



## Mechanical Seals



Designers and Manufactures of Mechanical  
Seals & Seal support systems

## NMG- Series(1,12,13,1S20)

Mechanical seal-inside mounted Rubber bellows, Unbalanced, Independent on Direction of Shaft Rotation,

**Pressure:-**Max:16kg/Sq.Cm,

**Temperature:** Max:-20to120C°,

**Applications:** Water, Oil, Light Liquids.



## N502- Series

Mechanical seal- Inside Mounted Rubber bellows Unbalanced, Independent on Direction of Shaft Rotation.

**Pressure:-**Max:16kg/Sq.Cm,

**Temperature:** Max:-20to120C°,

**Applications:** Water, Oil, Light Liquids.



## NSSUW/NSSUO- Series

Mechanical seal- Inside Mounted, Single Spring Unbalanced & Balanced, Dependent on Direction of Shaft Rotation,

**Pressure:** - Max: 10 to 20kg/Sq.Cm,

**Temperature:** Max:-20to 200C°,

**Applications:** General Chemicals, petro Chemicals, Oils, Light Slurries.



## NCSUO - Series

Mechanical seal- Inside Mounted, Single Conical Spring, Unbalanced & Balanced, Dependent on Direction of Shaft Rotation,

**Pressure:** - Max: 10 to 20 kg/Sq.Cm,

**Temperature:** Max:-20to 200C°,

**Applications:** Water, General Chemicals, Solvents, Oils.



## NMSUO/NMSBO- Series

Mechanical seal- Inside Mounted, Multi Spring Unbalanced & Balanced, Dual directional of Shaft Rotation,

**Pressure:** - Max:10 to 35kg/Sq.Cm,

**Temperature:** Max:-20to200C°,

**Applications:** General Chemicals, Petro Chemicals, Oils, Light Slurries, Light Hydrocarbons.



## NM7N/NM7NB-Series

Mechanical seal- Inside mounted, Wave Spring Unbalanced & Balanced, Dual Directional of Shaft rotation,

**Pressure:-** Max:10 to 35 kg/Sq.Cm,

**Temperature:** Max:-20to 200C°,

**Applications:** General Chemicals, Petro Chemicals, Oils, Light Slurries, Light Hydrocarbons.



## NHJ92- Series

Mechanical seal- Inside Mounted, WaveSpring, Balanced, Dual Directional of Shaft Rotation,

**Pressure:** - Max: 25kg/Sq.Cm,

**Temperature:** Max:-20to200C°,

**Applications:** General Chemicals, Petro Chemicals, Oils, Light Slurries, Light Hydrocarbons.

## NRA-Series

Mechanical seal- Out Side Mounted, Multi Spring, Reverse Balanced, Dual directional of Shaft Rotation,

**Pressure:-** Max:10kg/Sq.Cm,

**Temperature:** Max:-20 to120C°,

**Applications:** Water, General Chemicals, Light Slurries, Corrosive Chemicals.



## NSOC- Series

Mechanical seal- Inside mounted, Multi Spring, Balanced, Dual Directional of shaft rotation,

**Pressure:-** Max:25kg/Sq.Cm,

**Temperature:** Max:-20to200C°,

**Applications:** General Chemicals, Petro Chemicals, Oils, Light Slurries, Light Hydrocarbons.



## NTB-Series

Mechanical seal- Out Side Mounted, Reverse Balanced, Teflon Bellow, Dual directional of Shaft Rotation,

**Pressure:-** Max:6kg/Sq.Cm,

**Temperature:** Max:-20to100 C°,

**Applications:** Water, General, Corrosive Chemicals, Phosphoric Acids, Sulphuric Acids,



## NMB- Series

Mechanical seal- Inside Mounted, Metal Bellow, Dual Directional of Shaft Rotation,

**Pressure:-** Max:25kg/Sq.Cm,

**Temperature:** Max:-20to400C°,

**Applications:** High Temperature & High vacuum, Thermic Fluid, General Chemicals, Petro Chemicals, Oils, Light Slurries, and Hydrocarbons.



## NFBO – Series

Mechanical seal- Inside Mounted, Formed Bellow, Dual directional of Shaft Rotation,

**Pressure:-** Max:25kg/Sq.Cm,

**Temperature:** Max:- 20to200C°,

**Applications:** General Chemicals, Petro Chemicals, Oils, Light, Medium Slurries, Light Hydrocarbons.



## N-CART- Series

Single and Double Cartridge Seals.  
Internal Dual Balanced design,  
Runs cooler and lasts longer.  
Fits standard ANSI Pumps.No modifications required. Incorporating a cost effective design.

