

Ride By Quality



**GLOBE  
SEAL**

# OPERATIONAL UNITS



HEAD OFFICE - AHMEDABAD



DESIGN & DEVELOPMENT



PRODUCTION UNIT FOR MECHANICAL SEAL



FLATNESS TESTING LAB



COMPARATOR



ASSEMBLY OF ENGINEERED SEAL



MANUFACTURING UNIT - AHMEDABAD



PROFESSIONAL TEAM



STORE ROOM



EXHIBITION



**GLOBE STAR  
ENGINEERS (INDIA) PVT. LTD.**  
AN ISO 9001-2008 CERTIFIED COMPANY



## COMPANY PROFILE



*17 years to remember.....*

*..... and much more to look for.....*

### Vision

Our Vision is to Impact on Performance, Reliability and Efficiency of current system through our products and solution, where we Add value to your business.

### Mission

Our Mission is to reduce total operation cost and raise the production capacity through our Sealing and Rotary devices.

### Our Core Value

1. Quality
2. Consistent
3. Innovation
4. Reliability

### The Product Range

1. By Design, Manufacturing and Export of Mechanical Seals.
2. Equivalent Range of Complete Mechanical Shaft Seals & Spares for leading brands like John Crane, Burgmann, Flowserve, Flexibox.....etc.
3. Repairs & Maintenance of any third party Mechanical Shaft Seals.

### The Facility

1. State of the Art Manufacturing Unit in Odhav GIDC Ahmedabad, Gujarat & Area of 18000 sq. feet Manufacturing Facility since last 2002.
2. Direct Support Sales / Dealer Network in India & Overseas.
3. Experienced & Efficient Staff to ensure workmanship & Quality Control.
4. Stringent Quality Control for Outsourced Materials like Spring, Bellow & Rubber Parts.
5. Dedicated Lapping Division & Technology Up graded Machinery ERP & ISO Implemented  
**GLOBE STAR ENGINEERS (INDIA) PVT. LTD.** has been catering to wide range of Shipping Marine & Offshore, Petrochemicals, Chemical, Water, Sewage, Dyes & Intermediate, Oil & Gas. Agrochemical, Pulp & Paper & Pharmaceutical.



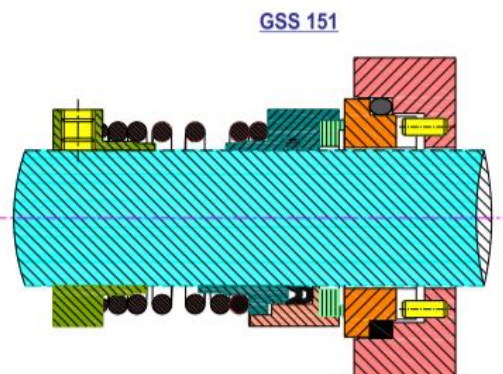


**GLOBE STAR**  
**ENGINEERS (INDIA) PVT. LTD.**  
 AN ISO 9001-2008 CERTIFIED COMPANY

**Ride By Quality**

**Single Spring Unbalance Seal**  
**Series : GSS-151 / GSS-156**

**Face Material** : Carbon, Ceramic (99.5%), SiC, T.C.  
**Secondary Seal** : Viton, EPDM, Silicon, EPR, Kalrez  
 GFT, PTFE, TCV, FEP.  
**Hardware** : SS-316, SS-304, Hast-C, Monel,  
 Alloy-20  
**Shaft Diameter** : 10 mm to 100 mm  
**Pressure** : 10 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -45° C to 200° C  
**Shaft Speed** : up to 6000 rpm



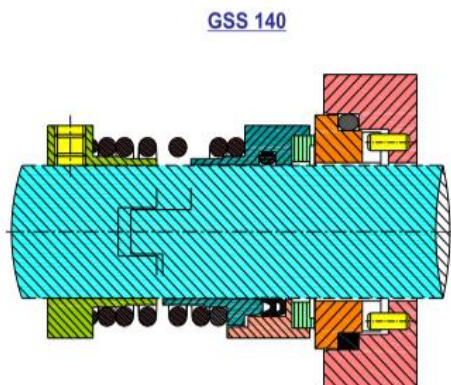
GSS 156

**Application :**

High Hydrocarbon, Petrochemicals, General Chemicals, Dirty Water & Slurry, Petroleum Refinery.

**Single Spring Unbalance Seal**  
**Series : GSS-140 / GSS-160**

**Face Material** : Carbon, Ceramic (99.5%), SiC, T.C.  
**Secondary Seal** : Viton, EPDM, Silicon, EPR, Kalrez  
 GFT, PTFE, TCV, FEP.  
**Hardware** : SS-316, SS-304, Hast-C, Monel,  
 Alloy-20  
**Shaft Diameter** : 10 mm to 100 mm  
**Pressure** : 10 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -45° C to 200° C  
**Shaft Speed** : up to 6000 rpm



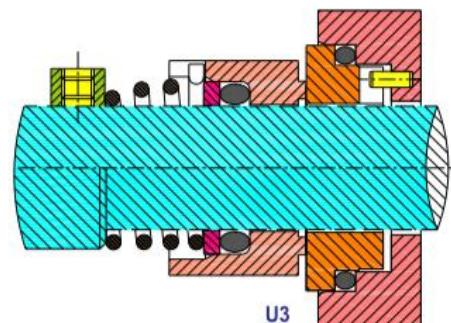
GSS 160

**Application :**

High Hydrocarbon, Petrochemicals, General Chemicals, Dirty Water & Slurry, Petroleum Refinery.

**Conical Spring Unbalance Seal**  
**Series : U3**

**Face Material** : Carbon, Ceramic (99.5%), SiC, T.C.  
**Secondary Seal** : Viton, EPDM, Silicon, EPR, Kalrez  
 GFT, PTFE, TCV, FEP.  
**Hardware** : SS-316, SS-304, Hast-C, Monel,  
 Alloy-20  
**Shaft Diameter** : 10 mm to 100 mm  
**Pressure** : 10 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -60° C to 180° C  
**Shaft Speed** : up to 6000 rpm



**Application :**

Circulation Pumps for Central Heating, Water Pumps / Sewage & Submersible Pumps, Chemical Process Pumps.

