



**MAREDIAN
SEALS**

**SEALING THE FUTURE WITH
PRECISION & PERFORMANCE**



www.maredianseals.com



About Maredian Seals

Established with a vision to redefine sealing solutions, Maredian Seals is a premium manufacturer, supplier, and innovator in the field of mechanical seals and sealing systems.

We specialize in custom-engineered sealing solutions designed to perform under the most demanding industrial conditions. Our products are built with precision, ensuring leak-proof performance, durability, and long service life.

With a team of skilled engineers, advanced manufacturing practices, and a strong focus on quality, we deliver solutions trusted by industries ranging from petrochemicals and refineries to pharmaceuticals, food processing, and water treatment.

Our Strengths:

 Precision Engineering

 Custom Solutions

 Reliability & Performance

 On-Time Delivery

Our Mission

To empower industries with durable, high-performance sealing products that ensure zero downtime, maximum efficiency, and long-term value for our clients.

Our Vision

To become a global leader in sealing technologies, recognized for innovation, integrity, and excellence — pioneering solutions that safeguard processes, protect machinery, and support sustainable growth.

Why Choose Us

- ❶ **Innovation Driven** – Modern R&D for advanced sealing solutions
- ❷ **Quality Assured** – Stringent testing for durability & reliability
- ❸ **Industry Expertise** – Decades of technical experience
- ❹ **Customer Focused** – Tailored solutions for every need

Maredian Seals Product Range

Pusher Seals

Single Spring Seal

Multi Spring Seal

Textile Seal

Teflon Bellow Seals

Metal Bellow Mechanical

Boiler Feed Water Seals

Split Seals

High Pressure Seal

Dry Seals

Cartridge Single Acting

Cartridge Double Acting

Pusher Seals



Standard Style

- » **Face Materials:** Stellite, Carbon, Ceramic, Tungsten Carbide, Silicon Carbide, Lecrolloy
- » **Metal Parts:** SS 316, SS 304
- » **Secondary Seal:** Elastomers, PTFE

Seal Characteristics

- » Single acting
- » Unbalanced
- » Inside mounted
- » Dependent of direction of rotation

Operating Limits

- » **Shaft Diameter D1 :** 10 mm to 100 mm
- » **Pressure P :** 08 bar (max)
- » **Temperature T :** -20°C to +200°C
- » **Velocity V :** 20 m/sec



Applications

- » Water Pumps
- » Circulation Pumps for central heating
- » Chemical Process Pumps
- » Sewage and Submersible pumps

Single Spring Seal



Standard Style

- » Face Materials: Carbon/Stellite / Lecrolloy / Ceramic / Silicon Carbide / Plasma Sprayed Ceramic
- » Metal Parts: SS 316, SS 304
- » Secondary Seal: Nitrile, EPDM, Viton, PTFE

Seal Characteristics

- » Single acting
- » Unbalanced
- » Inside mounted
- » Dependent of direction of rotation

Operating Limits

- » Shaft Diameter D1 : 10 mm to 100 mm
- » Pressure P : 08 bar (max)
- » Temperature T : -20°C to +200°C
- » Velocity V : 20 m/sec



Applications

- » Water Pumps
- » Circulation Pumps for central heating
- » Chemical Process Pumps
- » Sewage and Submersible pumps

Multi Spring Seal

Features

- » Directly slip-on type hydraulically balanced seal design
- » Revolutionary concepts in design engineering
- » Near-universal applicability interchangeability with nearly all conventional seals and gland packings without pump or gland modification
- » No seal induced shaft damages saves hidden maintenance costs for shaft/sleeve repair/renewal
- » Lower price than conventional seals because of high degree of standardization
- » Uniform installation dimension for all sizes results in ease of handling

Application Data of seal type 707

- » **Seal Faces:** Carbon, Stellite, Plasma Sprayed Ceramic, Tungsten Carbide, Silicon Carbide
- » **Elastomer:** EPDM , Neoperene ,Viton, TEV, Kalrez
- » **Size range:** 16 to 150mm
- » **Pressure:** 35 bar
- » **Temperature:** 205°C