**Pressure:** Max: 25kg/Sq.Cm,

**Temperature:** Max: 40to 220C°,

### General Applications:

Petrochemical industry  
Chemical industry  
Pharmaceutical industry  
Power plant technology  
Pulp and paper industry  
Mining industry  
Food and beverage industry



## NSE2- Series

Single and Double Cartridge Seals.  
Internal Dual Balanced design,  
Runs cooler and lasts longer.  
Fits standard ANSI/API Pumps.  
No modifications required..

**Pressure:** Max: 25kg/Sq.Cm

**Temperature:** Max: -40 to 220C°,

### For Special Applications:

Pulp and paper industry  
Chemical industry  
Sewage, MEE/ZLD Plants  
Mining industry  
Food and beverage industry.

## NB2-Series

Single and Double Cartridge Seals.  
Internal Dual Balanced design,  
Fits standard ANSI/API Pumps.

**Pressure:** Max: 35kg/Sq.Cm,

**Temperature:** Max: -40 to 250C°,

### High Pressure Applications:

Pulp and paper industry  
Petrochemical industry  
Chemical industry



## N-50- Series

Single and Double Cartridge Seals.  
Dual Balanced design,  
Fits standard ANSI Pumps, No modifications required.

**Pressure:** Max:25kg/Sq.Cm,

**Temperature:** Max: -40to 220C°,

### Light Slurries Applications:

Petrochemical industry  
Chemical industry  
Pharmaceutical industry  
Power plant technology  
Pulp and paper industry  
Mining industry  
Food and beverage industry



## N-SPLIT SEAL- Series

A split seal has components split into two equal halves which are secured as one unit on the seal shaft. The major advantage of the split seal design is that it allows you to install the seal with no dismantling of the pump (or equipment)—

**Pressure:** Max:20kg/Sq.Cm,

**Temperature:** Max: 120C°,

### Applications:

General Chemicals, Petro Chemicals, Oils, Water, Pulp and Paper.Mining industry



## N-5200- Series

Single and Double Cartridge Seals.  
Dual Balanced design,  
Fits standard ANSI/API Pumps, No modifications required.

**Pressure:** -Max: 25kg/Sq.Cm

**Temperature:** Max: -40to 220C°,

### Medium Slurries Applications:

Petrochemical industry  
Chemical industry  
Pharmaceutical industry  
Power plant technology  
Pulp and paper industry  
Mining industry  
Food and beverage industry



## N-MBD -Series

Single and Double Cartridge Seals.  
Dual Balanced design,  
Fits standard ANSI/API Pumps, No modifications required.

**Pressure:** Max: 20kg/Sq.Cm

**Temperature:**Max: 40to 400C°,

### High Temperature Applications:

Petrochemical industry  
Chemical industry  
Pharmaceutical industry  
Power plant technology  
Pulp and paper industry  
Mining industry  
Food and beverage industry



## NSL- Series

Single Cartridge Seals.  
Balanced design,  
Fits standard API Pumps,  
No modifications required.

**Pressure:** -Max: 25kg/Sq.Cm

**Temperature:** Max: -40to 220C°,

### Heavy Slurries Applications:

Chemical industry  
Pharmaceutical industry  
Mining industry



## NDS - Series

Single Dry Mechanical Seal for Stainless Steel Reactor and Glass Lined Reactors

**Pressure:** Vacuum to 6kg/Sq.Cm,

**Temperature:**Max: -160 C°,

**Speed :-** Up to 180 RPM

### Applications:

Bulk Drug industry  
Pharmaceutical industry



## NDSH- Series

Single Dry Mechanical Seal with Housing,/Bearing for Stainless Steel Reactor and Glass Lined Reactors

**Pressure:** Vacuum to 6kg/Sq.Cm,

**Temperature:** Max: -220 C°,

**Speed :-** Up to 220 RPM

### Applications:

Bulk Drug industry  
Pharmaceutical industry  
Food and beverage industry



## NDMS- Series

Double Mechanical Seal For Stainless Steel Reactor and Glass Lined Reactors

**Pressure:-**Max: 35kg/Sq.Cm

**Temperature:** Max: -40 to 250C°,

**Speed :-** Up to 300 RPM

### Applications:

Bulk Drug industry  
Pharmaceutical industry  
Food and beverage industry



## NHMS- Series

High Pressure Double seals

**Pressure:-**Max: 60kg/Sq.Cm,

**Temperature:** Max: -40 to 250C°,

### High Pressure Applications:

Bulk Drug industry  
Pharmaceutical industry  
Petrochemical industry  
Mining industry