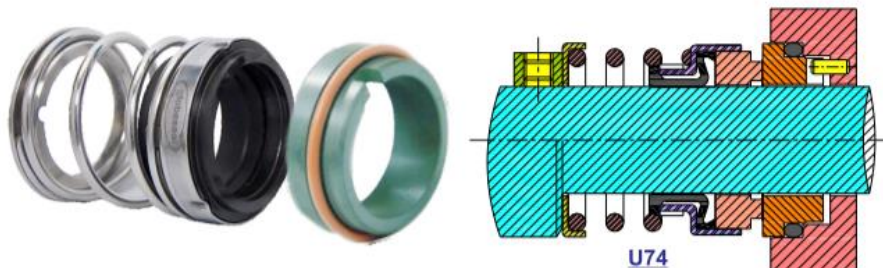


**GLOBE STAR**  
**ENGINEERS (INDIA) PVT. LTD.**  
 AN ISO 9001-2008 CERTIFIED COMPANY

**Ride By Quality**

**Rubber Bellow Unbalance Seal**  
**Series : U74**

**Face Material** : Carbon, Ceramic (99.5%), SIC, T.C.  
**Secondary Seal** : Viton, Nitrile, Neoprene, Aflas, Silicon,  
 As per Application.  
**Hardware** : SS-316, SS-304, Hast-C, Monel,  
 Alloy-20  
**Shaft Diameter** : 10 mm to 100 mm  
**Pressure** : 16Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -20° C to 200° C  
**Shaft Speed** : up to 4500 rpm

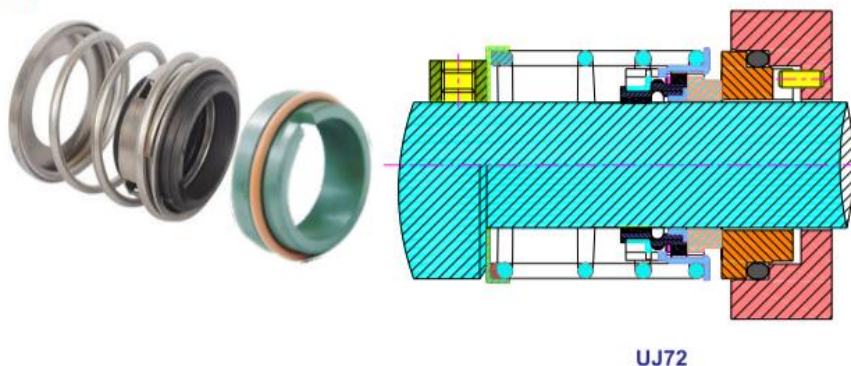


**Application :**

Water Pumps, Submersible Pumps & Sewage Pumps.

**Rubber Bellow Unbalance Seal**  
**Series : UJ72**

**Face Material** : Carbon, Ceramic (99.5%), SIC, T.C.  
**Secondary Seal** : Viton, Nitrile, Neoprene, Aflas, Silicon,  
 As per Application.  
**Hardware** : SS-316, SS-304, Hast-C, Monel,  
 Alloy-20  
**Shaft Diameter** : 10 mm to 100 mm  
**Pressure** : 16 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -20° C to 200° C  
**Shaft Speed** : up to 4500 rpm

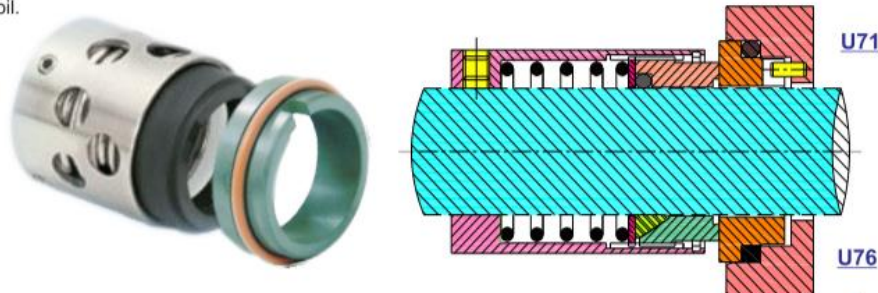


**Application :**

Water Pumps, Submersible Pumps & Sewage Pumps.

**Single Spring Unbalance Seal**  
**Series : U71 & U76**

**Face Material** : Carbon, Ceramic (99.5%), SIC, T.C.  
**Secondary Seal** : Viton, EPDM, Silicon, Aflas, EPR,  
 Kalrez, TCV, GFT, PTFE, FEP, Grafoil.  
**Hardware** : SS-316, SS-304, Hast-C, Monel,  
 Alloy-20  
**Shaft Diameter** : 12 mm to 100 mm  
**Pressure** : 10 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -60° C to 260° C  
**Shaft Speed** : up to 6000 rpm



**Application :**

Light Hydrocarbon, Dearth, Media Petrochemicals,  
 General Petrochemicals, Petroleum Refinery.

Visit us : [www.globeseal.com](http://www.globeseal.com)



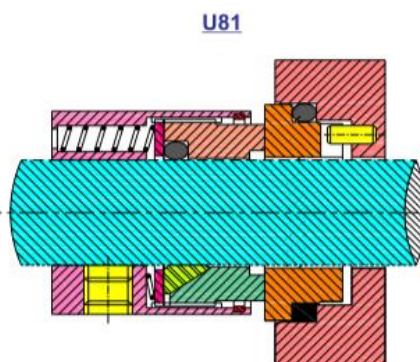


**GLOBE STAR**  
**ENGINEERS (INDIA) PVT. LTD.**  
 AN ISO 9001-2008 CERTIFIED COMPANY

**Ride By Quality**

**Multi Spring Unbalance Seal**  
**Series : U81 / U86**

**Face Material** : Carbon, Ceramic (99.5%), SIC, T.C.  
**Secondary Seal** : Viton, EPDM, Silicon, Aflas, EPR, Kalrez  
 TCV, GFT, PTFE, FEP, Grafoil.  
**Hardware** : SS-316, SS-304, Hast-C, Monel,  
 Alloy-20  
**Shaft Diameter** : 12 mm to 100 mm  
**Pressure** : 10 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -60° C to 260° C  
**Shaft Speed** : up to 6000 rpm



**U81**

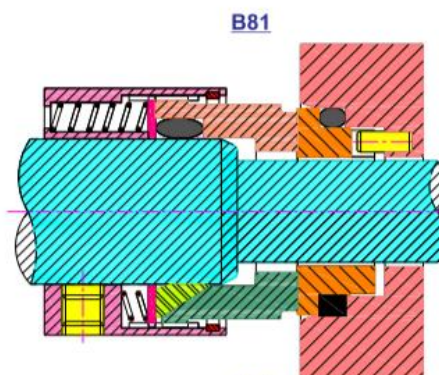
**U86**

**Application :**

Light Hydrocarbon, Petrochemicals, General Chemicals, Petroleum Refinery.

