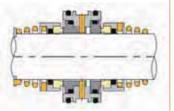
• Mechanical Seals to suit Fristam® Pump Applications

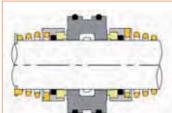


















Shaft Sizes: Available in standard shaft sizes 22mm, 30mm and 35mm



The Barnwell **Portfolio**

An extensive range of quality sealing products and services are available, including:

- Rotary Shaft Seals
- 'O' Rings
- Hydraulic & Pneumatic Seals
- Gaskets & Packings
- Sealing Washers
- Rubber Mouldings & Extrusions
- Circlips
- Adhesives & Sealants
- Springs & Fasteners
- Workshop Consumables
- Image Branding Service
- Bespoke Kits

Contact your local Barnwell Service Centre... ...or phone our special Sales Hotline:

Headquarters and Central Warehouse

M Barnwell Services Ltd, Reginald Road, Smethwick West Midlands B67 5AS Tel 0121 429 8011 Fax 0121 434 3016 e-mail sales@barnwell.co.uk

Unit 7 Schooner Park, Crossways Business Park, Dartford, Kent DA2 6QG Tel 01322 293024 Fax 01322 272099 e-mail dartford@barnwell.co.uk

Unit 14 & 16, Murray Place, Bellshill, Lanarkshire ML4 3LJ Tel 01698 749666 Fax 01698 749888 e-mail scotland@barnwell.co.uk

Unit 36/37, Westbrook Trading Estate, Vestbrook Road, Trafford Park, Manchester M17 1AY
Tel 0161 888 2330 Fax 0161 888 2296 e-mail manchester@barnwell.co.uk

Bristol
Unit 13, Avonbank Industrial Centre, West Town Road, Avonmouth Bristol BS11 9DE Tel 0117 982 5245 Fax 0117 923 5623 e-mail bristol@barnwell.co.uk

Tel 0121 429 8011 Fax 0121 420 3080 e-mail export@barnwell.co.uk





that the information contained in this publication pertaining to products and services is correct and fairly stated. However, we do not accept any liability for any errors or omissions therein, Reproduction in whole or in part of this publication without our written authorisation is prohibited.

Mechanical Seals





A Barnwell guide to Mechanical Seals

The Mechanical Seal

the axis of the rotating

name "radial face seal").

thrust bearings.

- one of the most effective ways of

sealing rotating shafts, consisting of two

lapped faces arranged perpendicular to

shaft (which gives rise to the alternative

casing or vessel, while the other is fixed

Frictional heat generation and wear is

One face is fixed to the equipment

to the shaft and so rotates with it.

controlled by maintaining a film of

lubricant between the seal faces.

As such, mechanical seals resemble

Mechanical Seals have replaced packings as the seal of choice in many applications, primarily because mechanical seals offer:

- Reduced wear
- Reduced heat generation
- Lower energy consumption
- Reduced maintenance requirement
- Tighter control of shaft leakage
- True reduction of costs

Mechanical Seals are precision devices, requiring in general more careful installation

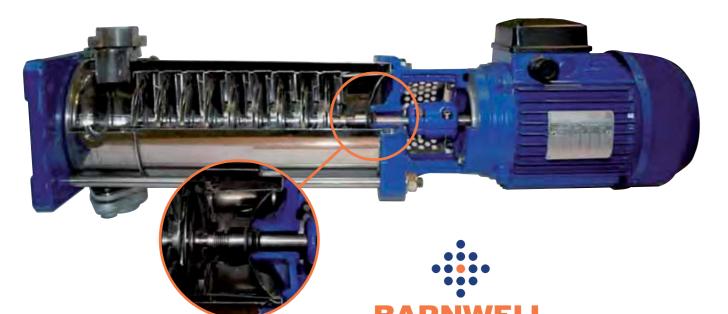
and higher initial investment than those of soft packings.

