

# SUFON

## SEALS



- Water Pump Seals
- Mechanical Seals
- Mechanical Seal Spares

*Innova ve solu on for your equipment sealing problem.*

## THE COMPANY

SUFON is a reliable supplier of mechanical seals, seals parts and other related products including ceramic products, and rubber products etc., also we provide best solution for your equipment sealing problem.

SUFON focuses on the quality of the product, because we believe that only high-quality products will not be eliminated in the fierce competition. We use good raw materials in production, we control the production process to avoid product failure, we use the advanced machines in production. All our products are in total quality management within 100% quality inspection before shipment.

SUFON focuses on sustainable development, so we pay special attention to environmental protection in the process of producing and selling products, because we feel that a company with a concept of sustainable development can better serve future customers.

With the rapid development of these years, SUFON has won a very good reputation since its establishment.



## HEXA MG1

### EagleBurgmann Type MG1 Replacement

HEXA 01 series is the most common rubber bellows mechanical seals allow for fast and easy installation. It is also be used as multiple seal in tandem mechanical seals in two sets arrangement. Mechanical Seal Type HEXA 01 is widely used in Chemical standard pumps, screw pumps, slurry pumps and Petroleum chemical industry.



#### Product variants



**MG12**



**MG13**



**S20**

#### Features

- Compact design in the rubber
- Insensitive to shaft play and run out
- Bellows should not twist due to spring drive
- Single seal, unbalanced, single spring
- Conform with DIN24960 EN12756 standard

#### Recommended Applications

- Water and waste water technology
- Petroleum chemical industry
- Industrial pumps
- Slurry pumps
- Process pumps
- Other Rotating Equipment

#### Operating range

- Shaft diameter:  $d_1=8\ldots100$  mm
- Pressure:  $p=-0.1\ldots1.6$  Mpa (-14.5psi....232psi)
- Temperature:  $t = -20\text{ }^{\circ}\text{C} \ldots +140\text{ }^{\circ}\text{C}$  (-4°F to 284°F)
- Sliding velocity:  $V_g \leq 10$  m/s (32.80ft/m)

**Notes :** The range of pressure, temperature and sliding velocity is depend on seals combination materials

#### Rotary Face

- Carbon graphite resin impregnated Ak
- Hot-Pressing carbon Ac
- Silicon carbide (RBSIC) O

#### Stationary Seat

- Aluminium oxide(Ceramic) B
- Silicon carbide (RBSIC)
- Tungsten carbide W1

#### Auxiliary Seal

- Nitrile-Butadiene-Rubber (NBR) P
- Fluorocarbon-Rubber (Viton) V
- Ethylene-Propylene-Diene (EPDM) E

#### Spring

- Stainless Steel (SUS304) F

#### Metal Parts

- Stainless Steel (SUS304) F





### John Crane Type

Mechanical seal in the TG560 series is the ideal for general-purpose applications, designed for large batch production. Efficient stock keeping due to easily interchangeable parts. Type 560 series is widely used in the Centrifugal pumps, turbine pumps, compressors, hot water pumps and other rotary shaft equipment.



#### Features

- Single and elastomer bellows mechanical seal
- Bi-directional
- Non-sliding design structure, elastomer bellows automatically compensates for primary ring wear.
- TG560B, TG560K, TG560C, TG560A show difference in the dimensional data, available with different standard working lengths.
- Available in metric and inch sizes
- 560 series can also be used as double face mechanical seals in two sets arrangement

#### Operating range

- Shaft diameter:  $d_1 = 8 \dots 80$  mm
- Pressure:  $p = 0 \dots 1.0$  Mpa (145psi)
- Temperature:  $t = -20 \text{ } ^\circ\text{C} \dots 150 \text{ } ^\circ\text{C}$  (-4°F to 302°F)
- Sliding velocity:  $V_g \leq 13$  m/s (42.6ft/m)

**Notes :** The range of pressure, temperature and sliding velocity is depend on seals combination materials

#### Rotary Face

- Carbon graphite resin impregnated Ak
- Hot-Pressing carbon Ac
- Silicon carbide (RBSIC) O