**Multi Spring Balance Seal**  
**Series : B81 / B86**

**Face Material** : Carbon, Ceramic (99.5%), SIC, T.C.  
**Secondary Seal** : Viton, EPDM, Silicon, Aflas, EPR, Kalrez  
 TCV, GFT, PTFE, FEP, Grafoil.  
**Hardware** : SS-316, SS-304, Hast-C, Monel,  
 Alloy-20  
**Shaft Diameter** : 12 mm to 100 mm  
**Pressure** : 35 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -60° C to 260° C  
**Shaft Speed** : up to 6000 rpm



**B81**

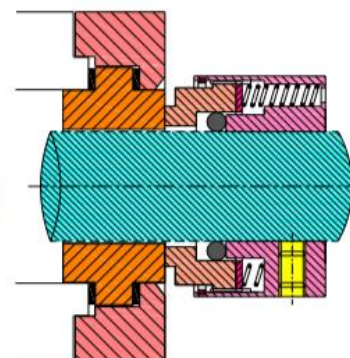
**B86**

**Application :**

Light Hydrocarbon, Dirth, Petrochemicals, General Chemicals, Petroleum Refinery.

**External Mounted Reverse**  
**Balance Seal Series : B89R**

**Face Material** : Carbon, Ceramic (99.5%), SIC, T.C.  
**Secondary Seal** : Viton, NBR, Silicon, TVC, GFT, PTFE,  
 FEP, CFT.  
**Hardware** : SS-316, SS-304, Hast-C, Monel,  
 Alloy-20  
**Shaft Diameter** : 18 mm to 100 mm  
**Pressure** : Vacuum 5 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -45° C to 180° C  
**Shaft Speed** : up to 6000 rpm



**B89R**

**Application :**

Acid and acidic Atmosphere, General and Light Chemicals, Extremely Corrosive Services.

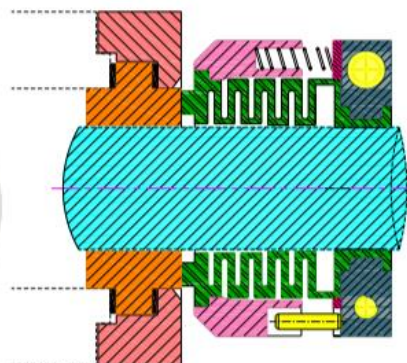


**GLOBE STAR**  
**ENGINEERS (INDIA) PVT. LTD.**  
 AN ISO 9001-2008 CERTIFIED COMPANY

**Ride By Quality**

**PTFE Bellow External Mounted Seal**  
**Series : M021**

Rotary	: GFT, PTFE, CFT.
Secondary	: Ceramic
Metal Parts	: SS-316, SS-304, Monel, Alloys-20
Spring	: SS-316, Hast-C, Alloy-20 & Spring Steel OR SS-304 Covered Teflon Tube
Secondary Seal	: PTFE Bellow, Gasket.
Shaft Diameter	: 10mm to 100mm
Pressure	: 10 Bar (Kg / cm <sup>2</sup> )
Temperature	: 30° C to 120° C
Shaft Speed	: up to 4000 rpm



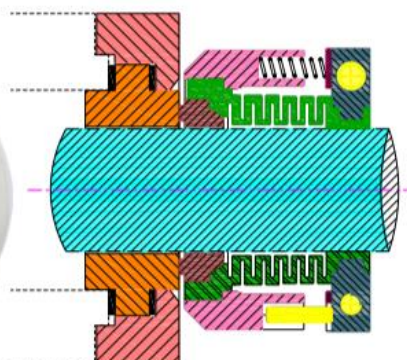
**M021**

**M021**

In this Seal type Glass filled PTFE Face is Composite moulded with Highly Flexible PTFE Bellow.

**PTFE Bellow External Mounted Seal**  
**Series : R21**

Rotary	: Silicon, Carbide, Carbon.
Secondary	: Ceramic
Metal Parts	: SS-316, SS-304, Monel, Alloys-20
Spring	: SS-316, Hast-C, Alloy-20 & Spring Steel OR SS-304 Covered Teflon Tube
Secondary Seal	: PTFE Bellow, Gasket.
Shaft Diameter	: 10mm to 100mm
Pressure	: 10 Bar (Kg / cm <sup>2</sup> )
Temperature	: 30° C to 120° C
Shaft Speed	: up to 4000 rpm



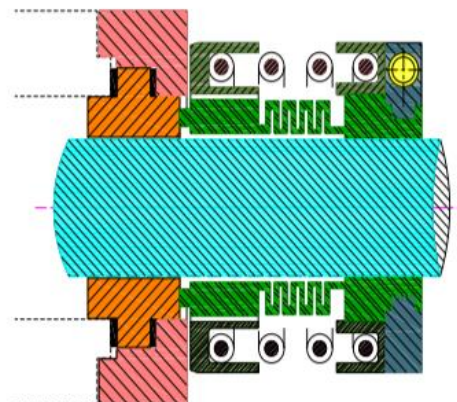
**R21**

**R21**

It is a Seal similar to type M021 in Design with Replaceable Dynamic Ring. This Permits easy Removal Replacement of the Dynamical Ring.

