APPLICATION

Link-Seal® mechanical seals are considered to be the premier method for permanently sealing pipes of any size passing through walls, floors and ceilings. In fact, any cylindrical object may be quickly, easily and permanently sealed, as they pass through barriers, by the patented Link-Seal design.

LINK SEAL DATA

Ductile iron, concrete, metal as well as plastic pipes may be hydrostatically sealed within walls to hold up to 20 psig (40 feet of head). Electrical or telecommunications cables may be sealed within conduit as they enter vaults or manholes. The annular space between carrier pipes passing through casings may be sealed against the entry of water, soil or backfill material. With a wide variety of hardware/elastomer combinations, Link-Seal mechanical seals are easily configured to achieve the best possible match for service conditions encountered.

Saves time and money...Link-Seal mechanical seals install in up to 75% less time compared to lead-oakum joints, hand fitted flashings, mastics or casing boots.

Positive hydrostatic seal...Link-Seal mechanical seals are rated at 20 psig (40 feet of head), which exceeds the performance requirements of most applications.

Long seal life...Link-Seal mechanical seals are designed for use as a permanent seal. Seal elements are specially compounded to resist aging and attack from ozone, sunlight, water and a wide range of chemicals.

Maximum protection against corrosion...Standard fasteners with a two-part organic resin coating or corrosion resistant 316 stainless steel.

Certification/Approvals...Factory Mutual Fire Approvals. Det Norske Veritas Marine Deck/Bulkhead Penetration Certification. ANI (American Nuclear Insurers). Also a wide variety of approvals from various Federal agencies, associations, code groups, laboratories and organizations.

ISO Quality Assurance...Link-Seal mechanical seals are manufactured in an ISO 9002 certified facility.

Configure a Link-Seal to match your application...Colour coded EPDM, Nitrile, & Silicone elastomers may be used with various hardware options to match performance characteristics with service conditions.
**Link-Seal Options**

**with EPDM Seal Elements**
- **Model “C” Link-Seal**: Suitable for use in water, direct ground burial and atmospheric conditions. Provides electrical isolation where cathodic protection is required.
  - Type: Standard
  - Seal Element: EPDM (Black)
  - Pressure Plates: Composite
  - Bolts & Nuts: Steel with 2-part Zinc Dichromate & Organic Coating
  - Temp. Range: -40 to +121°C

**with Nitrile Seal Elements**
- **Model “D” Link-Seal**: Nitrile rubber is resistant to oils, fuel and many solvents (gasoline, motor oil, kerosene, methane, jet fuel, hydraulic fluid, water, etc.).
  - Type: Oil Resistant
  - Seal Element: Nitrile (Green)
  - Pressure Plates: Composite
  - Bolts & Nuts: Steel with 2-part Zinc Dichromate & Organic Coating
  - Temp. Range: -40 to +90°C

**with Silicone Seal Elements**
- **Model “T” Link-Seal**: Silicone rubber is ideal for temperature extremes.
  - Type: High/Low Temperature
  - Seal Element: Silicone (Grey)
  - Pressure Plates: Steel Zinc Dichromate
  - Bolts: Steel with 2-part Zinc Dichromate & Organic Coating
  - Temp. Range: -55 to +204°C

**Model “FDS/FDS” Link-Seal**: Double seal for added protection.
- Type: Fire Seals
- Seal Element: Silicone (Grey)
- Pressure Plates: Steel Zinc Dichromate
- Bolts: Steel with 2-part Zinc Dichromate & Organic Coating
- Temp. Range: -55 to +204°C

**Link-Seal Specifications and Dimensional Data**

<table>
<thead>
<tr>
<th>Property</th>
<th>ASTM Method</th>
<th>EPDM</th>
<th>Nitrile</th>
<th>Silicone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Range</td>
<td>-40 to +250°C</td>
<td>-40 to +210°C</td>
<td>-57 to +400°C</td>
<td>-57 to +204°C</td>
</tr>
<tr>
<td>Hardness (shore A)</td>
<td>D-2240</td>
<td>41.33</td>
<td>50.35</td>
<td>50.35</td>
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<tr>
<td>Tensile Strength</td>
<td>D-412</td>
<td>1450 psi</td>
<td>1000 psi</td>
<td>800 psi</td>
</tr>
<tr>
<td>Elongation</td>
<td>D-412</td>
<td>400%</td>
<td>300%</td>
<td>250%</td>
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<tr>
<td>Compression Set</td>
<td>S-356</td>
<td>75%</td>
<td>60%</td>
<td>40%</td>
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<tr>
<td>Specific Gravity</td>
<td>D-257</td>
<td>1.10</td>
<td>1.42</td>
<td>1.40</td>
</tr>
</tbody>
</table>

**Material Properties of Composite Pressure Plates**

<table>
<thead>
<tr>
<th>Property</th>
<th>ASTM Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Izod Impact - Notched</td>
<td>D-256</td>
<td>2.95 ft.lbf/in</td>
</tr>
<tr>
<td>Tensile Strength @ Yield</td>
<td>D-656</td>
<td>20,000 psi</td>
</tr>
<tr>
<td>Flexural Strength @ Yield</td>
<td>D-760</td>
<td>30,750 psi</td>
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<tr>
<td>Modulus</td>
<td>D-760</td>
<td>1,244,000 psi</td>
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<tr>
<td>Elongation Break</td>
<td>D-435</td>
<td>11.07%</td>
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<tr>
<td>Specific Gravity</td>
<td>D-792</td>
<td>1.38</td>
</tr>
</tbody>
</table>
| Moisture Content    | --     | 0.18%

**Bolt & Nut Specifications**

- **Standard**: Carbon Steel
- Tensile Strength: 74,000 psi, min.
- Plating: Yellow zinc dichromate per ASTM B833
- **Option**: Stainless Steel
- ANSI Type: 316
- Tensile Strength: 85,000 psi, average.

Performance data and technical information provided herein is intended for guideline purposes only. Suitability of product configurations for specific applications should be determined by the user.