

IDENT-A-SEAL

NDA offers a complete mechanical seal service covering identification, refurbishment & supply of most brands & styles of seal. This service relies on years of experience & knowledge of the market. There are so many styles, sizes & variations that this

SEAL IDENTIFICATION GUIDE

is purely an aid to both parties to initially confirm the style of common seals so that we can then apply our expertise to confirm selection.

Multi spring balanced seals, cartridge seals & specials would be dealt with individually.

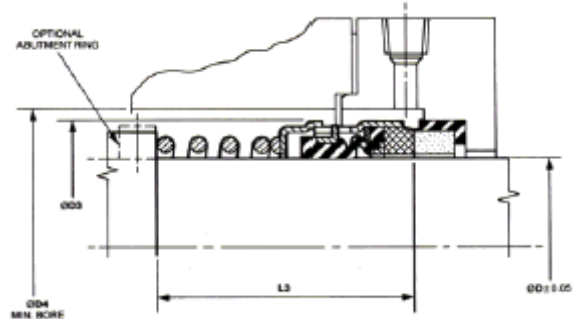
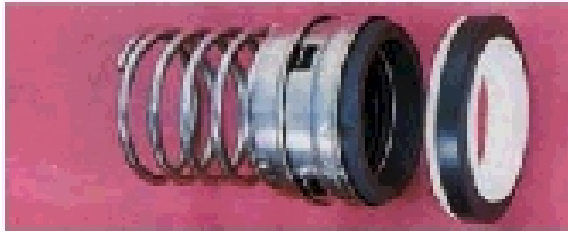
If you have any queries please do not hesitate to contact us as
WE ARE HERE TO HELP YOU.

We need to know:

1. Style of seal
2. Accurate shaft diameter where seal locates
3. Diameter of counterbore in pump housing where seat is located
4. Seal face materials
5. Elastomer or details of fluid with temperature, concentration, etc
6. Direction of spring winding for IS 6 & 7

SEAL IDENTIFICATION GUIDE™

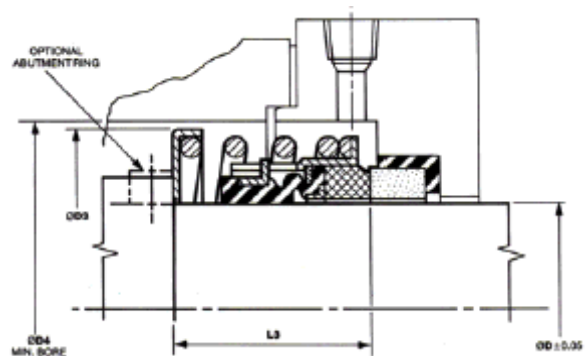
IS 1



Generally marked 'CRANE' on rubber bellows.

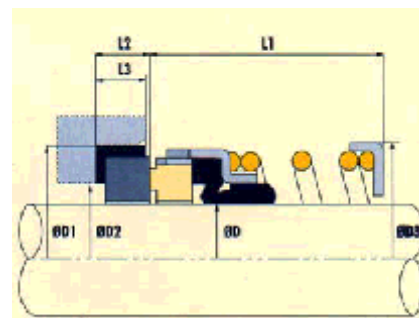
Robust parallel spring sits behind bellows assembly to give long slim seal. Rubber bellows forms seal around shaft and is tight fit to rotate seal face against seat. Spring only pushes faces together.

IS 2



Generally marked 'CRANE' on rubber bellows. Bellows assembly locates inside robust parallel spring to give shorter working length but larger outside diameter.

IS 3

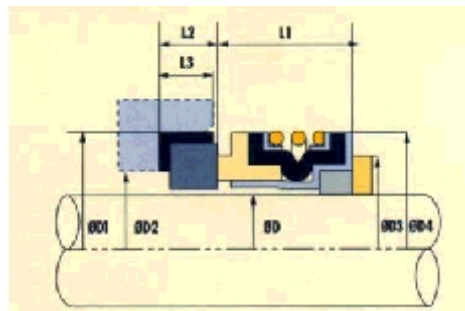


Basic rubber bellows style rotary available in a wide range of sizes to interchange with major brand seals & to suit DIN dimension pumps. Bellows assembly locates inside easily compressed parallel spring.

SEE PAGE 6 FOR FACE MATERIAL, ELASTOMER & SEAT STYLE GUIDE

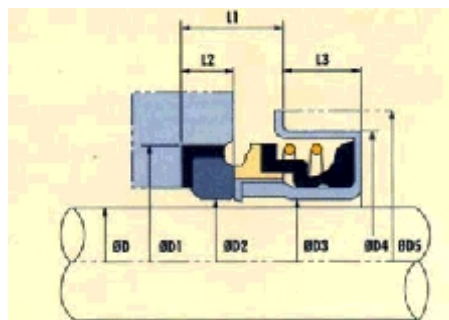
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IS 4



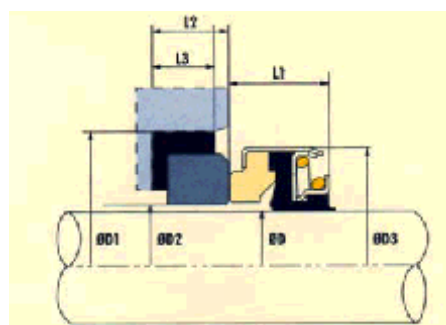
Mainly for Imperial size shafts 3/8" - 1" diameter on swimming pool pumps and vehicle water pumps. Standard faces resin/carbon against ceramic.