**PTFE Bellow External Mounted Seal**  
**Series : S21**

Rotary	: GFT, PTFE.
Secondary	: Ceramic
Metal Parts	: SS-316, SS-304, Monel, Alloys-20
Spring	: PTFE Covered Spring.
Secondary Seal	: PTFE Bellow, Gasket.
Shaft Diameter	: 25mm to 100mm
Pressure	: 10 Bar (Kg / cm <sup>2</sup> )
Temperature	: 30° C to 120° C
Shaft Speed	: up to 4000 rpm



**S21**

**S21**

It is a Seal Similar to type (M021/R21) in Design with Replaceable Dynamic Ring. This Permits easy Removal Replacement of the Dynamical Ring.

Visit us : [www.globeseal.com](http://www.globeseal.com)



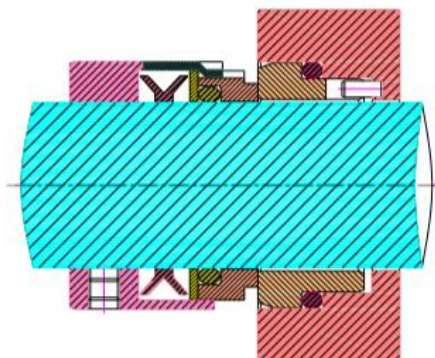


**GLOBE STAR**  
**ENGINEERS (INDIA) PVT. LTD.**  
 AN ISO 9001-2008 CERTIFIED COMPANY

**Ride By Quality**

**Wave Spring Unbalance Seal**  
**Series : M781**

**Face Material** : Carbon, SIC, T.C.  
**Secondary Seal** : PTFE, GFT, CFT, FEP, TCV, Viton, Silicon, NBR.  
**Hardware** : SS-316, SS-304, Hast-C, Menol, Alloy-20  
**Shaft Diameter** : 12 mm to 100 mm  
**Pressure** : 10 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -60° C to 260° C  
**Shaft Speed** : up to 6000 rpm



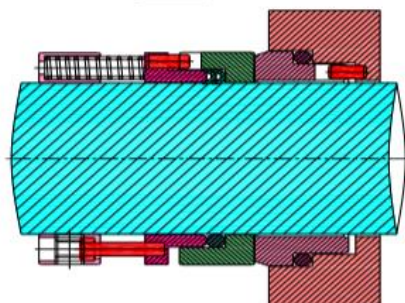
**Application :**

Light Hydrocarbon, Petrochemicals, General Chemicals, Petroleum Refinery.

**M781**

**Multi Spring UnBalance Seal**  
**Series : UF81 / UF86**

**Face Material** : Carbon, Ceramic (99.5%), SIC, T.C.  
**Secondary Seal** : Viton, EPDM, Silicon, Aflas, EPR, Kalrez, TCV, GFT, PTFE, FEP, Grafoil.  
**Hardware** : SS-316, SS-304, Hast-C, Monel, Alloy-20  
**Shaft Diameter** : 12 mm to 100 mm  
**Pressure** : 10 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -60° C to 260° C  
**Shaft Speed** : up to 6000 rpm



**UF86**

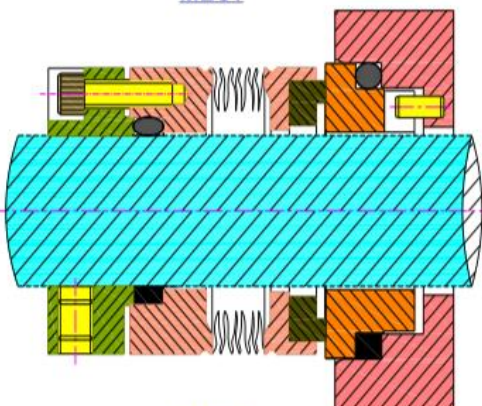
**Application :**

Light Hydrocarbon, Dirth, Petrochemicals, General Chemicals, Petroleum Refinery.

**UF81**

**Metal Bellow Inherently Balanced Seal**  
**Series : MB61 & MB66**

**Face Material** : Carbon-M,SIC, T.C.  
**Secondary Seal** : MB61, Viton,Kalrez MB66-Grafoil FEP, CFT.  
**Hardware** : AISI 316, SS 304, Carpenter-42  
**Welded Bellow** : AM 350  
**Shaft Diameter** : 10 mm to 100 mm  
**Pressure** : 25 Bar (Kg / cm<sup>2</sup>)  
**Temperature** : -20° C to 400° C  
**Shaft Speed** : up to 4000 rpm



**MB61**

**Application :**

Petrochemical, Chemical, Refinery, & Thermic Fluid.

**MB66**



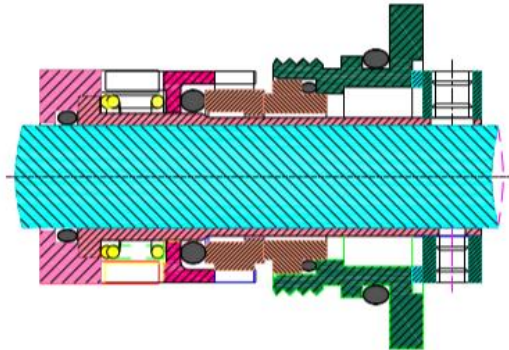


**GLOBE STAR**  
**ENGINEERS (INDIA) PVT. LTD.**  
 AN ISO 9001-2008 CERTIFIED COMPANY

**Ride By Quality**

**Cartridge Balance Seal**  
**Series : G91 / CG**

Face Material	: Carbon, SIC, T.C.
Secondary Seal	: Viton, EPDM, Silicon, EPR, Kalrez.
Hardware	: SS-316, SS-304, Hast-C, Menol, Alloy-20
Shaft Diameter	: 12 mm / 16mm / 22mm.
Pressure	: 5 to 35 Bar (Kg / cm <sup>2</sup> )
Temperature	: -20° C to 300° C
Shaft Speed	: up to 6000 rpm



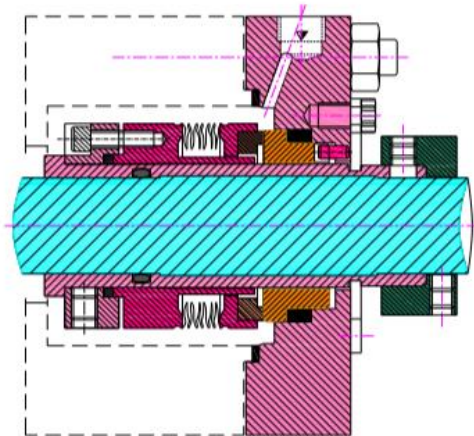
**G91/CG**

**Application :**

Sludge & Slurry Pump, Slurry Pump, Chemical, Petrochemicals & Refinery, Pulp & Paper, Boiler Feed Water Pump, Oil Pipeline Pump & Clinker Grinders.

