



Industrial helical rotor pumps

The Orbit industrial helical rotor pump is ideal for a wide variety of applications, ranging from water and wastewater to mining and chemicals.



Franklin Electric

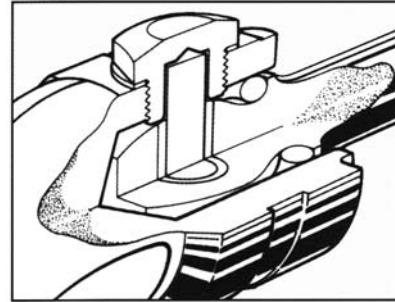
Pumping System Solutions

Industrial Pump Range

Features

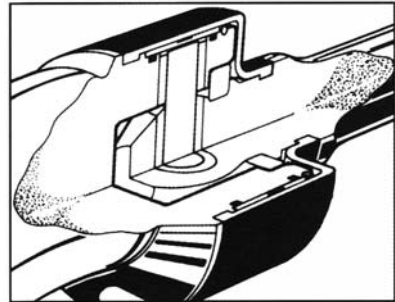
- Excellent suction capabilities - inherently self-priming
- Good solids handling capabilities including fibrous materials
- Reversible - pumps in either direction with equal efficiency
- Capacity is proportional to speed
- Pressure is independent of speed
- No valves
- Loose seal/gland arrangement
- Gentle handling of shear-sensitive products
- Ability to handle viscous products of over 1-million centipoise
- Solid or hollow shaft option
- Pulse-free flow
- Simple and robust construction
- Ability to handle products with a large percentage of entrained gas

Standard Sealed Universal Joint-B Range



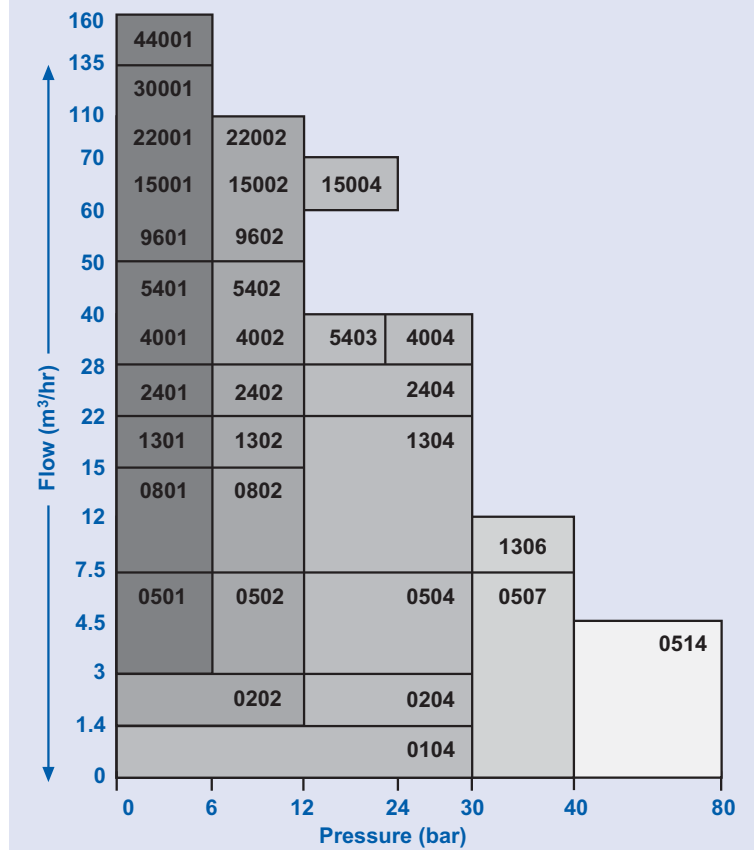
Standard "O" ring or square seal ring designs provide adequate sealing protection against the ingress of foreign material into the universal joint. Standard seals are suitable for handling most products in industry.

Fully Sealed Universal Joint-D Range



Where neither ingress of chemical product nor contamination of the product handled by the lubricant within the joint can be tolerated, the fully sealed universal joint provides complete sealing protection. Typical applications are foodstuffs and explosive slurries.

Typical Performance Guide



Applications

Agriculture

Liquid manure, feedstuffs, irrigation, fertilizer, herbicides and pesticides.

Brewing and Beverages

Yeast, spent grains, kieselguhr, glucose, wine, coffee, fruit juices and pulp.

Building and Construction

Cement slurries, paint, aerated grout, bitumen, mortar and waste products.

Ceramics

Clay slip, glazes and waste products.

Chemicals

Acids and alkalis, emulsions, petrochemicals, effluents, sludges and explosives.

Mining

Dewatering, flocculants, grouting, dust suppression, gland service, backfilling and sludges.

Paper and Pulp

Paper stock, coatings, dyestuffs, adhesives, starches and waste.

Pharmaceuticals and Cosmetics

Soap, ointments, creams, toothpaste, raw materials, pastes, shampoo and detergents.

Water and Wastewater Industry

Belt and filter press feed, flocculants, activated carbon and lime dosing, acids and alkalis for pH control, all sludges including those with high gaseous content and macerated sewage.