IS 5



As for IS4 but on some pumps seat is replaced by a machined face on pump impeller or housing.

IS 6

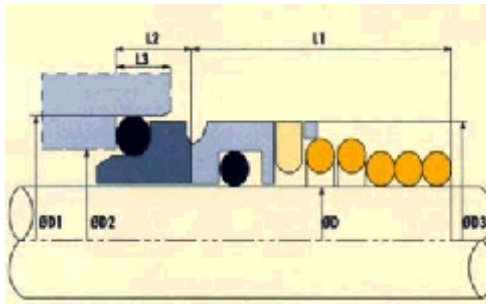


Very short seal, rubber bellows enclosed in pressed steel housing sometimes with identification number stamped around circumference. Generally carbon against ceramic faces. Metric sizes only.

SEE PAGE 6 FOR FACE MATERIAL, ELASTOMER & SEAT STYLE GUIDE

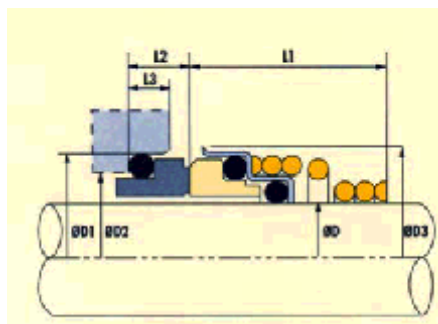
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IS 7



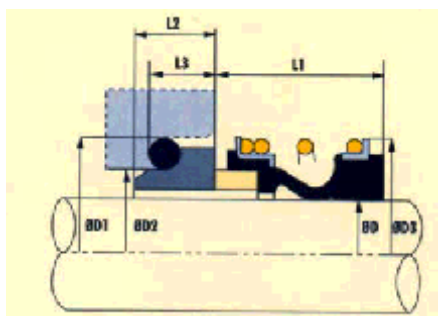
Generally O ring mounted carbon seat, solid stainless steel rotary face (sometimes with carbon, Tungsten or Silicon insert). Tapered spring grips shaft to give drive so direction of winding is important O ring seals rotary head to shaft. Metric sizes only.

IS 8



As IS7 but standard is carbon seat with ceramic rotary face located in pressed steel head. Metric sizes only.

IS 9

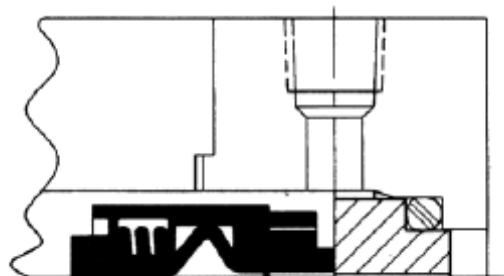


Robust single spring enclosed rubber bellows seal. Sometimes has 'Burgmann' and style number moulded into rubber bellows next to seal face insert. Metric sizes only.

SEE PAGE 6 FOR FACE MATERIAL, ELASTOMER & SEAT STYLE GUIDE

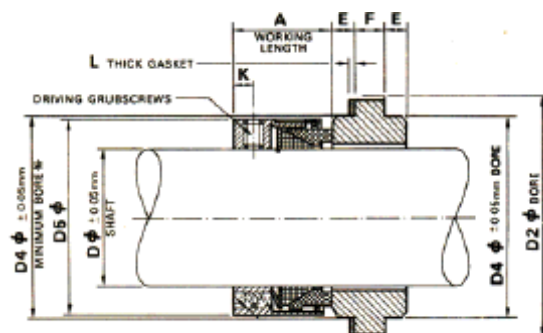
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IS 10



Robust, single spring rubber bellows seal fully enclosed in steel casing. Generally has identification number on components. Metric sizes only.

IS 11



Machined stainless steel housing fixed to shaft with grub screws, contains several small springs around circumference. Has PTFE wedge to seal between face and shaft.

SEE PAGE 6 FOR FACE MATERIAL, ELASTOMER & SEAT STYLE GUIDE

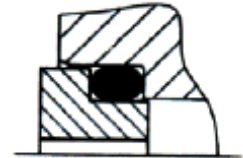
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Seat Styles

A) Cup Mounted



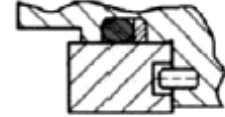
B) L cross section seat, O ring mounted or PTFE washer in place of O ring. Also long version with pin slot behind O ring.