**Metal Bellow Cartridge Balance Seal**  
**Series : MB611 / CG**

Face Material	: Carbon-M, SIC, T.C.
Secondary Seal	: Viton, Kalrez, Grafoil.
Hardware	: ANSI-316, SS-304, Carpenter-42.
Welded Bellow	: AM 350
Shaft Diameter	: 12 mm to 100 mm
Pressure	: 25 Bar (Kg / cm <sup>2</sup> )
Temperature	: -20° C to 400° C
Shaft Speed	: up to 4000 rpm



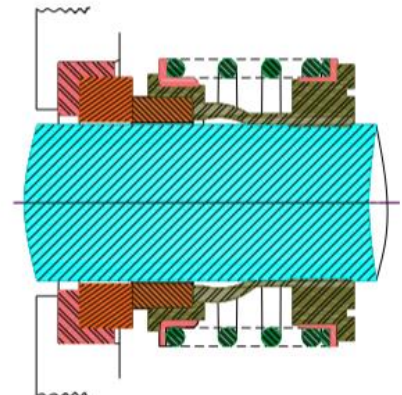
**MB611L/CG**

**Application :**

Petrochemicals, Chemicals, Refinery, Thermic Fluid.

**Rubber Bellow Unbalance Seal**  
**Series : G1**

Face Material	: Carbon, Ceramic (99.5%), SIC, T.C.
Secondary Seal	: Viton, Nitrile, Neoprene, Aflas, Silicon.
Hardware	: SS-316, SS-304, Hast-C, Monel, Alloy-20
Shaft Diameter	: 12 mm to 100 mm
Pressure	: 10 Bar (Kg / cm <sup>2</sup> )
Temperature	: -20° C to 150° C



**G1**

**Application :**

Water, Sewage Service, Light Chemicals & Muddy Water.

**Features** : Internal Mounting, Single Acting,  
 Independent of Direction of Rotation

**Shaft Speed** : 10 M / Sec.

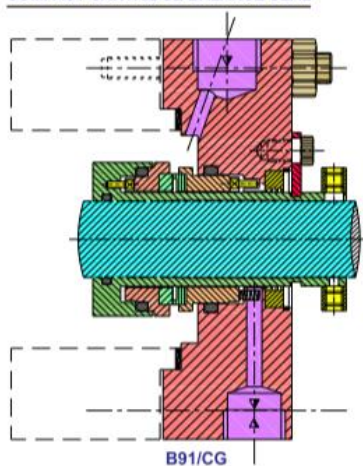


# GLOBE STAR ENGINEERS (INDIA) PVT. LTD. AN ISO 9001-2008 CERTIFIED COMPANY

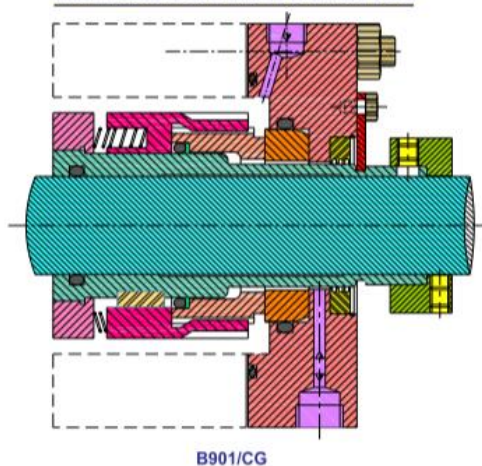
## Cartridge Balance Seal Series : B91/CG & B901/CG

The "GLOBE STAR" designed Various Types of Cartridge Seals B91/CG & B901/CG Series for Various Application, like Slurries, Sludges, Syrup, Water, Oil & others Chemical at Low & High Pressure Pumps. Our Self Developed & Fabricate for Single & Double Arrangement to suit application. The Concept is for stock Rationalization this are Easier to Fitment & Easier Maintenance, All Seal Face & Hardware are Interchangeable.

COMPACT CARTRIDGE BALANCE SEAL



HIGH PRESSURE CARTRIDGE BALANCE SEAL



### Part of Identification

- Rotary Face (Dynamic Ring)
- Stationary Face (Stationary Ring)
- Elastomer
- Spring
- Other Hardware.

(Assembly Drg of Cartridge Mechanical Seals)

## GLOBE STAR STANDARD STYLE

- Face Material** : (Dynamic Ring & Stationary Ring)  
Carbon, Ceramic (99.5%) Silicon Carbide, Tungsten Carbide, Chrome Cast Steel, Which are Suitable for Fluid.
- Elastomer** : (Secondary Seal) Viton, EPDM, Silicon, Aflas, PTFE, GFT, TCV & FEP, Kalrez.
- Hardware** : SS-316, Hast alloy-C, Monel, Alloy-20

## Application

- Sludge & Syrup Pump.
- Slurry Pump
- Chemical, Petrochemical & Refinery.
- Pulp & Paper.
- Boiler Feed Water Pump.
- Oil Pipeline Pumps.
- Clinker Grinders.

## Operating Limits :-

- Shaft Diameter : 18mm to 100mm (0.75" to 4.0")
- Pressure :- 5 to 35 Bar (kg/cm<sup>2</sup>)
- Temperature :- -20° C to 300° C
- Shaft Speed : Upto 4000 RPM According to Shaft Size & Pressure.

## Seal Characteristics

- Balanced.
- Single Acting.
- Independent of Direction of Rotation.
- Sturdy Drive Mechanism.
- Stationery Multiple Spring.

