

Pump Specials

Special Flute Shapes

To provide a complete service to our clients, our in-house tool making facility enables us to manufacture bearings with special flute shapes and patterns, meaning we can produce any rubber profile that is requested, as well as having the option to vary the dimensions, dependant on your requirements.

Helical flutes and annular grooves can be manufactured either in left or right hand spiral along with plain bore seals.

Special profile shells

The same level of engineering is used to machine "special" profile shells with grooves, chamfers, keyways, flanges or externally cut screw threads.



We can manufacture your bearings to specification from drawing. Currently the largest size we can offer is 9010 m long with an ID of 270 mm and an OD of 320 mm.

Water Regulations Advisory Scheme (WRAS) Approval

Tides Marine International is pleased to announce that bearings can be manufactured from materials which have a WRAS approval number. Our bearings themselves do not have their own approval number yet, but testing is currently being carried out.



Failure to use an approved product for drinking water/portable cold water applications can result in a breach of water industry regulations.

Our bearings can be manufactured from WRAS approved Stainless Steel 1.4406 and 1.4404 along with a variety of outer shells which do not conform to WRAS approval and are not certified.

The WRAS approval means that these specific bearings comply with the high requirements of The Water Supply (Water Fittings) Regulations 1999 (Water Byelaws 2000 Scotland). The water Fittings Regulations are national requirements for the design, installation and maintenance of plumbing systems, water fittings and water-using appliances. Their most important purpose is to prevent contamination of drinking water.

Pump Bearings



Pump Bearings

For the pump market, bearings in all kinds of sizes and shapes are requested. Bearings can be manufactured to your specification from drawing. At our in-house workshop we are able to produce bearings in both one off's and batches of hundreds. The modern production control system is able to predict accurate lead times.

Materials

Our in-house manufacturing capabilities enable us to produce a range of materials. We can provide material certificates and other NDT analysis if required.

Shell materials include:

- SS316L
- UNS31803 Duplex
- UNS32760 Super Duplex
- UNS54200
- Monel K400
- Monel K500
- Cast Iron
- Mild Steel
- Aluminium Bronze
- Austenitic Iron
- CuSn7 / CC493K / SAE660
- GRP or Phenolic

For lining material, we use nitrile rubber as a standard. Nitrile is extremely tough and resistant to oil and chemicals.

Also included in our programme is Viton fluoroelastomer. We are probably one of the only companies to be able to process this material to large shaft diameters.

We also produce water lubricated bearings manufactured from materials with WRAS approval, however we are currently awaiting testing of our bearings.



The rubber is moulded into the shell using special bonding agents that ensure adhesion is permanent and total.

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Flanged Bearings

Flanged Bearings to your specifications

Our core competences exploit the best practices and materials available to produce a quality product. When manufacturing a Flanged bearing, these can be supplied to your specifications. We have numerous ways of carrying out these procedures which include:

- Integrally Cast
- Welding (Dye Penetrant Testing can be carried out)
- Screwed

We have an innovative modular production tooling system that means non standard items can be produced with little or no additional tooling costs.



Re-lining service

If bearings are still in a good condition externally and are not damaged or distorted, we can offer a re-lining service. This is a less expensive and -often more important- a faster option than manufacturing a complete new bearing. We remove the old rubber lining from the existing bearing and cleanse the shell internally to allow for vulcanisation of the new lining to the surface of the metal. We then re-mould the bearing, trim it on both ends and re-grind to the correct clearances required by our customer to suit the rotating shaft diameter.

Coupling Bushes & Sealing Glands

Coupling Bushes & Sealing Glands

An innovative modular production tooling system means non-standard items can be produced with little or no extra costs. This tooling is so flexible that we have adapted it to produce non bearing products, such as gland seals and coupling bushes. These bushes can be manufactured either as all Nitrile or encased around a brass insert.



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