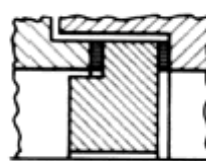
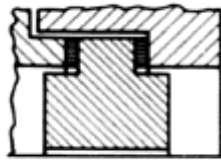
C) O ring mounted, groove in seat OD. With or without pin hole/slot



D) Block type seat sealed by O ring in groove in pump housing. With or without pin hole/slot



E) Clamp in seat
T or L cross section



FACE MATERIALS

Carbon - Black material similar to pencil lead/graphite can be scraped with knife or file.

Ceramic - White/cream or brown, fairly hard wearing but brittle. Easily discolours as porous.

Tungsten - Dull grey colour, shiny when polished. Heavy, dense material, hard but robust.

Silicon Carbide - Black material, very hard but brittle. Lightweight

Steel - Generally Ni-resist or Stainless Steel. Wears badly, can be remachined.

ELASTOMERS

Nitrile - General purpose & oils. Temperature range -40 to $+110^{\circ}\text{C}$

Neoprene - Generally for Refrigerants. Temperature range -40 to $+110^{\circ}\text{C}$

Viton - Generally for chemicals & high temperatures. Temperature range -25 to $+205^{\circ}\text{C}$

EP - Generally for hot water & some chemicals. Temperature range -50 to $+150^{\circ}\text{C}$

NDA Engineering Equipment Limited

01234 855030

MECHANICAL SEALS



If you are replacing a current seal “like for like” or fitting a direct equivalent we can cross reference part numbers or identify from samples. Refer to our “Ident-A-Seal” publication if applicable.

We supply & stock a wide range of seals from several manufacturers such as :- John Crane, Flexibox, Sealol, Cyclam, Roten, Merkel, etc

If you wish to uprate your current seal or require a mechanical seal for a new application we have call upon extensive knowledge & assistance from major seal companies with numerous solutions to help you.

To compliment our supply of new seals we offer a comprehensive refurbishment service covering most types of seals. This can involve cleaning, re-lapping faces & fitting new O rings. Or making new components complete, returning a used seal to as new condition for approximately 50% of new seal price for long term economy.



Our mechanical seal range is probably one of the widest in the UK, giving you, what you want.
Not, what a pressure salesman wants to sell you !



N D A Engineering Equipment Limited

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ENGINEERING PLASTICS

Sheet, Bar and Tube
Nylon, Acetal, PVC, PTFE
Polycarbonate, Polypropylene...
PVC Doorstrip and Hangers.

PTFE PRODUCTS

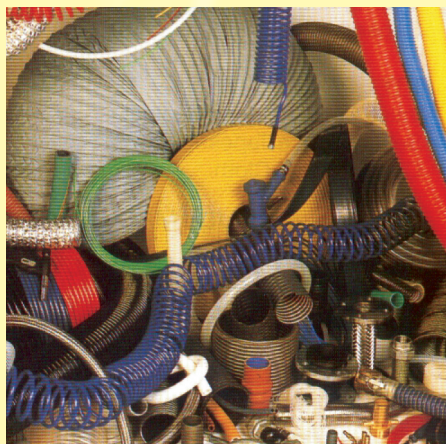
Valve packing, Joint sealant
Self adhesive tapes
Coated glass cloth.

ADHESIVE

Retainer, Threadlock
Sealing and Gasketing
Superglue, RTV silicon.

BOILER PRODUCTS

Ceramic and Fibreglass: Rope,
Ladder tape and Webbing
Door joints, Sight glasses
Packing sleeves, Cones
Insulation products.



Personal and friendly attention
Deliveries to suit YOU
Competitive prices
Non-standards a speciality

RANGE OF RUBBERS

Solid and sponge
Neoprene, Silicon, Insertion, Viton
Mouldings and Extrusions
Cut strips and self adhesive
Fabricated seals, Conveyor belts
Polycord, Sleeves and Bellows.

HOSE AND DUCTING

Rubber, PVC, Nylon, PTFE, SS
Various styles and assemblies
Air and water guns
Fittings and couplings.

MECHANICAL SEALS

Most manufacturers and designs
From simple bellow / 'O' ring
styles to technical cartridges.
Identification and refurbishment.

GASKETS

Sheet material, Spiral wound
Hand and machine cut
Rubber, fibre, cork, graphite...

COMPRESSION PACKING

PFTE, Kevlar, Graphite.
Full boxes, Cut lengths, rings
Extractors, tips and cutters.



HYDRAULIC AND PNEUMATIC SEALS

'O' Rings, 'V' Seals, 'U' Rings
Cup seals, Dirt wipers etc.

TRADE COUNTER Tel: Bedford **DELIVERY SERVICE**

01234-855030

Monday-Friday: 8.15am-5.00pm