## OTHER AVAILABLE CARTRIDGE BALANCE SEAL



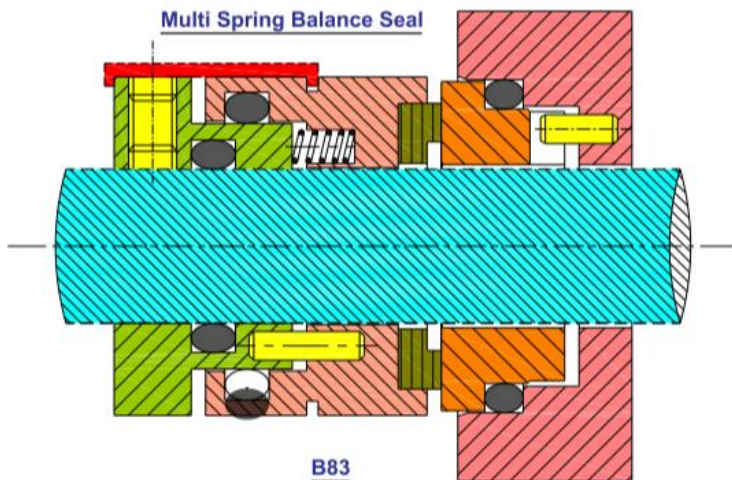




**GLOBE STAR  
ENGINEERS (INDIA) PVT. LTD.**  
AN ISO 9001-2008 CERTIFIED COMPANY

**Multiple Spring  
Balance Seal  
Series : B83**

GLOBE STAR Mechanical Seal Series B83 is Multiple Spring Balanced Seal Equivalent to DIN 24960 The Springs are Protected from the Fluid by means of Dynamic O-Ring This Seals are Developed for media containing Solid Particles, Mining Industry, Chemical & Water Conditioning



**Part of Identification**

- Rotary Face (Dynamic Ring)
- Stationary Face (Stationary Ring)
- Elastomer
- Spring
- Other Hardware.

(Assly. Drg.of Multipale Spring Balance Seals)

**GLOBE STAR STANDARD STYLE**

<b>Face Material</b>	: Rotary	: Carbon, SIC, TC.
	: Stationary	: SIC, TC, Ceramic.
<b>Metal Part</b>	: AISI 316, Hast-C, Monel, Alloy-20	
<b>Springs</b>	: SS-316, Hast-C	
<b>Secondary Seal</b>	: Elastomers "O" Ring, TCV, FEP.	

**Operating Limits :-**

- Shaft Diameter : 20mm to 100mm
- Pressure :- 25 Bar (kg/cm<sup>2</sup>)
- Temperature :- -20°C to 120°C
- Shaft Speed : Upto 6000 RPM According to Shaft Size & Pressure.

**Double Mechanical Seal**

These are very commonly used Mechanical Seals for most of the Fluids. Due to Multi-Spring Design, Uniform Force over the Faces Enhance its life. This Class Seals can be used on all kind of Clear and Non-Corrosive Liquids. These Seals can be offered in Balance and Unbalance Configuration. Viton or PTFE are used as a Secondary Packing. In this type Seal there are Three type of Arrangement, Back to Back, Face to Face & tandem.





**GLOBE STAR**  
**ENGINEERS (INDIA) PVT. LTD.**  
 AN ISO 9001-2008 CERTIFIED COMPANY

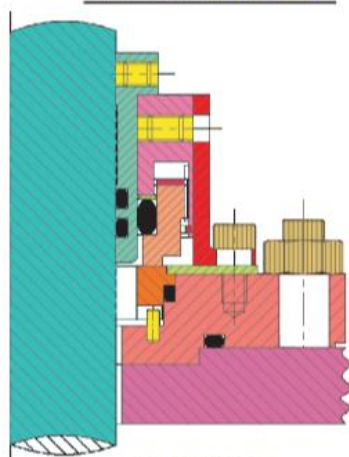
**Dry Running**  
**Reverse Balance Seal**  
**Series : B89RA/CG**

**GLOBE STAR** Agitator Make B89RA/CG Seals of Series is Factory Assembled & Dynamically Tested units on Steel glass lined and SS Mixers, Agitator & Vessels. These Seals are basically used on Top Entry Agitators as Dry Running Seals. When Food Products or Pharmaceutical Products are Agitated in Agitator Mixing of any Other liquid will contaminate the Product & Affect its Quality Hence these Dry Running Seals are used These Seals don't require any External media for Lubricating. The Faces that is why They are Known as Dry Running Seals identification of the Seal Size is done by the Outside Diameter of the Sleeve.

This is a Multiple Spring Externally Mounted, Balanced Seal with "O-Ring" as Secondary Sealing Member. Various Face Materials & Elastomers can be offered for wide service Application. This Seal can also be used for Corrosive Services as the Metallic Components. i.e. Retainer, Spring, Washer etc. do not come in contact with liquid to be Sealed.

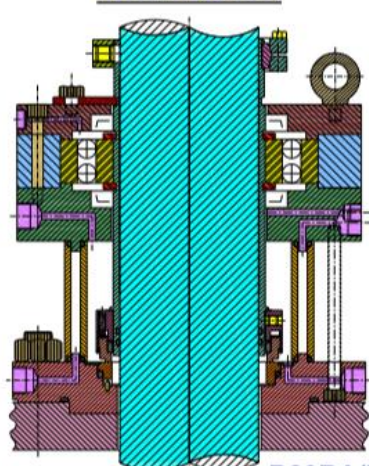
These type Seals are available in two types with Bearing or without Bearing.

**DRY RUNNING SEAL**



**B89RA/CG**

**WITH BEARING**



**B89RA/BCG**



**Part of Identification**

- Rotary Face (Dynamic Ring)
- Stationary Face (Stationary Ring)
- Elastomer
- Spring
- Other Hardware.

**GLOBE STAR STANDARD STYLE**

<b>Face Material</b>	: (Dynamic Ring & Stationary Ring) Carbon, Ceramic (99.5%) Silicon Carbide, Tungsten Carbide, Chrome Cast Steel....etc.
<b>Elastomer</b>	: (Secondary Seal) Viton, EPDM, Aflas, PTFE, GFT, TCV & FEP, Kalrez.
<b>Hardware</b>	: SS-316, SS-304, Hast alloy-C, Monel, Alloy-20

**Operating Limits :-**

- Shaft Diameter : 20mm to 150mm (0.75" to 5.875")
- Pressure :- 20 Bar (kg/cm<sup>2</sup>)
- Temperature :- 125° C (Maxi)
- Shaft Speed : Upto 6000 RPM According to Shaft Size & Pressure.