Barnwell is a UK Authorised Distributor of Vulcan Engineering Limited, one of the world's leading manufacturers of quality Mechanical Seals, As such,



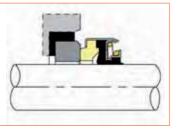
we have access to one of the widest range of standard mechanical seals available.

The following pages illustrate some of the most popular Mechanical Seals for pump applications. However, this is only an indication of the actual range available. Whatever your requirement, we can source and deliver the seal that you need - fast!



• Water Pump Type Seals



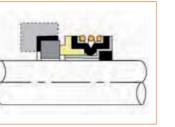


TYPE 18

Compact, enclosed rubber bellows seal with a wide stationary seat. Very short working length makes the Type 18 ideal for equipment where space for a seal is restricted. Seal is supplied with a top hat retainer (remove upon installation).

Standard Stock Face Materials: Rotary Face: Carbon, Silicon Carbide, Tungsten Carbide Stat Ring: Ceramic, Silicon Carbide, Tungsten Carbide N,B, Sic or T,C, stocked in certain common sizes only, Other face materials to order Shaft Sizes: Available in standard shaft sizes 8mm to 70mm





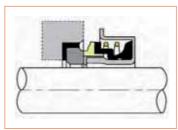
TYPE 60

Sleeve mounted, rubber bellows seal with shaft drive ring. Mass produced and easily fitted for low pressure, general applications on small diameter shafts.

Standard Stock Face Materials: Rotary Face: Carbon Stat Ring: Ceramic (Silicon Carbide, Tungsten Carbide also available) Other face materials to order

Shaft Sizes: Available in standard shaft sizes 0.375" to 1.000"





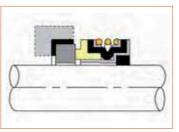
Coolant pump seal primarily utilised in combustion engine water pumps.

The clearance of the seal and seat above the shaft allows one size to be used on several shaft diameters.

Standard Stock Face Materials: Rotary Face: Carbon Stat Ring: Ceramic (Silicon Carbide, Tungsten Carbide also available)

Shaft Sizes: Available in standard shaft sizes 13mm, 17mm, 20mm and 30mm





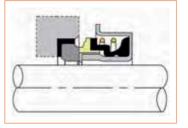
TYPE 65

Sleeve mounted, rubber bellows seal, with dimensions to equate to the common American seal standard. Mass produced and easily fitted for low pressure, general applications on small shaft diameters.

Standard Stock Face Materials: Rotary Face: Carbon Stat Ring: Ceramic (Silicon Carbide, Tungsten Carbide also available) Other face materials to order

Shaft Sizes: Available in standard shaft sizes 0.375" to 1.000"





TYPE 75

Coolant pump seal primarily utilised in combustion engine water pumps, with dimensions to equate to the common American seal standard.

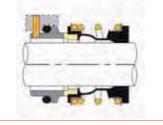
Standard Stock Face Materials: Rotary Face: Carbon Stat Ring: Ceramic (Silicon Carbide, Tungsten Carbide also available) Other face materials to order

Shaft Sizes: Available in standard shaft sizes 0.500", 0.625" and 0.750"

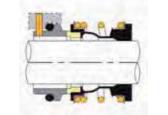
• Mechanical Seals to suit common Food and Dairy Industry Pumps

equipment ranges.





Available in standard shaft sizes 40mm, 53mm and 60mm



TYPE 26 Seals to suit APV Puma® Pumps

The APV W® pumps have been introduced as a standard

complete range of mechanical seals available designed to suit

both pump types in single and double configuration. These are

replacement to the APV Puma® pumps. Barnwell has a

TYPE 16 Seals to suit APV W®

and APV W+® Pumps

TYPE 19C Seals to suit Alfa Laval Equipment

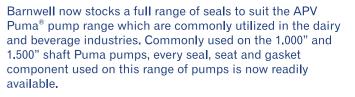
Barnwell supplies a special Type 19 seal to suit the Alfa Laval

common elastomers. Barnwell also offers a range of seals to fully replace all components used in the Alfa Laval Contherm®

Dryer Seal System as commonly used in the food industry.