Applications

- » Industrial
- » Marine



Application Data of seal type 808

- » **Seal faces:** Carbon, Stellite, Plasma sprayed ceramic, Tungsten carbide, Silicon carbide
- » **Elastomer:** Viton®, Neoperene, Kalrez®, EPDM, TEV
- » **Size range:** 108mm to 150mm
- » **Pressure:** 35 bar
- » **Temperature:** 205°C

Textile Seal



Material Of Construction

- » **Sealing faces :** Carbon, Silicon Carbide, Tungsten Carbide, Chrome Cast Steel & which are suitable for fluid
- » **Elastomer :** Viton, EPDM, Silicon, Aflas, PTFE, Hypalon
- » **Hardware :** SS 316, Hastelloy C, Monel, Alloy 20

To Be Use For

- » Caustic
- » Acidic
- » Sodium Hydrogen Carbonate

Operating Limits

- » **Shaft Diameter :** As per machine required
- » **Pressure :** Normal
- » **Temperature :** Normal

Part Of Identification

- » **Rotary Face (Seal Ring)**
- » **Stationary Face (Mating Ring)**
- » **Elastomer**
- » **Spring**
- » **Other Hardware**



Teflon Bellow Seals



Standard Style

- » Face Materials: GFT / CFT / Silicon Carbide / Ceramic
- » Metal Parts: SS 316, SS 304, Hastelloy-C
- » Springs: Teflon Covered Spring Steel, S.S.316 , S.S.304 , Hastelloy-C
- » Secondary Seal: PTFE Bellows

Seal Characteristics

- » Single acting
- » Outside mounted
- » Multi Spring & Single Spring Design
- » Independent of direction of rotation

Operating Limits

- » Shaft Diameter d1 : 19mm to 150mm
- » Pressure p : 6 bar (max)
- » Temperature t : -45+1200C
- » Velocity v : 16 m/sec

Applications

- » Extremely corrosive services



Metal Bellow Mechanical



Materials

- » **Faces :** Carbon, Silicon Carbide, Tungsten Carbide.
- » **Elastomers :** Graphite, Perflouro, FEP.
- » **Hardware :** SS-316, AM-350, Hastelloy-C, Alloy-20

Operating

- » **Pressure :** 25 bar
- » **Temperature :** -40°C to 350°C
- » **Speed :** 20 m/s
- » **Sizes :** 25 mm to 100 mm



Application

- » High Temperature, Hydrocarbons & Critical Services

Boiler Feed Water Seals



Standard Style

- » Face Materials: Stellite, Carbon, Ceramic, Tungsten Carbide, Silicon Carbide, Lecrolloy
- » Metal Parts: SS 316, SS 304
- » Secondary Seal: Elastomers, PTFE

Seal Characteristics

- » Single acting
- » Unbalanced
- » Inside mounted
- » Dependent of direction of rotation

Operating Limits

- » Shaft Diameter d : 65 ... 150 mm
- » Pressure p : 50 ... 140 bar (max)
- » Temperature t : - 20 ... +2500 C (API plan 23)
- » Velocity v : more then 50 m/sec

Application

- » Water Pumps
- » Circulation Pumps for central heating
- » Chemical Process Pumps
- » Sewage and Submersible pumps



Split Seals



Standard Style

- » **Face Materials:** Carbon / Silicon Carbide / Ceramic
- » **Metal Parts:** SS 316, SS 304
- » **Secondary Seal:** Elastomers

Seal Characteristics

- » Fully Split Components
- » Ease of Installation
- » Balanced Seal Faces

Operating Limits

- » Shaft Diameter d : 50....200 mm
- » Pressure p : 15 bar (max)
- » Temperature t : Amb.... 1400 C
- » Shaft speed : 3600 rpm (max)

Application

- » Utility Pumps
- » Transfer Pumps
- » Agitator and Vessels
- (As Dry Running Seal)