#### Auxiliary Seal

- Nitrile-Butadiene-Rubber (NBR) P
- Fluorocarbon-Rubber (Viton) V
- Ethylene-Propylene-Diene (EPDM) E

#### Recommended Applications

- Water and waste water technology
- Process pumps
- Industrial pumps
- Petroleum chemical industry
- Other Rotating Equipment

#### Stationary Seat

- Aluminium oxide (Ceramic) B
- Silicon carbide (RBSIC) O
- Tungsten carbide W1

#### Spring

- Stainless Steel (SUS304) F

#### Metal Parts

- Stainless Steel (SUS304) F

## John Crane Type 2100

Compact, single-spring, elastomer bellows mechanical seals Type 2100 provides maximum performance and efficiency. Widely used in centrifugal, rotary and turbine pumps, compressors and other rotary equipment.



### Features

- Single Seal, easy installation and replacement
- Innovative bellows design is pressure-supported and will not crease or fold under high pressure
- Conform with DIN24960 EN12756  
DIN24960 · ISO3069 standard

### Operating range

- Shaft diameter:  $d_1 = 10 \dots 75 \text{ mm}$  (0.375" ... 3.000")
- Pressure:  $p = 0 \dots 1.2 \text{ Mpa}$  (174psi)
- Temperature:  $t = -20 \text{ }^\circ\text{C} \dots 150 \text{ }^\circ\text{C}$  (-4°F to 302°F)
- Sliding velocity:  $V_g \leq 13 \text{ m/s}$  (42.6ft/m)

**Notes :** The range of pressure, temperature and sliding velocity is depend on seals combination materials

### Rotary Face

- Carbon graphite resin impregnated Ak
- Hot-Pressing carbon Ac
- Silicon carbide (RBSIC) O

### Auxiliary Seal

- Nitrile-Butadiene-Rubber (NBR) P
- Fluorocarbon-Rubber (Viton) V
- Ethylene-Propylene-Diene (EPDM) E

### Recommended Applications

- Process pumps
- Centrifugal pumps
- Turbine pumps
- Other rotary equipment

### Stationary Seat

- Aluminium oxide (Ceramic) B
- Silicon carbide (RBSIC) O
- Tungsten carbide W1

### Spring

- Stainless Steel (SUS304) F

### Metal Parts

- Stainless Steel (SUS304) F

## STORK PUMP

Mass-produced, short axial installation length and compact design elastomer bellows mechanical seal TG301 is frequently used by food and beverage industry, household and garden pumps, swimming pool pumps and dishwasher pump

### Features

- Compact structure design short axial installation length
- Stationary seat with wide face design offers maximum durability and performance
- Insensitive to shaft play and run out due to special bellows arrangement
- Can also be used as double face mechanical seals in two sets arrangement

### Operating range

- Shaft diameter:  $d_1 = 6 \dots 70$  mm
- Pressure:  $p = 0 \dots 0.4$  Mpa (58 psi)
- Temperature:  $t = -20$  °C  $\dots$   $+150$  °C ( $-4$ °F to  $302$ °F)
- Sliding velocity:  $V_g \leq 10$  m/s (32.8 ft/s)

**Notes :** The range of pressure, temperature and sliding velocity is depend on seals combination materials

### Rotary Face

- Carbon graphite resin impregnated Ak
- Hot-Pressing carbon Ac
- Silicon carbide (RBSIC) O

### Auxiliary Seal

- Nitrile-Butadiene-Rubber (NBR) P
- Fluorocarbon-Rubber (Viton) V
- Ethylene-Propylene-Diene (EPDM) E



### Recommended Applications

- Water and waste water technology
- Food and beverage industry
- Household and garden pumps
- Swimming pool pumps
- Other Rotating Equipment

### Stationary Seat

- Aluminium oxide (Ceramic) B
- Silicon carbide (RBSIC) O
- Tungsten carbide W1

### Spring

- Stainless Steel (SUS304) F
- Stainless Steel (SUS316) G

### Metal Parts

- Stainless Steel (SUS304) F
- Stainless Steel (SUS316) G

## HONDA TYPE

Type TG6B is the stationary mechanical seals, good performance in the high-speed or vibration working condition. Widely used in the Auto industry and small industrial equipment.