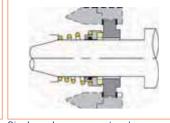
ALC® series pumps, from the 1.5kW to 22kW motor sizes. Readily available with Silicon Carbide vs Carbon seat and in all

Seals to suit the Alfa Laval ALC® and other pump and

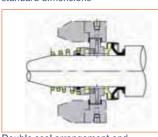


Shaft Sizes: Available in standard shaft sizes 1,000mm and 1,500mm





Single seal arrangement and standard dimensions



standard dimensions

available in both 25mm and 35mm shaft sizes in various standard and hard face material combinations.



Shaft Sizes: Available in standard shaft sizes 25mm and 35mm





TYPE 29 Series Seals to suit APV® Pumps

Barnwell now stocks a range of mechanical seals designed specifically to replace all common APV® pump seals. The Type 29 is suitable for APV[®], ZMA, ZMD, ZMS, ZMH and ZMK Rosista® Pasilac® pumps. These seals are available with either carbon rotary face vs stainless steel seat as standard or with silicon carbide faces in all standard elastomers. These seals are available in 20mm, 25mm and 30mm shaft sizes.

Shaft Sizes: Available in standard shaft sizes 20mm, 25mm and 35mm





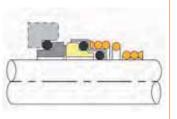
TYPE 12

A range of highly proficient, widely utilised, 'O'Ring mounted, conical spring seals with solid, stainless steel head and carbon seat. To suit standard housings. Suitable for a wide variety of duties.

Standard Stock Face Materials: Rotary Face: Stainless Steel, Silicon Carbide Stat Ring: Carbon, Silicon Carbide Other face materials to order

Shaft Sizes: Available in standard shaft diameters 10mm to 100mm





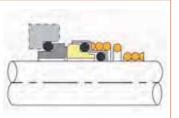
TYPE 13

'O'Ring mounted, conical spring seal with pressed stainless steel head retainer and pressed carbon seat. Highly productionised seal capable of wide ranging service. Seal and seat faces can be inter-changed with each other and can be easily replaced.

Standard Stock Face Materials: Rotary Face: Ceramic, Silicon Carbide, Tungsten Carbide, Carbon Stat Ring: Carbon, Silicon Carbide, Tungsten Carbide, Ceramic Other face materials to order

Shaft Sizes: Available in standard shaft diameters 10mm to 40mm





TYPE 13 DIN

'O'Ring mounted, with pressed seal head and seat, plus conical spring, designed to fit DIN 24960 (EN12756) housings. Cost-effective seal suitable for many duties with the option to replace wear faces and 'O'Rings during over-hauls.

Standard Stock Face Materials : Rotary Face : Ceramic, Silicon Carbide, Tungsten Carbide **Stat Ring :** Carbon, Silicon Carbide, Tungsten Carbide **Other face materials to order**

Shaft Sizes: Available in standard shaft diameters 10mm to 40mm

• Elastomeric Bellows Type Seals



TYPE 14 / 142 / 143

Universal compact DIN seal and seat with a choice of standard DIN working lengths. The robust, heavy duty bellows design provides excellent flexibility and durability. The seal is supplied as standard with the Type 19B seat. Alternatively, specify Type 14S, 142S or 143S for this seal to be supplied with a type 8 DIN Short Seat.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide **Other face materials to order**

Shaft Sizes: Available in standard shaft diameters 10mm to 100mm





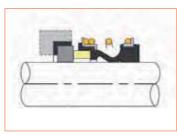


TYPE 19 / 192 / 193

A robust rubber bellows seal, with a wide non-DIN cross section, for optimum flexibility and durability. Available with a non-DIN seat (as shown) or a wide range of 'O'Ring or Boot Mounted DIN seats. Types 192 and 193 have an extended bellows to meet DIN L1K and L1N working lengths, when fitted with a Type 8 DIN Short 'O'Ring or 19B boot mounted Seat.