**Application**

- General Light Chemicals
- Food Products
- Pharmaceutical Products
- Corrosive Chemicals

**Seal Characteristics**

- Outside Mounted
- Independent of Direction of Rotation
- Reverse Balanced
- Dry Running Type
- Single Acting

**OTHER AVAILABLE DRY RUNNING SEAL**







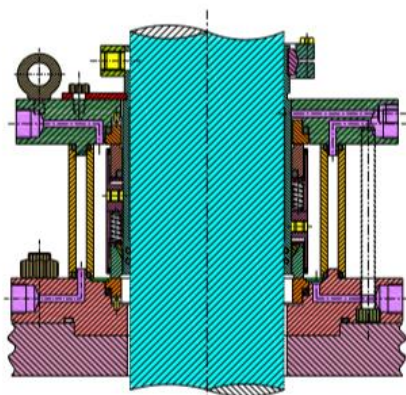
# GLOBE STAR ENGINEERS (INDIA) PVT. LTD. AN ISO 9001-2008 CERTIFIED COMPANY

**Agitator**  
**Double Acting Unbalance Seal**  
**Series : U91/U96/BCG**

GLOBE STAR Make U91/U96/BCG Seals of Series are Design a Various Types of Agitator Seals with Bearing or without bearing Arrangement this Seal is Independent of Direction of Rotation, used with Various types of equipment like a Mixer, Agitator Vessel & Glass line Reactors, This Seal have a Two Types of Fitment Top Entry and Bottom Entry & Fitment is Out-side of Equipment to save Atmosphere to Media Fumes and also save Products Quality to mixing another liquid.

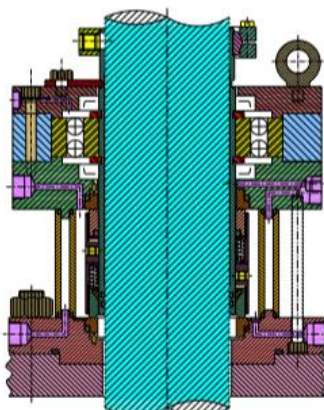
This Seal is Assembled in our Workshop and Dynamically Tested, This Seal are Required Lubricant and Quenching System & also require Thermosyphon System to Maintain Temperature & Pressure Inside of seal Quenching & Jacketing liquid, The Bearing Support to Drive Smoothly and Protect the Seal Face to loads of other equipment parts.

## WITHOUT BEARING



**U91/U96/CG**

## WITH BEARING



**U91/U96/BCG**

(Ass. Drg of Agitator Seals)



### Part of Identification

- Rotary Face (Dynamic Ring)
- Stationary Face (Stationary Ring)
- Elastomer & Secondary Seal
- Spring
- Other Hardware.

## GLOBE STAR STANDARD STYLE

Face Material	: (Dynamic Ring & Stationary Ring) Carbon, Ceramic (99.5%) Silicon Carbide, Tungsten Carbide, Chrome Cast Steel.....etc.
Elastomer	: (Secondary Seal) Viton, EPDM, Aflas, PTFE, GFT, TCV & FEP, Kalrez.
Hardware	: SS-316, SS-304, Hast alloy-C, Monel, Alloy-20

## Application :-

- General Chemicals and Its Vapours
- Food Products
- Pharmaceutical Products
- Light Hydrocarbons & Its Vapours
- Petrochemicals & Its Vapours

## Operating Limits

Shaft Diameter	: 25mm to 200mm (1" to 7.875")
Pressure	: Vacuum 35 Bar (Kg/cm2)
Temperature	: 60° C to 260° C
Shaft Speed	: up to 2000 rpm According to shaft Size & Pressure.

## Seal Characteristics :-s

- Unbalanced
- Cartridge Unit
- Independent of Direction of Rotation
- Operated with Pressurised Buffer Fluid.
- Single & Double Acting

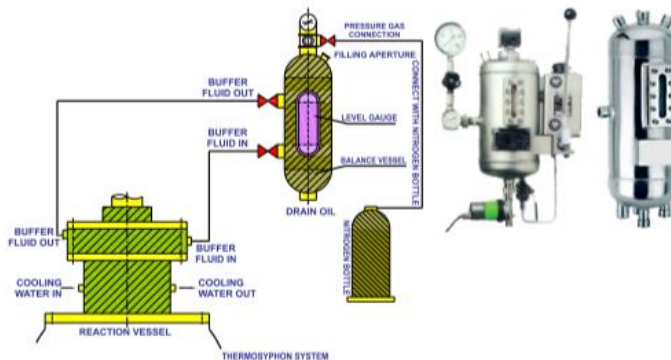
## OTHER AVAILABLE UNBALANCE AGITATOR SEAL



Visit us : [www.globeseal.com](http://www.globeseal.com)

## Thermosyphon

GLOBE STAR Thermosyphon System Series GTS-1 is basically used as a Storage & Pressurising unit. This is Used with Double Mechanical Seals in back to back or Tandem Seal Arrangement very effectively. This is Equipped with Cooling Coil to bring down the Temperature of Barrier Fluid coming from seal to Thermosyphon.



## Accessories

- Pressure Gauge (0-40 kg/cm<sup>2</sup>) - To Measure the Pressure Inside Vessel.
- Level Gauge : To Indicate the liquid level Inside the Vessel.
- Hand Pump : To Recharge the Thermosyphon vessel with Additional Quantity of Barrier Fluid when Thermosyphon is under Pressure and Liquid level is Low.