## NHSDS- Series

High Speed Double Mechanical Sealsfor Mixers And Pressure Screens

**Pressure:-**Max: 20kg/Sq.Cm

**Temperature:**Max: 220C°

**Speed :-**,3000

### Applications:

Petrochemical industry  
Chemical industry  
Pharmaceutical industry  
Power plant technology  
Pulp and paper industry  
Mining industry  
Food and beverage industry



## NBMS- Series

Double mechanical seals For Bottom Entry, Side Entry Mixers

**Pressure:-** Max:25kg/Sq.Cm,

**Temperature:** Max: 200C°,

### Applications:

General Chemicals,  
Petro Chemicals, Oils, Water, Pulp and Paper, Mining industry



## N-ANFD-Seriesa

Double Mechanical Seals ForAgitated Nutsche Filter

**Pressure:-**Vacuum to 8 kg/Sq.Cm

**Temperature:**Max: -40to 200C°,

### Applications:

Bulk Drug industry  
Pharmaceutical industry  
Food and beverage industry



## N RU- Series

Rotary Joints, Unions

**Pressure:** Vacuum to 6kg/Sq.Cm,

**Temperature:** Max: -200 C°,

### Applications:

Pulp and paper industry  
Bulk Drug industry  
Pharmaceutical industry  
Food and beverage industry  
For RCVD,RVPD, PAPER MACHINE ,Etc







### NTS- Series

Thermosyphon vessels can be used to provide a source of clean, Pressurized barrier fluid to Double mechanical seals

**Capacity** : 7.5 and 10 Liters

**NTS 20 Pressure Limit** : 20 bar

**NTS 40 Pressure Limit** : 40 bar

Temperature : Up to 200°C



### N - API23 /21- Series

API Plan 23/21 Heat Exchanger. Recirculation from a circulation device in the seal chamber through a cooler and back into the seal chamber.

In hot and clean services e.g. in boiler feed water and hot hydrocarbon services



### N-API 31- Series

API Plan 31 Cyclone separators

Cyclone separators are typically used in an API Plan 31 arrangement and incorporated in the seal flush line (API Plan 11 ) from the discharge of the pump.

Removes entrained solids from the process fluid . Particles from cyclone separator are returned to suction. Ensure use for services containing solids with specific gravity twice or more than that of process fluid



### N-API 53A- Series

API Plan 53A utilizes a reservoir and circulates a pressurized barrier fluid between the inboard and outboard seals. The typical source of pressurization is plant nitrogen. The reservoir should be set at least 20 psi (1.3 bar) above maximum seal chamber pressure . Isolate process fluids. Zero process emissions



### BEARING ISOLATORS



### N-API53B -Series

API Plan 53B Accumulator-based seal support systems,utilize a bladder to maintain system pressure to pressurized dual seals and absorb barrier fluid thermal expansion while separating the pressurizing gas and barrier fluid.

Hazardous, toxic, inflammable media Services compatible



### N-API 53C- Series

API-53C accumulator-based seal support systems utilize a piston to maintain system pressure to pressurized dual seals and absorb barrier fluid thermal expansion while separating the pressurizing gas and barrier fluid



### N-API 54- Series

Pressurized external barrier fluid circulation from a central pressure source or by a standalone pumping unit .lubrication systems provide a positive flow and pressure. This seal support system type is typically preferred where flow and heat removal capacity exceeds that of API Plan 52,53, seal support systems.



### N-API 74-Series

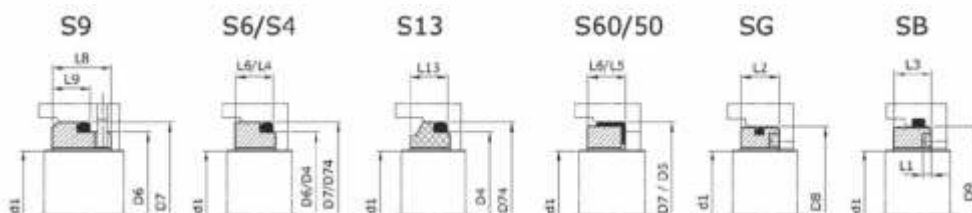
Gas Panels.system provides a clean, dry, regulated supply of pressurized barrier gas usually nitrogen. barrier gas supplied through a gas control system to a dual seal arrangement. An inert gas is used as a barrier gas.



### N-SAFE UNIT-Series

Seal Water Control and Monitoring System.Safeunit is specially designed to control seal water flow and pressure in extreme conditions. This makes it ideal for extreme applications found in pulp, paper and chemical industry processes, plus a wide variety of mining and general industrial uses.