Shaft Sizes: Available in standard shaft diameters 10mm to 100mm





TYPE 1520 Metric

Metric DIN profile seal and a standard seat with working length to suit a common International standard. Seal has same working length and the same seat as Type 20, but can provide improved seal performance, life and capability.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide
Other face materials to order

Shaft Sizes: Available in standard shaft diameters 10mm to 100mm





TYPE 1520 Imperial

Imperial DIN profile seal and a standard seat with working length to suit a common International standard. Seal has same working length and the same seat as Type 20, but can provide improved seal capability, performance and life.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide *Other face materials to order*

Shaft Sizes: Available in standard shaft diameters 0.375" to 4.000"





TYPE 1511 / 1522

DIN profile seal and a standard seat, with a choice of working length to suit common American standards. Seal has same working length and the same seat as Type 11 or Type 22, but can provide improved sealing performance.

Shaft Sizes: Available in standard shaft diameters 0.500" to 3.000"





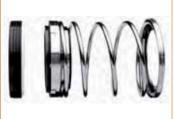
TYPE 1724

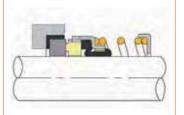
High performance, wide duty, full convolution rubber bellows seal inside a stainless steel housing. Type 1724 features a non-clogging spring and self alignment capability, and is offered with a choice of Type 24 boot mounted or 'O'Ring Short or Long DIN seats.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide **Other face materials to order**

Shaft Size: Available in standard shaft sizes 14mm to 100mm

• Parallel Spring Diaphragm Type Seals





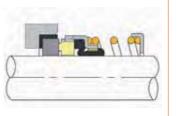
TYPE 10 / 20 Metric

Metric shaft size resilient, single spring, rubber diaphragm seal with boot mounted seat as standard. A widely specified and utilised seal type, capable of long service life.

Standard Stock Face Materials: Rotary Face: Carbon, Silicon Carbide, Tungsten Carbide Stat Ring: Ceramic, Silicon Carbide, Tungsten Carbide Other face materials to order

Shaft Sizes: Available in standard shaft sizes 10mm to 100mm



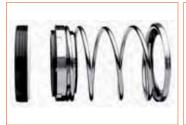


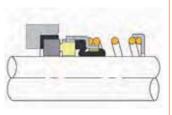
TYPE 10 / 20 Imperial

Imperial shaft size rubber diaphragm seal with parallel single spring and boot mounted seat as standard. The most common, imperial shaft, single spring design, suitable for use in many applications.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide **Other face materials to order**

Shaft Sizes: Available in standard shaft sizes 0.375" to 4.000"





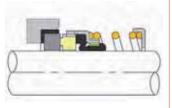
TYPE 11 / 22

Single spring, rubber diaphragm seal, designed for different sized seat housings and seal working lengths to the Types 10/20. The imperial sizes are most commonly found on American equipment.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide **Other face materials to order**

Shaft Sizes: Available in standard shaft sizes Inch: 0.500" to 3.000" Metric: 12mm to 75mm





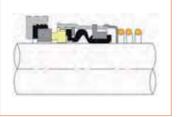
TYPE 24

Compact single spring, rubber diaphragm seal specifically designed to comply with DIN 24960 (EN12756) housings. Shown with boot mounted seat, but is also often specified with a Type 24 'O'Ring mounted DIN Long or Short seat (Types 24L or 24S respectively)

Shaft Sizes: Available in standard shaft sizes 12mm to 100mm

• Balanced Diaphragm Type Seals





TYPE A1

Robust, long working length, highly accommodating and reliable, rubber diaphragm balanced seal, which provides enhanced seal capability, performance and life. Improved design features further enhance this popular seal. Suitable for common UK and Euro housing dimensions.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide *Other face materials to order*

Shaft Sizes: Available in standard shaft sizes Inch: 0.500" to 3.000" Metric: 12mm to 75mm





