COMPANY INTRODUCTION

Fenghua Zhongli Seals Co., Ltd. is a manufacturer specialized in design, producing and sale mechanical seals and sealing materials. Company was established in 1993 and covering 19500 square meters. We have complete production lines of mechanical seals and sealing material of silicon carbide and graphite. Annual production ability is exceed 2 million sets.

We have developed many series mechanical pump seals and cartridge seals, applied in petrochemical, food, automobile and mechanical industry etc. Products designed to meet DIN24960 and ISO3647 standards. We have passed ISO9001 quality management system, to ensure that the quality control strictly. Products sold to domestic and oversea markets, and have a strong sales and technical service support.

Reasonable price, good service and timely delivery, makes us more competitive in the international and domestic markets, to provide better guarantee of product quality.
Mechanical Seals Contents

ZL31/312/313/320

ZL31/312/313/320 Equivalent to Burgmann MG1/MG12/MG13/MG15/320
ZL370/374 Equivalent to Burgmann MP/MP74
ZL330/330/337/337/22 Equivalent to Burgmann MG3/MG32/MG37/MG37/22
ZL765/H75/H75/H76 Equivalent to Burgmann H7AH175/H76
ZLMT4/DH74/D Equivalent to Burgmann MD4/DH74/D
ZL392/392 Equivalent to Burgmann M200/H797/2N
ZLNN3 Equivalent to Burgmann RN/NN3, Retain Type 2
ZL21/360/BA Equivalent to John Crane Type 211
ZL21/360/BA Equivalent to John Crane Type 1/1A
ZL2 Equivalent to John Crane Type 2
ZL301 Equivalent to BT-Burgmann AR
ZL6A Equivalent to John Crane BA
ZL6 Equivalent to John Crane Type 6, US Type A
ZL155 Equivalent to BT-Burgmann FN
ZL502 Equivalent to John Crane Type 502
ZL2100 Equivalent to John Crane Type 2100
ZL880/880/880/880/880/880/880/880 Equivalent to John Crane Type 880/888/880/888/880/888/880/888 Equivalent to John Crane Type 88R
ZL882/882/882/882/882/882/882/882 Equivalent to John Crane Type 88R
ZL884/884/884/884/884/884/884/884 Equivalent to John Crane Type 88R
ZL886/886/886/886/886/886/886/886 Equivalent to John Crane Type 88R
ZL888/888/888/888/888/888/888/888 Equivalent to John Crane Type 88R
ZL1001 Equivalent to Burgmann MG12
ZL1002 Equivalent to K-F11002
ZL-YEB Equivalent to John Crane Type 1002
ZL108/208 Equivalent to John Crane Type 108/208
ZL39 Equivalent to Burgmann MG9
ZL100/100/100/100/100/100/100/100 Equivalent to Grundfos Pump Seal
ZL6B Equivalent to Grundfos Pump Seal
ZL-JB01 Equivalent to Burgmann Mtx
ZL-JB02 Equivalent to John Crane SB2
ZL-JB03 Equivalent to John Crane SB2
ZL-JB05 Equivalent to John Crane SB2
ZL-JB06 Equivalent to John Crane Unitex
ZL-JB07 Equivalent to John Crane Cartex
ZL-JB08 Equivalent to John Crane Cartex-GSD
ZL-JB09 Equivalent to John Crane Cartex-GSD
ZL-JB10 Equivalent to John Crane Cartex-GSD
Sealing Materials and Stationary Ring Structure
Silicon Carbide
Tungsten Carbide
Carbon Graphite
Ceramic
**ZLH70/H75/H76**  机械密封 Mechanical Seals

**Operating limits:**
- Shaft size: 10-100 mm
- Pressure: 2.5 MPa
- Speed: 20 m/s
- Temperature: -30°C to +200°C

**Material:**
- Stationary Ring: SiC, Carbon, TC
- Rotary Ring: SiC, Carbon, TC
- Spring & Other Parts: SUS304, SUS316
- Seal Types: G9, G16

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**ZLM74-D/H74-D**  双端面机械密封 Double Mechanical Seal

**Operating limits:**
- Shaft size: 18-200 mm
- Pressure: 1.6 MPa
- Speed: 20 m/s
- Temperature: -20°C to +180°C

**Material:**
- Stationary Ring: SiC, Carbon, TC
- Rotary Ring: SiC, Carbon, TC
- Spring & Other Parts: SUS304, SUS316
- Seal Types: G9, G13, G16, G4
**ZL392/397  机械密封 Mechanical Seals**

**Operating Limits:**
- Shaft size: 18-100mm
- Pressure: 2.5MPa
- Speed: 290rpm
- Temperature: 30°C-200°C

Medium containing solids or with high viscosity, e.g., sugar, paper, sewage, and waste water industry.