## STATIONARY SEAL FACES



# NIXON SEAL REPAIR PROGRAM

## TRUST THE EXPERTS TO HANDLE THE REPAIR



Nixon Seal has an on-going commitment to repair any mechanical seal style regardless of the manufacturer. Our repair reputation is built on evaluation, analysis, and troubleshooting seal failure with a focus on providing reliable, long-term solutions. To meet our customers' needs we maintain a staff of experienced repair technicians, provide on-site technical support, and offer customized repair and exchange programs.

Our repair facilities are staffed with knowledgeable product support teams and advanced diagnostic and machining capabilities. Faster response time for critical sealing needs.



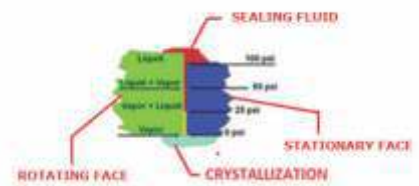
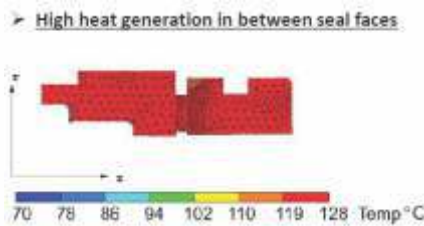
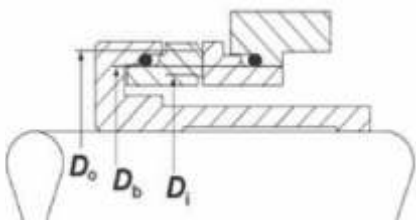
Nixon seals have an Experienced Application Engineering team which can provide complete RCA's ( Root cause analysis )when required, as well as upgrade solutions for your Bad Actor mechanical seals. We can provide the case stories to you in detail should you require.

Nixon Seals offers various competitor seal repair and exchange programs. Contact us to discuss your specific needs

Nixon seals manufacture hard and soft mechanical seal faces and metal parts locally ,and have extensive stock of Resin and Antimony Carbon, Silicon Carbide blanks ,elastomers, springs, screws, etc., which provides us the ability to turnaround the mechanical seal repairs in hours during critical situations.

## REVERSE ENGINEERING:

Sometimes a failed seal is no longer a candidate for repair; Nixon seals provide straightforward solutions from our comprehensive seal lines or upgraded options designed for your unique operating environment.



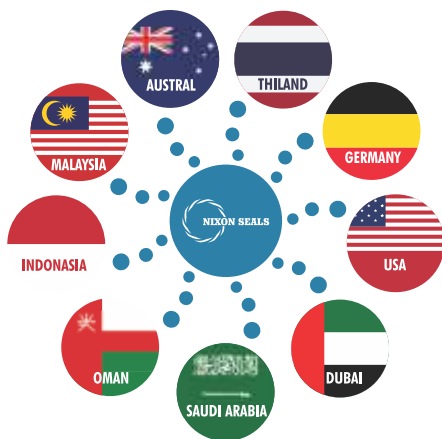
## ANNUAL MAINTENANCE CONTRACT:

Nixon seals will take complete accountability of Seal Supply, Service, MTBF,RCA's (Root cause analysis), Application Engineering, Equipment reliability, Stock Planning at site, Manpower at Site for Installation, Static pressure test at site Work Shop,Maintain Equipment, Seal History by ERP.

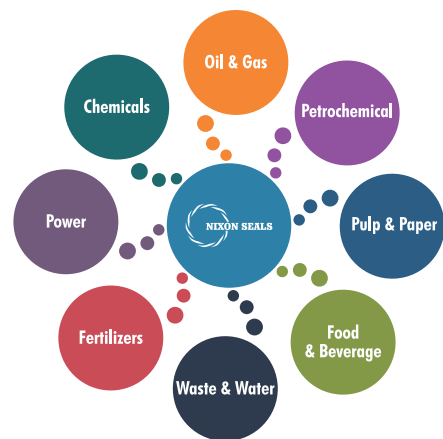
Objective is to Increase MTBF, Equipment, sealsReliability. Improve Quality, Reduce Maintenance Cost



## NIXON SEALS EXPORTING WORLD WIDE



## NIXONSEALS INDUSTRY WISE SERVE



### Register Office

Meher Enclave, Flat No: 502, Prakash Nagar, Hafeezpet  
Hyderabad - 500019. | [www.nixonseals.com](http://www.nixonseals.com) | Mobile: 9652 352 538, 7331 127 790.