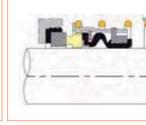
TYPE A2

Robust, short working length, highly accommodating and reliable, rubber diaphragm balanced seal which provides enhanced seal capability, performance and life. Improved design features further enhance this popular seal. Suitable for common UK and Euro housing and working length dimensions.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide **Other face materials to order**

Shaft Sizes: Available in standard shaft sizes Inch: 0.500" to 3.000" Metric: 12,13mm to 75mm





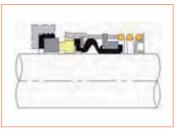
TYPE A3 / A4

Robust, short working length highly accommodating and reliable rubber diaphragm balanced seal, which provides enhanced seal capability, performance and life. Improved design features further enhance this popular seal. Suitable for common US standard housing and working length dimensions.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide **Other face materials to order**

Shaft Sizes: Available in standard shaft sizes Inch: 0.500" to 3.000" Metric: 12mm to 75mm





TYPE A5

Robust, long working length highly accommodating and reliable rubber diaphragm balanced seal, which provides enhanced seal capability, performance and life. Improved design features further enhance this popular seal. Suitable for common US standard housing and working length dimensions.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide **Other face materials to order**

Shaft Sizes: Available in standard shaft sizes Inch: 0.500" to 3.000" Metric: 12mm to 75mm

• Parallel Spring 'O'Ring Mounted Seals



TYPE 95 / 95N

Robust, general purpose, unbalanced pusher type seal capable of many shaft-sealing duties. The Type 95 drives directly from the shaft, and is also available with a short, non-pinned seat as Type 95N. Seal illustrated shows a stainless steel rotary face.

Standard Stock Face Materials: Rotary Face: Silicon Carbide, Tungsten Carbide, Ceramic, Stainless Steel, Chrome Oxide coated Stainless Steel Stat Ring: Ceramic, Silicon Carbide, Tungsten Carbide Other face materials to order Shaft Sizes: Available in standard shaft sizes Inch: 0.625" to 4.500" Metric: 20mm to 120mm



TYPE 96

Robust, general purpose, unbalanced pusher Type seal capable of many shaft-sealing duties. The Type 96 drives directly from the shaft via the split ring, inserted into the coil tail. Also available with a short, non-pinned seat as Type 96N. Seal illustrated shows a Silicon Carbide rotary face.

Standard Stock Face Materials: Rotary Face: Silicon Carbide, Tungsten Carbide, Ceramic, Stainless Steel, Chrome Oxide coated Stainless Steel Stat Ring: Ceramic, Silicon Carbide, Tungsten Carbide Other face materials to order Shaft Sizes: Available in standard shaft sizes Inch: 0.625" to 4.500" Metric: 16mm to 120mm





CYPF 97

Robust, general purpose, unbalanced pusher type seal capable of many shaft-sealing duties. The Type 97 drives from the shaft via the drive collar with grub screws inserted in the coil tail. Type 97 is also available with a short, non-pinned seat as Type 97N.

Standard Stock Face Materials: Rotary Face: Silicon Carbide, Tungsten Carbide, Ceramic, Stainless Steel, Chrome Oxide coated Stainless Steel Stat Ring: Ceramic, Silicon Carbide, Tungsten Carbide Other face materials to order Shaft Sizes: Available in standard shaft sizes Inch: 0.625" to 4.500" Metric: 16mm to 120mm





TYPE 98

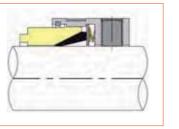
Robust, 'O'Ring mounted, unbalanced, metric shaft, parallel spring seal, as per Type 97, but with the addition of a double 'O'Ring mounted Stationary Seat. Most commonly found in marine and textile dyeing applications.