Equivalent to Burgmann HJ3271N377GN

**Material:**
- Stationary Ring: SiC, Carbon, TC
- Rotary Ring: SiC, TC
- Secondary Seal: EPDM, Viton
- Spring & Other Parts: SUS304, SUS316
- Seal Types: G16, G46

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**ZLN/N3  机械密封 Mechanical Seals**

**Operating Limits:**
- Shaft size: 10-110mm
- Pressure: 1.0MPa
- Speed: 10rpm
- Temperature: 20°C-260°C

Medium: Clear water, sewage water, oil and weak corrosive fluids.

Equivalent to Burgmann RNRN3, Retainer Type2

**Material:**
- Stationary Ring: SiC, Carbon, SUS304
- Rotary Ring: SUS304, Carbon, SiC, TC
- Secondary Seal: EPDM, Viton
- Spring & Other Parts: SUS304, SUS316
- Seat Types: G9, G13, G9, G4
**ZL21/560/BIA  机械密封 Mechanical Seals**

- **Shaft size:** 12.50mm
- **Pressure:** 1.66MPa
- **Speed:** 1200rpm
- **Temperature:** -30°C to 200°C
- **Material:** Stationary Ring: SIC, Ceramic, TC
- **Material:** Ring: SIC, Carbon, TC
- **Material:** Secondary Seal: NBR, EPDM, Nitrile
- **Material:** Spring: SUS304, SUS316
- **Seat Type:** WN

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**ZL1/1A  机械密封 Mechanical Seals**

- **Shaft size:** 12.50mm
- **Pressure:** 1.66MPa
- **Speed:** 1200rpm
- **Temperature:** -30°C to 200°C
- **Material:** Stationary Ring: SIC, Carbon, TC
- **Material:** Ring: SIC, Carbon, TC
- **Material:** Secondary Seal: NBR, EPDM, Nitrile
- **Material:** Spring: SUS304, SUS316
- **Seat Type:** WN
ZL2  Mechanical Seals

- **Technical Specifications**:
  - Size: 16-120mm
  - 0.625 - 4.000” inch
  - Pressure: 16 MPa
  - Speed: 25 m/s
  - Temperature: 40°C-200°C
  - Suitable for clean water, sewage water, oil, and weak腐蚀性 fluids.
  - Equivalent to John Crane Type 2

- **Operating Limits**:
  - Size: 16-120mm
  - 0.625 - 4.000” inch
  - Pressure: 16 MPa
  - Speed: 25 m/s
  - Temperature: 40°C-200°C

- **Material**:
  - Stationary Ring: SIC, Ceramic, TC
  - Rotary Ring: SIC, Carbon, TC
  - Secondary Seal: NBR, EPDM, Viton
  - Spring & Other Parts: SUS304, SUS316
  - Seat Type: W/N

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ZL301  Mechanical Seals

- **Technical Specifications**:
  - Size: 6-70 mm
  - Pressure: 6.6 MPa
  - Speed: 10 m/s
  - Temperature: 20°C-120°C

- **Operating Limits**:
  - Size: 6-70mm
  - Pressure: 6.6 MPa
  - Speed: 10 m/s
  - Temperature: 20°C-120°C

- **Material**:
  - Stationary Ring: SIC, Ceramic, TC
  - Rotary Ring: Carbon, SIC, TC
  - Secondary Seal: NBR, EPDM, Viton
  - Spring & Other Parts: SUS304, SUS316
  - Seat Type: W/N
ZL6A 机械密封 Mechanical Seals

材料：
静环：氧化硅、氧化锆、氧化铝
动环：氧化硅
第二环：氟橡胶、聚四氟乙烯
O型圈：石墨、石墨纤维
密封圈：氟橡胶

技术参数：
尺寸：3/8” - 1” inch
压力：0.7MPa
速度：15m/s
温度：-30℃ - 200℃
用于淡水泵和搅拌器
等效于John Crane 64

ZL6 机械密封 Mechanical Seals

材料：
静环：氧化硅、氧化锆、氧化铝
动环：氧化硅
第二环：氟橡胶、聚四氟乙烯
O型圈：石墨、石墨纤维
密封圈：氟橡胶

技术参数：
尺寸：3/8” - 1” inch
压力：0.7MPa
速度：10m/s
温度：-30℃ - 120℃
用于淡水泵和搅拌器
等效于John Crane Type 6 US Type A


**ZL155 Mechanical Seals**

- **Technical Data:**
  - Diameter: 10-40 mm
  - Pressure: 1.6 MPa
  - Speed: 15 m/s
  - Temperature: -30°C to 200°C
  - Suitable for clean water, sewage water, and metal-conducting fluids.