## Accessories

- Capacity - 7.5 Litres
- Design Pressure - 10 bar (kg/cm<sup>2</sup>)
- Hyd. Test Pressure - 15 Bar (kg/cm<sup>2</sup>)
- Max Working temp - 150°C
- Heat Transfer Area of Cooling Coil : 0.226 m<sup>2</sup>
- Cooling Water Flow Rate Recommended : 10 Litre/min

## Metal Parts

- **Thermosyphon Shell** : Carbon Steel  
: SS 304/SS 316
- **Cooling Coil** : SS 304/SS 316
- **Empty Weight** : 32 (kg/cm<sup>2</sup>)

## Metal Parts

- **Cooling Water Inlet** : 1/2" NPT (F)
- **Cooling Water Outlet** : 1/2" NPT (F)
- **Buffer Inlet** : 1/2" NPT (F)
- **Buffer Outler** : 1/2" NPT (F)
- **Pressure Gauge Connection** : 3/8" NPT (F)
- **Filling Connection** : 1/2" NPT (F)
- **Pressure Gas Connection** : 1/2" NPT (F)
- **Refilling Connection** : 1/4" NPT (F)
- **Drain** : 1/2" NPT (F)

## STAR TYPE



## TEXTILE - DIAPHARM SEAL



## MUD PUMP SEAL





**GLOBE STAR  
ENGINEERS (INDIA) PVT. LTD.**  
AN ISO 9001-2008 CERTIFIED COMPANY

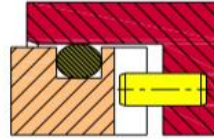
**STATIONARY  
SEAL FACES**



**L20**



**L10**



**H01**



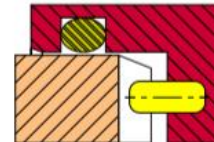
**T02**



**L13**



**C12**



**D03**

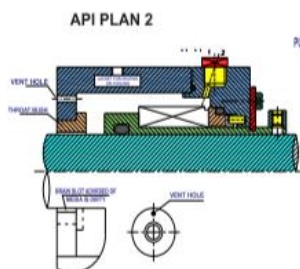


**L06**

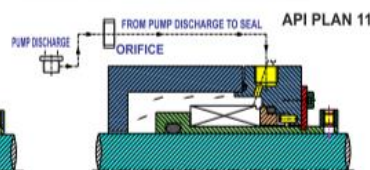


**GLOBE STAR  
ENGINEERS (INDIA) PVT. LTD.**  
AN ISO 9001-2008 CERTIFIED COMPANY

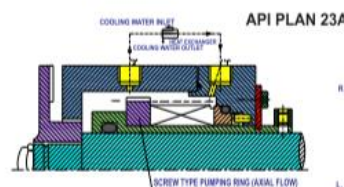
**API PLAN  
(Ref.API 682)**



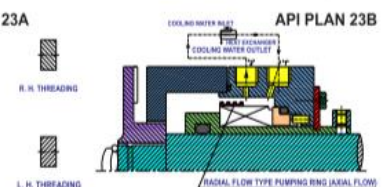
**NOTE :**  
DEAD ENDED SEAL BOX WITH NO CIRCULATION OF FLUSHED FLUID. WATER COOLED STUFFING BOX JACKET & THROAT BUSHING REQUIRED WHEN SPECIFIED. CONNECTION 1" & 2" PLUGGED FOR POSSIBLE FUTURE CIRCULATION.



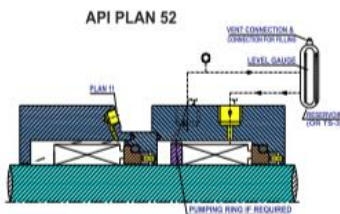
**NOTE :**  
RE-CIRCULATION FROM PUMP CASE THROUGH ORIFICE TO SEAL. CONNECTION 1" FOR FLUSHING INLET.



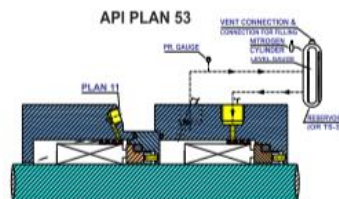
**NOTE :**  
RE-CIRCULATION FROM SEAL WITH PUMPING RING THROUGH COOLER AND BACK TO SEAL. CONNECTION 1" & 2" FOR CIRCULATION INLET & OUTLET.



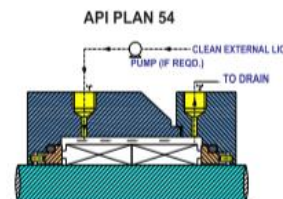
**NOTE :**  
RE-CIRCULATION FROM SEAL WITH PUMPING RING THROUGH COOLER AND BACK TO SEAL. CONNECTION 1" & 2" FOR CIRCULATION INLET & OUTLET.



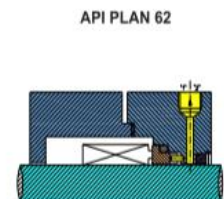
**NOTE :**  
CONNECTION 1" & 2" FOR FLUSHING INLET & OUTLET FOR OUTBOARD SEAL. NON PRESSURIZED THERMOSYPHON.



**NOTE :**  
CONNECTION 1" & 2" FOR FLUSHING INLET & OUTLET FOR OUTBOARD SEAL. PRESSURIZED THERMOSYPHON. RADIAL FLOW TYPE PUMPING RING.



**NOTE :**  
CONNECTION 1" & 2" FOR FLUSHING INLET & OUTLET.



**NOTE :**  
CONNECTION 1" & 2" FOR QUENCHING INLET & OUTLET.



**GLOBE STAR**  
**ENGINEERS (INDIA) PVT. LTD.**  
**AN ISO 9001-2008 CERTIFIED COMPANY**



AN ISO 9001-2008 COMPANY

**Registered Office & Manufacturing Unit :**

43, Nilkanth Estate, Nr. Bansari Estate, Opp. Police Station,  
G.I.D.C. Odhav, Ahmedabad - 382415 India

Phone & Fax : 07922970453 Mobile : +91 9825062744, 9574004240 / 39

Website : [www.globeseal.com](http://www.globeseal.com)

E-mail : [info@globeseal.com](mailto:info@globeseal.com) / [dhirajsiddhpura@yahoo.com](mailto:dhirajsiddhpura@yahoo.com)

**E-Mail : For Any Inquiry : [inquiry@globeseal.com](mailto:inquiry@globeseal.com)**