High Pressure Seal



Standard Style

- » Face Materials: Carbon / Silicon Carbide / Tungsten Carbide
- » Metal Parts: SS 316, SS 304, Hastelloy-C, Titanium, Alloy-20, Monel
- » Secondary Seal: Elastomers

Operating Limits

- » Shaft diameter d1 : 25.....115 mm
- » Pressure p : 25....150 bar
- » Temperature t : _ 40.....1800 C
- » Velocity v : 20 m/sec

Seal Characteristics

- » Single acting
- » Balanced
- » Inside Mounted
- » Independent of direction of rotation
- » Multiple springs design
- » Sturdy drive mechanism

Application

- » Oil Pipeline Pumps
- » Boiler Feed Water Pumps



Dry Seals



Materials

- » **Housing:** Stainless steel
- » **Product-wetted parts:** Stainless steel, Hastelloy, Titanium, special materials
- » **Seal rings:** Carbon, Silicon Carbide, Tungsten Carbide, etc
- » **O-rings:** Viton, EPDM, Perfluor elastomers, special elastic materials
- » **FDA-approval:** Possible for all product-wetted parts

Application

- » **Flue gas desulfurization (FGD)**
- » **Hydrometallurgy**
- » **Pharmacy**
- » **Biotechnology**



Application Limits

- » **Vessel pressure:** Vacuum ... 16 bar (abs.)
- » **Vessel temperature:** -50 ... +200° C
- » **Shaft size:** 40 ... 300 mm
- » **Sliding speed:** 5 m/s

Cartridge Single Acting



Standard Style

- » **Face Materials:** Tungsten carbide and ceramic, secondary seal
- » **Metal Parts:** SS 316, SS 304, Hastelloy – C, Hastelloy – B, Monel, Alloy – 20
- » **Secondary Seal:** Elastomers, TCV, PTFE

Seal Characteristics

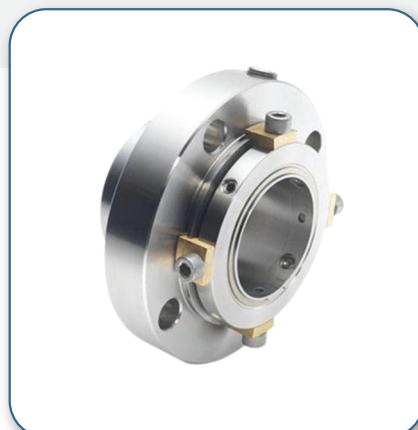
- » Single acting
- » Reverse Balanced
- » Outside Mounted
- » Independent of Direction of rotation
- » Dry Running

Operating Limits

- » **Shaft Diameter d :** 15 ... 150mm*
- » **Pressure p :** Vacuum 8 bar (max)
- » **Temperature t :** Amb. 1200 C (max)
- » **Speed n :** 320 rpm

Application

- » Food Products
- » Pharmaceutical Products



Cartridge Double Acting



Standard Style

- » **Face Materials:** Carbon , Ceramic, Silicon Carbide, Tungsten Carbide, Lecrolloy
- » **Metal Parts:** SS 316, SS 304, Carbon Steel, Hastelloy-B,Hastelloy-C, Monel, Alloy -20
- » **Secondary Seal:** Inboard – PTFE, GFT : Outboard – Elastomers

Seal Characteristics

- » Double acting Back to Back Seals
- » Balanced
- » Cartridge Unit
- » Independent of Direction of Rotation
- » Operated with Pressurised Barrier Fluid

Application

- » Petrochemicals and its vapours
- » General Chemicals and its vapours
- » Light hydrocarbons and its vapours

Operating Limits

- » Shaft Diameter d : 25150mm*
- » Pressure p : Vacuum 35 bar (max)
- » Temperature t : Amb. ... 2000c (max)
- » Shaft speed n : 600 rpm. (max)
- » Barrier fluid pressure : Vessel pressure + 1.5 bar



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