- **Materials:**
  - Stationary Ring: SIC,Carbon,TC
  - Rotating Ring: Ceramic, SIC, TC
  - Secondary Seal: NBR, CR, FPM, Viton
  - Spring & Other Parts: SUS304, SUS316

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**ZL502 Mechanical Seals**

- **Technical Data:**
  - Diameter: 14-100 mm
  - Pressure: 4.0 MPa
  - Speed: 15 m/s
  - Temperature: -30°C to 200°C
  - Suitable for clean water, sewage water, oil and metal-conducting fluids.

- **Materials:**
  - Stationary Ring: SIC, Ceramic, TC
  - Rotating Ring: Ceramic, Carbon, TC
  - Secondary Seal: NBR, FPM, Viton
  - Spring & Other Parts: SUS304, SUS316
**ZL WB2**  机械密封 Mechanical Seals

**Design Parameters:**
- Shaft size: 36-65mm
- Pressure: 0.6MPa
- Speed: 11m/s
- Temperature: 20℃-125℃

**Material:**
- Stationary Ring: 99% Ceramic
- Rotary Ring: Filled PTFE, SIC
- Spring & Other Parts: SUS316

**Operation Limits:**
- Shaft size: 36-65mm
- Pressure: 0.6MPa
- Temperature: 20℃-125℃

**ZL1527**  机械密封 Mechanical Seals

**Design Parameters:**
- Shaft size: 25-100mm
- Pressure: 1.0MPa
- Speed: 15m/s
- Temperature: -40℃-180℃

**Material:**
- Stationary Ring: SIC, Carbon, TC
- Rotary Ring: Filled PTFE
- Spring & Other Parts: SUS316

**Operation Limits:**
- Shaft size: 25-100mm
- Pressure: 1.0MPa
- Temperature: -40℃-180℃
**ZLU1001/U1001A**

**Mechanical Seals**

**Technical Parameters:**
- Shaft size: 20-120mm
- Pressure: 1.6MPa
- Speed: 25m/s
- Temperature: -20°C to 150°C

**Operating Limits:**
- Shaft size: 20-120mm
- Pressure: 1.6MPa
- Speed: 25m/s
- Temperature: -20°C to 150°C

**Materials:**
- Stationary Ring: SIC, Carbon, TC
- Rotary Ring: Carbon, SIC, TC
- Secondary Seal: EPDM, Viton
- Spring & Other Parts: SUS304, SUS316

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**ZLU1002**

**Mechanical Seals**

**Technical Parameters:**
- Shaft size: 20-120mm
- Pressure: 1.0MPa
- Speed: 25m/s
- Temperature: -20°C to 150°C

**Operating Limits:**
- Shaft size: 20-120mm
- Pressure: 1.0MPa
- Speed: 25m/s
- Temperature: -20°C to 150°C

**Materials:**
- Stationary Ring: SIC, Carbon
- Rotary Ring: Carbon, SIC, TC
- Secondary Seal: EPDM, Viton
- Spring & Other Parts: SUS304, SUS316
**ZL-YEB**  机械密封  Mechanical Seals

**ZL108/208**  单/双端面机械密封  Single/Double Mechanical Seal

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**Operating Limits:**
- Shaft Size: 12mm, 16mm
- Pressure: 3.0MPa
- Speed: 1500rpm
- Temperature: -20°C to 180°C

**Material:**
- Stationary Ring: SIC, Carbon, T/C
- Rotary Ring: SIC, T/C
- Secondary Seal: BMR, EPDM, Felen
- Spring & Other Parts: SUS304, SUS316

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**Operating Limits:**
- Shaft Size: 9-45mm
- Pressure: 0.5MPa
- Speed: 1500rpm
- Temperature: -20°C to 100°C

**Material:**
- Stationary Ring: SIC, Ceramic, T/C
- Rotary Ring: SIC, Carbon, Ceramic, T/C
- Secondary Seal: BMR, EPDM, Felen
- Spring & Other Parts: SUS304, SUS316
**Operating limits:**
- Shaft size: 16-100mm
- Pressure: 0.8MPa
- Speed: 10m/s
- Temperature: -20°C to 140°C

