

**MULTIPLE SPRING**
Balanced and unbalanced Multiple Spring seal range for corrosive and demanding applications. Available as internal component and external Cartridge Seals, as standard with 316SS and triple phenolic carbon.

**WAVE SPRING**
Compact bidirectional seal originally designed for short working length and hygienic requirements, e.g. rotary lobe pumps. Ideal for pumping viscous liquids in the food, dairy, brewery and pharmaceutical industries.

**WATER PUMP**
Cost effective and reliable seal used in high volume water systems, e.g. swimming pools, shower pumps, central heating and irrigation. Designed to improve seal performance and life where water interferes with seal faces.

**STATIONARY SEALS**
Wide range of stationary seals in different styles and materials to help you find the best combination of sealing faces for your application requirements.

**CARTRIDGE MECHANICAL SEALS**
Modular design, balanced, multiple spring, O-Ring mounted cartridge seals with various bolt holes and flush port combinations. Designed for easy installation with gland dimensions for near universal fitting.

**PARALELL O-RING MOUNTED**
Robust design suitable for standard metric and imperial housing sizes. Commonly found in marine, textile, paper, refrigeration, waste water industries and many more.

**ELASTOMERIC BELLows**
Technically efficient and highly versatile. Suitable for virtually any application, especially pumping media containing solids for hygienic applications due to non-clogging, self-adjusting design.

**CONICAL O-RING MOUNTED**
Modular design, balanced, multiple spring, O-Ring mounted cartridge seals with various bolt holes and flush port combinations. Designed for easy installation with gland dimensions for near universal fitting.

**TECHNICAL INFORMATION**
UK Seals supplies a large range of seal designs for specific pumps and applications across all industries. We also supply FDA specified complaint materials for all Seals commonly used within the Food and Beverage industry.

**EASTERN SEALS**
Global Sealing Provider

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