Standard Stock Face Materials: Rotary Face: Silicon Carbide, Tungsten Carbide, Stainless Steel, Chrome Oxide coated Stainless Steel Stat Ring: Silicon Carbide, Tungsten Carbide Other face materials to order Shaft Sizes: Available in standard shaft sizes 20mm to 130mm



• P.T.F.E. Wedge Type Seals



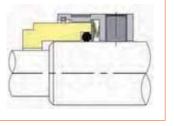


TYPE 1609 / 1609S

Multiple Spring seal with a highly effective design, commonly used in chemical and petro-chemical duties. These seals are frequently fitted with the Type 25 seat. Standard Type 1609 incorporates a PTFE Wedge secondary seal, with the alternative 'O'Ring Type as 1609S. (1609 drawing shown)

Standard Stock Face Materials: Rotary Face: Carbon Other face materials to order
Shaft Sizes: Available in standard shaft sizes Inch: 0.625" to 5.500" Metric: 20mm to 50mm



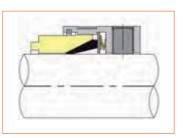


TYPE 1609B / 1609BS

Multiple Spring, stepped shaft, balanced seal, alternative to the Type 1609/1609S. Standard Type 1609B utilises a PTFE Wedge shaft seal, or specify Type 1609BS for the 'O'Ring version. Commonly fitted with the next shaft size down Type 25 seat. (1609BS drawing shown)

Standard Stock Face Materials: Rotary Face: Carbon Other face materials to order Shaft Sizes: Available in standard shaft sizes 0.625" to 4.000"



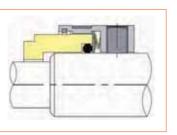


TYPE 1645 / 1645S

Narrow profile, multiple-spring seal, designed for common American installation dimensions, in chemical process industry equipment. Complies with ANSI B73-1974 centrifugal pump standard. Standard Type 1645 utilises a PTFE Wedge secondary seal and Type 1645S uses an 'O'Ring. Commonly fitted with Type 25 seat, (1645 drawing shown)

Standard Stock Face Materials: Rotary Face: Carbon Other face materials to order Shaft Sizes: Available in standard shaft sizes 0.500" to 3.625"



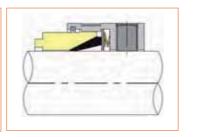


TYPE 1645B / 1645BS

Multiple-spring, stepped shaft, balanced seal to common American installation dimensions. Standard Type 1645B incorporates a PTFE Wedge secondary seal and Type 1645BS being the 'O'Ring variant. Commonly fitted with the next shaft size down Type 25 seat. (1645BS drawing shown)

Standard Stock Face Materials: Rotary Face: Carbon Other face materials to order Shaft Sizes: Available in standard shaft sizes 0,750" to 4,000"





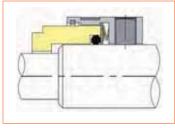
TYPE 1659 / 1659S

Narrow profile, multiple-spring seal with a highly efficient design, frequently specified in chemical process industry pumps. Use Type 1659 with a PTFE Wedge or Type 1659S for 'O'Ring variant. Commonly fitted with Type 24 DIN Long or Type 24 DIN Short Stats. (1659 drawing shown)









TYPE 1659B / 1659BS

Multiple-Spring, stepped shaft, balanced seal. Standard Type 1659B incorporates a PTFE Wedge shaft seal, or specify Type 1659BS for the 'O'Ring version. Commonly supplied with a suitable smaller shaft size Type 24 DIN Long or Type 24 DIN Short Seat. (1659BS drawing shown)

Standard Stock Face Materials: Rotary Face: Carbon Other face materials to order Shaft Sizes: Available in standard shaft sizes 18mm to 100mm

• Wave Spring Type Seals





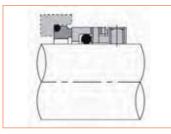
TYPE 1677 / 1677M

Wave spring, 'O'Ring mounted seal commonly utilised in the European chemical process industries. Manufactured to suit DIN 24960 (EN12756) dimensions. Supplied as Type 1677 with an inserted face or increasingly as Type 1677M, with a monolithic face design for exceptional performance. Type 8 DIN Long Seat shown is standard, with other variants available.