**Equivalent to Burgmann MG9**

**Material:**
- Stationary Ring: SIC, Ceramic
- Rotary Ring: SIC, Carbon
- Secondary Seal: NBR, EPDM, Viton
- Spring & Other Parts: SUS304, SUS316

**Seat Types:** G50, G55, G60

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**Technical parameters:**
- Size: 22mm, 16mm, 12mm
- Pressure: 2.0MPa
- Speed: 15m/s
- Temperature: -30°C to 150°C

**Applied in Grundfos pumps of CR and CRN series**

**Equivalent to Grundfos Pump Seal**

**Material:**
- Stationary Ring: SIC, Carbon
- Rotary Ring: SIC, Carbon
- Secondary Seal: NBR, EPDM, Viton
- Spring & Other Parts: SUS304, SUS316
ZL-JB01 金属波纹管密封 Metal Bellows Seal

- 操作限值:
  - 轴径: 25-100mm
  - 压力: 0.6MPa
  - 速度: 20m/s
  - 温度: -30°C ~ 204°C

- 材料:
  - 固定环: SiC, TC
  - 活动环: SiC, Carbon, TC
  - 填料: PTFE, FKM, PTFE, Inconel 718, Ti, TZM, Hastelloy
  - 其他: SUS316L, SUS316, Titanium, Hastelloy-C

ZL-JB02 双端面集装式金属波纹管密封 Dual Cartridge Seal

- 操作限值:
  - 轴径: 25-80mm
  - 压力: 2.0MPa
  - 速度: 25m/s
  - 温度: -40°C ~ 250°C

- 材料:
  - 固定环: SiC, TC
  - 活动环: SiC, Carbon
  - 填料: Ptfe, FKM, PTFE, Inconel 718
  - 其他: SUS304, SUS316, Titanium, Hastelloy-C
ZL-JB03 金属波纹管密封 Metal Bellows Seal

ZL-J05 双端面集装式密封件 Dual Cartridge Seal

**ZL-JB03**
- **技术参数**
  - 尺寸: 18~150mm
  - 压力: 2.1MPa
  - 介质: 油、气、蒸汽
  - 温度: -75°C~200°C
  - 应用于: 腐蚀、高温、高压、化学、医药、石油化工

**Operating limits**
- **Shaft size:** 18~150mm
- **Pressure:** 2.1MPa
- **Medium:** Petroleum, chemical, oil refining field.

**Material**
- Stationary Ring: SiC, TC
- Rotary Ring: SiC, Carbon, TC
- Secondary Seal: Viton/FEP, Viton/PTFE
- Metal Bellows: SUS316, AH375, Inconel718
- Spring & Other Parts: SUS304, SUS316, Titanium, Hastelloy-C

**ZL-J05**
- **技术参数**
  - 尺寸: 35~140mm
  - 压力: 1.5MPa
  - 介质: 水、油、蒸汽
  - 温度: -40°C~180°C
  - 应用于: John Crane 502

**Operating limits**
- **Shaft size:** 35~140mm
- **Pressure:** 1.5MPa
- **Medium:** Water, oil, steam
- **Temperature:** -40°C~180°C

**Material**
- Stationary Ring: SiC, Carbon
- Rotary Ring: SiC, Carbon
- Secondary Seal: Viton, PTFE
- Spring & Other Parts: SUS304, SUS316, Titanium, Hastelloy-C
**ZL-J06 单端面集装式密封件 Single Cartridge Seal**

**ZL-J07 单端面集装式密封件 Single Cartridge Seal**

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**Operating limits**
Shaft size: 25-75mm
Pressure: 1.8MPa
Speed: 10m/s
Temperature: -20°C to 140°C

Medium: Clean water, sewage water, oil and weak corrosive fluids.
Equivalent to Burgmann Unitek

**Material**
Stationary Ring: SIC
Rotary Ring: SIC, Carbon
Secondary Seal: Viton EPDM
Spring & Other Parts: SUS304, SUS316

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**Operating limits**
Shaft size: 25-100mm
Pressure: 2.5MPa
Speed: 10m/s
Temperature: -40°C to 220°C

Medium: Petroleum, chemical, oil refining fields.
Equivalent to Burgmann Carlex

**Material**
Stationary Ring: SIC
Rotary Ring: SIC, Carbon
Secondary Seal: Viton EPDM, PTFE-Won
Spring & Other Parts: SUS304, SUS316, Titanium, Hastelloy