### Features

- Good performance in the high-speed or vibration working condition
- Can be installed to various shaft sizes due to the clearance between the shaft and seal components
- Single-Spring, unbalanced elastomer bellows mechanical seal

### Operating range

- Shaft diameter:  $d_1=10\ldots30\text{m}$  (0.375" ...0.750")
- Pressure:  $p=0\ldots0.3\text{Mpa}$  (43.5psi)
- Temperature:  $t = -35\text{ }^{\circ}\text{C} \ldots 150\text{ }^{\circ}\text{C}$  (-31°F to 302°F)
- Speed:  $n \leq 5000\text{m/s}$

**Notes :** The range of pressure, temperature and sliding velocity is depend on seals combination materials

### Rotary Face

- Carbon graphite resin impregnated Ak
- Hot-Pressing carbon Ac
- Silicon carbide (RBSIC) O

### Auxiliary Seal

- Nitrile-Butadiene-Rubber (NBR) P
- Fluorocarbon-Rubber (Viton) V
- Ethylene-Propylene-Diene (EPDM) E



### Recommended Applications

- Auto industry
- Coolant Pumps
- Swimming pool pumps
- High-speed equipment

### Stationary Seat

- Aluminium oxide(Ceramic) B
- Silicon carbide (RBSIC) O
- Tungsten carbide W1

### Spring

- Stainless Steel (SUS304) F
- Stainless Steel (SUS316) G

### Metal Parts

- Stainless Steel (SUS304) F
- Stainless Steel (SUS316) G

## J1 TYPE

TG101 is simple structure and easy installation mechanical seal, It is normally used in garden sprinkler irrigation pumps and agricultural submersible pumps

### Features

- Single spring and unbalanced
- Bi-directional
- Simple structure



### Operating range

- Shaft diameter:  $d_1 = 16 \dots 25 \text{ mm}$
- Pressure:  $p = 0 \dots 0.4 \text{ Mpa}$  (58 psi)
- Temperature:  $t = -20 \text{ }^\circ\text{C} \dots +80 \text{ }^\circ\text{C}$  ( $-4^\circ\text{F}$  to  $176^\circ\text{F}$ )
- Sliding velocity:  $V_g \leq 3000 \text{ m/s}$

### Recommended Applications

- Water treatment
- Agricultural industry
- Sprinkler irrigation pumps
- Submersible pumps

**Notes :** The range of pressure, temperature and sliding velocity is depend on seals combination materials

### Rotary Face

- Carbon graphite resin impregnated Ak
- Hot-Pressing carbon Ac
- Silicon carbide (RBSIC) O

### Stationary Seat

- Aluminium oxide (Ceramic) B
- Silicon carbide (RBSIC) O

### Auxiliary Seal

- Nitrile-Butadiene-Rubber (NBR) P
- Fluorocarbon-Rubber (Viton)

### Spring

- Stainless Steel (SUS304) F

### Metal Parts

- Stainless Steel (SUS304) F





**ROBIN TYPE**



**GRANDFOUS**



**J1 TYPE**



**OPEN TYPE**



**CLOSE TYPE****SS-S01****Structure Description:**

Replacement of Burgmann and John crane pump seal

**Operating range**

- Temperature : -20°C to +120°C
- Pressure :  $\leq 0.5\text{MPa}$
- Speed :  $\leq 10\text{m/s}$
- Standard Size: 6-60mm

**Recommended Applications**

- Water treatment
- Agricultural industry
- Sprinkler irrigation pumps
- Submersible pumps

**Notes :** The range of pressure, temperature and sliding velocity is depend on seals combination materials

**Rotary Face**

- Q5, Resin Impregnated Carbon Graphite(Furan),
- Silicon Carbide Reaction Bonded

**Stationary Seat**

- Ceramic(Alumina), Silicon Carbide Reaction Bonded

**Secondary Seal**

- Fluorocarbon Rubber(Viton)
- Nitrile(NBR)
- Ethylene Propylene(EPDM)

**Spring**

- Stainless Steel 304/316

**Metal Parts**

- Stainless Steel 304/316



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