

# Serving All Your Metric Needs...

## ROTARY SHAFT SEALS

### SYNTHETIC RUBBER SEALS

Form A - a single lip seal incorporating rubber covered o.d. This design can accommodate rough housing bore surfaces and should be used when thermal expansion of the housing would prohibit the use of steel cased seals. **Form AS** - as form A, but incorporating an auxiliary dust lip for the exclusion of dirt. **Form B** - a metal o.d. seal used where metal to metal housing to seal contact is required. Numerous designs are available in a range of materials including Nitrile, Viton and Silicone.



### LEATHER SEALS

Leather seals are still widely used for applications where conditions are not suitable for synthetic materials - for example cases on inadequate lubrication or poor shaft finish.

A comprehensive range is always available from stock but the method of manufacture enables us to supply bespoke items without the need for expensive tooling charges.



### SPLIT SEALS

Split seals were developed for use where cost and downtime are of paramount importance - for example in heavy plant and marine applications where flanges or abutments prevent the seal being fitted along the shaft or where the strip down cost are high.

Seals are all rubber and can be cut to requirements. We also offer 24 hour emergency service for most sizes.



### HEAVY DUTY FACE SEALS

Heavy duty mechanical face seals are designed principally to offer improved bearing protection whenever sealing is required in severe environments. Examples include track roller sealing on earth moving equipment.



## HYDRAULIC SEALS

### DISTRIBUTOR SEALS -EXTERNAL

Used to seal piston heads, external distributor seals offer the same characteristics as internal distributor seals. Again materials include Nitrile, Viton and Polyurethane.



### CUP PACKINGS

Cup seals are one of the oldest types of piston head seal, and are renowned for their ability to perform well in arduous applications.

Easy to install, cup seals offer a long service life and are available in a wide range of sizes and materials, including various synthetic rubbers, leather, fabric and polyurethane.



### HAT PACKINGS

Hat packing are a quality wiper/scrapper used in hydraulic and pneumatic applications on reciprocating shafts, rods and stems. Depending on size requirements, hat packings can be supplied in rubber, leather and polyurethane materials.



### WIPERS

We hold a large range of rod wiper seals designed to give premium protection to hydraulic and pneumatic cylinders by excluding water, dust, dirt, etc.

Wipers are manufactured from nitrile with nominal shore hardness of 90 deg. Heavy duty wipers are also available incorporating plastic or brass scraper lips for rod sizes .375" to 12" diameter.

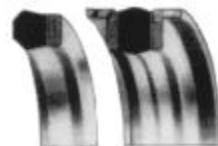


## HYDRAULIC SEALS

### FLUID SEALS

We offer hydraulic equipment manufacturers and users a comprehensive range of seal profiles, compounds and sizes to suit a host of applications.

A wide range of pressure seals for piston heads and gland housings are available from stock in metric and imperial sizes for single or double acting cylinders.



### V PACKS/CHEVRONS

A versatile seal design for use in many types of reciprocating hydraulic equipment.

Manufactured from a variety of fabric/rubber compounds and polyurethane combinations.



### U RINGS

U Rings are popular seals for medium duty pneumatic and low pressure hydraulic applications. A wide selection of sizes in various materials are available including synthetic rubbers, fabrics and polyurethane.



### DISTRIBUTOR SEAL-INTERNAL

A general purpose rod seal used to seal mineral oil, water and water-oil emulsions at pressures up to 160 bar. Materials include Nitrile, Viton and Polyurethane.



## VARIOUS

### CIRCLIIPS

An extensive stock of circlips is held for standard internal and external applications.

Variant designs such as 'E' rings, plain wire etc. are available on request.



### SHEET AND DIAPHRAGM MATERIAL

To compliment our total sealing package we stock a range of diaphragm and moulded Calendered sheet material, which is available to companies specializing in gasket cutting and to the small workshop wishing to hand cut their own.



### GASKET/SPECIAL MOULDINGS

We have the facility to produce a vast range of gaskets and joints in a variety of materials including rubber, cork and C.A.F. in sizes and shapes ranging from small washers to large segmented gaskets, in many cases on a 24 hour basis.

Customer mouldings are our specialty in virtually any material. Please discuss your requirements with our technical department.