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**Technical Parameters**
- Shaft size: 25-75mm
- Pressure: 1.8MPa
- Speed: 10m/s
- Temperature: -20°C to 140°C

- Medium: Clean water, sewage water, oil and weak corrosive fluids.
- Equivalent to Burgmann Unitek

- Material:
  - Stationary Ring: SIC
  - Rotary Ring: SIC, Carbon
  - Secondary Seal: Viton EPDM
  - Spring & Other Parts: SUS304, SUS316

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**Technical Parameters**
- Shaft size: 25-100mm
- Pressure: 2.5MPa
- Speed: 10m/s
- Temperature: -40°C to 220°C

- Medium: Petroleum, chemical, oil refining fields.
- Equivalent to Burgmann Carlex

- Material:
  - Stationary Ring: SIC
  - Rotary Ring: SIC, Carbon
  - Secondary Seal: Viton EPDM, PTFE-Won
  - Spring & Other Parts: SUS304, SUS316, Titanium, Hastelloy
**ZL-JG08**

**Gas-lubricated Cartridge Seal**

- **Operating limits:**
  - Shaft size: 28.000" - 4.00" inch
  - Pressure: 1.6MPa
  - Speed: 15m/s
  - Temperature: -20°C - 200°C

- **Material:**
  - Stationary Ring: SiC, TC
  - Rotary Ring: SiC
  - Secondary Seal: PTFE + viton
  - Springs: SUS304, SUS316

- Equivalent to Burgmann Carterx-G50

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**ZL-J09**

**Single Cartridge Seal**

- **Operating limits:**
  - Shaft size: 1.000" - 4.350" inch
  - Pressure: 0.8MPa
  - Speed: 25m/s
  - Temperature: -40°C - 250°C

- **Material:**
  - Stationary Ring: SiC, TC
  - Rotary Ring: SiC, TC, Carbon
  - Secondary Seal: PTFE + viton, EPDM
  - Springs & Other Parts: SUS304, SUS316, Titanium, Hastelloy-C

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**Technical Specifications:**

- **Sizes:** 28" - 100mm
- **Pressure:** 1.6MPa
- **Speed:** 15m/s
- **Temperature:** -20°C - 200°C
ZL-JB10 金属波纹管集装式密封件 Metal Bellows Cartridge Seal

密封材料 Sealing Materials

静环结构及名称 Stationary Ring Structure

材料：
Stationary Ring: SiC, TC, Carbon
Rotary Ring: SiC, TC
Secondary Seal: UHMWPE, PTFE

金属波纹管：SUS316, AM350
Inconel718, Titanium

弹簧及其他部件：SUS304, SUS316

技术参数：
尺寸：25~100mm
压力：2.0MPa
速度：25m/s
温度：-30℃~200℃
## 碳化硅主要技术性能

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<th>单位</th>
<th>性能</th>
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## 碳化钨主要技术性能

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## 石墨主要技术性能

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<td>硬度 Hardness (HRA)</td>
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<td>热膨胀系数 Coefficient of thermal expansion (K)</td>
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<td>4.3×10⁻⁶</td>
<td>4.02×10⁻⁶</td>
</tr>
<tr>
<td>使用温度（大气中）</td>
<td></td>
<td>1600℃</td>
<td>1600℃</td>
</tr>
</tbody>
</table>

## 氧化铝主要技术性能

<table>
<thead>
<tr>
<th>参数</th>
<th>单位</th>
<th>性能</th>
<th>性能</th>
</tr>
</thead>
<tbody>
<tr>
<td>粗粒度含量 content %</td>
<td></td>
<td>95</td>
<td>55.5</td>
</tr>
<tr>
<td>密度密度 Density (g/cm³)</td>
<td></td>
<td>3.7</td>
<td>3.7</td>
</tr>
<tr>
<td>硬度 Hardness (HRA)</td>
<td></td>
<td>88</td>
<td>90</td>
</tr>
<tr>
<td>气孔率 Porosity %</td>
<td></td>
<td>&lt;0.4</td>
<td>&lt;0.15</td>
</tr>
<tr>
<td>抗折强度 Bending Strength (MPa)</td>
<td></td>
<td>250</td>
<td>350</td>
</tr>
<tr>
<td>热膨胀系数 Coefficient of thermal expansion (K)</td>
<td></td>
<td>5.6</td>
<td>5.2</td>
</tr>
<tr>
<td>热导率 Thermal Conductivity (W/M·K)</td>
<td></td>
<td>27.8</td>
<td>28</td>
</tr>
</tbody>
</table>