Standard Stock Face Materials : Rotary Face : Sintered Silicon Carbide **Stat Ring :** Sintered Silicon Carbide, Carbon *Other face materials to order*

Shaft Sizes: Available in standard shaft sizes 14mm to 100mm





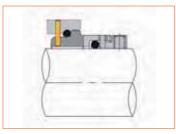
TYPE 1688

Wave spring mechanical seal with thin cross section and short working length. Most commonly used on rotary lobe pumps, found extensively in the food, process, dairy and brewery industries. Popular, common sizes are fitted with Sinusoidal Split Wave Springs.

Standard Stock Face Materials : Rotary Face : Stainless Steel or Tungsten Carbide **Stat Ring :** Carbon, Silicon Carbide or Tungsten Carbide *Other face materials to order*

Shaft Sizes: Available in standard shaft sizes Inch: 0.625" to 3.000" Metric: 16mm to 100mm





TYPE 1688L

Rotary based wave sprung mechanical seal with thin cross section and short working length, supplied as standard with Type 24 DIN Long seat. Most commonly used on rotary lobe pumps found extensively in the food, process, dairy and brewery industries. Popular, common sizes are fitted with Sinusoidal Split Wave Springs,

Standard Stock Face Materials : Rotary Face : Stainless Steel or Tungsten Carbide **Stat Ring :** Carbon, Silicon Carbide or Tungsten Carbide *Other face materials to order*

Shaft Sizes: Available in standard shaft sizes 16mm to 100mm

• Conical Spring Type Seals





TYPE 7D

Resilient, conical spring, 'O'Ring mounted DIN standard seal. With the advantage of being able to replace the faces. The seal is very versatile and is suitable for a large variety of general and arduous duty applications, through a choice of face material combinations.

Standard Stock Face Materials: Rotary Face: Ceramic, Silicon Carbide Seat: Carbon, Silicon Carbide

Other face materials to order

Shaft Sizes: Available in standard shaft diameters 10mm to 100mm



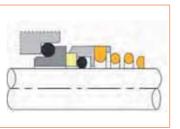


TYPE 8B

Conical spring, 'O'Ring mounted seal and seat of similar design to the Type 8 but with a solid stainless seal head and 'O'Ring mounted Carbon Seat. This Standard face combination is suitable for general and medium duty applications.

Standard Stock Face Materials : Rotary Face : Stainless Steel **Stat Ring :** Carbon *Other face materials to order* **Shaft Sizes :** Available in standard shaft diameters 10mm to 80mm





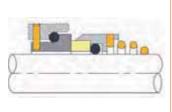
TYPE 8

Conical spring, 'O'Ring mounted seal with a wide choice of elastometers and face materials. Suitable for a large variety of general duties and arduous duty applications, including those needing high pV value face combinations.

Standard Stock Face Materials : Rotary Face : Carbon, Silicon Carbide, Tungsten Carbide **Stat Ring :** Ceramic, Silicon Carbide, Tungsten Carbide **Other face materials to order**

Shaft Sizes: Available in standard shaft diameters 10mm to 80mm





TYPE & DIN

Conical spring, 'O'Ring mounted, DIN standard seal and DIN long seat with drive slot. Suitable for a large variety of general and high duty applications through a ready choice of face material and elastomer materials.

Standard Stock Face Materials: Rotary Face: Carbon, Silicon Carbide, Tungsten Carbide Stat Ring: Ceramic, Carbon, Silicon Carbide, Tungsten Carbide Other face materials to order

Shaft Sizes: Available in standard shaft diameters 10mm to 80mm





A range of highly proficient, widely utilised, 'O'Ring mounted, conical spring seals with solid, stainless steel head and carbon seat. Available to suit DIN 24960 (EN12756) housings. Suitable for a wide variety of general and medium duties.

Standard Stock Face Materials : Rotary Face : Stainless Steel, Silicon Carbide **Stat Ring :** Carbon, Silicon Carbide *Other face materials to order*

Shaft Sizes: Available in standard shaft diameters 10mm to 100mm