### SEALANTS

A range of adhesives and tapes are available which eliminate the need for the often expensive fastening/sealing methods traditionally used in engineering.

Available for use on threaded fasteners, locking studs, bearings and bushes, pipe sealing, flanges and many other mating components.





# BRITISH METRICS

## BONDED SEALS/O RINGS

### BONDED SEALS

A range of flat washers used to seal threads and flange joints up to operating pressures of 700 bar. The sealing washer consist of a flat metallic ring and a bonded rubber pad. Available for all BSP and metric sizes.



### "O" RINGS - METRIC AND IMPERIAL

'O' Rings and moulded sealing rings are produced to BS1806 (Imperial) and BS4518 (metric) Standards. Large stocks are available including a wide range of continental sizes to DIN 3770 and DIN ISO 3601. All sizes can be supplied in a range of shore hardness and materials including Nitrile, Silicone, Fluorocarbon, E.P.D.M. and P.T.F.E.



### "O" RING KITS

A must for any workshop our 'O'Ring Kits have proved an excellent aid. These kits consist of assortments of the most popular standard sizes and are available in inch and metric collections. Also available are 'O' Ring Splicing Kits - a self contained kit complete with various size cord, cutting jig and adhesive enabling a static 'O' Ring to be produced in a few minutes.



## AUTOMOTIVE SEALS

### TRUCK AND BUS AXLE SEALS

In recent years we have become recognized as a specialist in the field of Truck and Trailer sealing, supplying major PSV operators, Fleet users and Passenger Transport Authorities. We hold large stocks of original equipment approved seals catering for most British and European Trucks and Buses.



### EXTERNAL SEALS FOR TRAILER AXLES

We offer a range of seals suitable for heavy drive axles through to light truck/trailer and boat trailer under gear. This design overcomes the problem of centrifugal action by sealing externally within the rotating hub.



### UNITISED SEALS FOR TRUCK AND TRAILER AXLES

In keeping with the demand for greater reliability and less maintenance, we ensure our inventory includes all the latest unitised and semi-unitised designs for the Commercial Vehicle Industry.

For further information contact our Technical Department.



## BACK-UP/NU-LIP/QUAD RINGS

### PTFE BACK-UP RINGS

Back up rings are used together with 'O' rings in both static and dynamic applications to avoid extrusion of the seal into the gap between two mating components. Made from PTFE they are available in three standard designs: Spiral, Split and Solid.

Also available in other materials including leather, polyurethane, etc.



### NU-LIP SEALS/QUAD RINGS

These are double acting pressure seals used as an alternative to 'O' rings where spiral twisting and rolling is a problem.

They are available in a variety of materials.



### "O" RING CORD - METRIC AND IMPERIAL

Round cord is manufactured by extrusion and is available by the metre.

The standard materials held in stock are Nitrile, Neoprene and Fluorocarbon, but other materials are available with the same common cross sections as moulded 'O' rings.



## V RINGS/SPEEDI - SLEEVES

### SPEEDI - SLEEVE

Speedi-Sleeve is a stainless steel precision wear sleeve which allows shafts which have become worn and developed scoring beneath the sealing lip to be resurfaced in minutes at a fraction of the cost of the traditional alternatives of shaft replacement or remetalling. Extensive dismantling is usually unnecessary, the sleeve often being fitted in-situ. The correct size of Speedi-Sleeve (which is an interference fit on the shaft) is supplied with an application tool - a collar which abuts on to a removable flange at the base of the sleeve. By tapping the tool with a mallet, the stainless steel Speedi-Sleeve is pulled onto the shaft, allowing distortion free application.

The Sleeves are produced in over 200 different sizes to fit shafts from 0.469" diameter to 8.005" and 12 mm to 200 mm, and are currently offering industrial, fleet, automotive and marine users worldwide considerable time and cost savings over traditional shaft repair techniques.



### V RINGS

V Rings are a relatively low cost method of sealing non-critical applications or can be used as an auxiliary seal to prevent the ingress of dust and water.

The seals are all rubber and are an interference fit on the shaft; they then rotate with the shaft, sealing axially against a counterface.

Depending on space available, most applications can be served by two profiles, VA or VS.

V Rings are used in a variety of equipment including electric motors, conveyors and domestic appliances.