Drive

Motor, geared motor, variable speed gear box, hydraulic motor, diesel engine, petrol engine or air motor.

Installation

Installed horizontally, vertically or in any other position, the pumps may also be skid-mounted or mounted on a portable trolley base.

Drive Shaft

Manufactured from various high quality steels, drive shafts are hard chrome-plated in the gland area for excellent wear resistance. Hollow or solid shaft designs are standard.

Stuffing Box

These are manufactured as separate castings suitable for EuroDIN seals or braided packing of many different materials. Double and special chemical seals can be quickly and easily fitted.

Castings

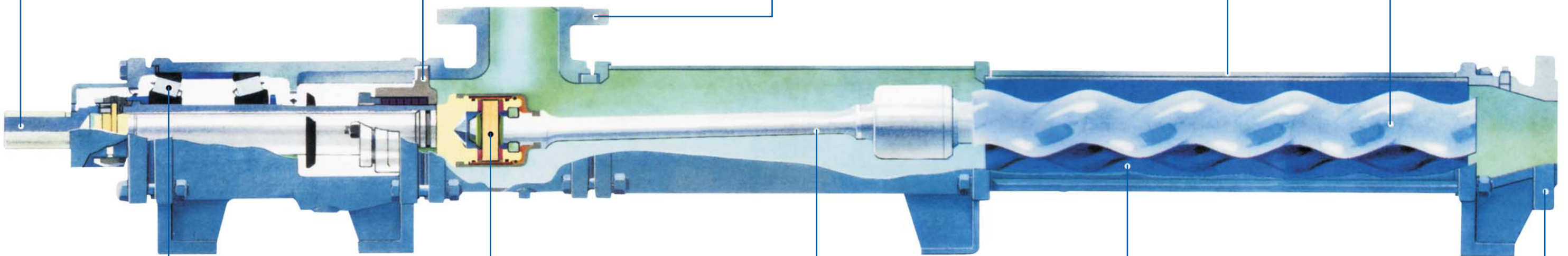
Grey cast iron and 316 stainless steel are standard casting materials. The central port can be manufactured as a hopper with an auger feed to handle products with poor flow characteristics (E range).

Stator Housing

High pumping pressures are obtainable from stators bonded to housings of thick-wall steel tubing.

Rotor

Standard options are specially hardened and hard chrome-plated rotors in either EN8 or tool steel-plated or unplated. Special alloys are available.



Bearings

High thrust taper-roller or ball bearings of adequate proportions result in high flow and high pressure capabilities.

Universal Joints

Grease lubricated pin-type joints are either single or fully sealed.

Coupling Rod

Coupling rods are proportioned to handle rotor load and eccentricity.

Stator

Natural, nitrile, EPDM, hypalon or viton rubber are the standard stator options.

Flanged Ports

Castings are machined to BS4504 as standard. Options available include ASA and DIN.



Mini Pump Range



Options

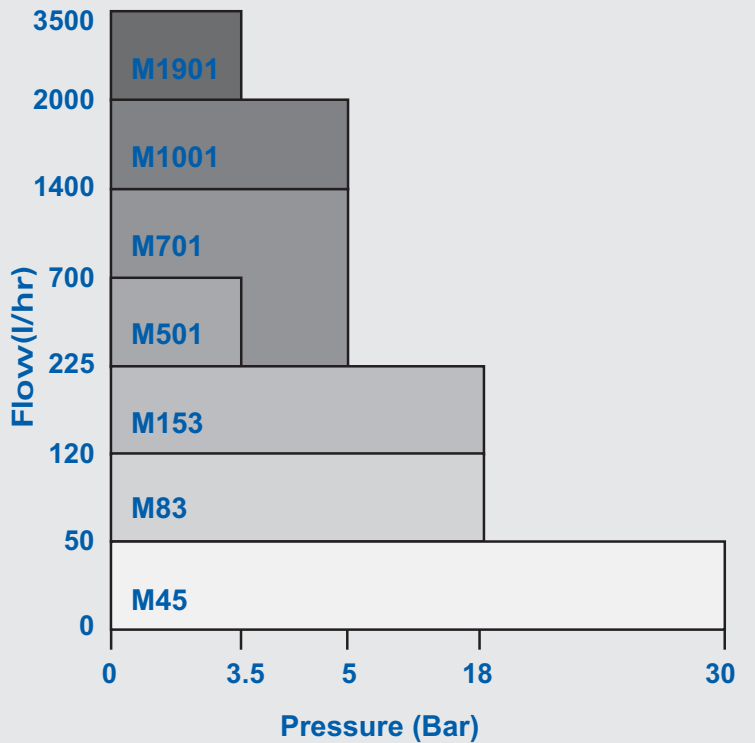
- Bareshaft or close-coupled to electric motor or gearbox (M501 bareshaft only)
- Bareshaft pumps – packed gland or mechanical seal. Close-coupled pumps – mechanical seal only (M501 mechanical seal only)
- Materials of construction:
Orbidos M45, M83, M153 stainless steel only
M501 cast iron only
M701, M1001 and M1901 cast iron or stainless steel
- Stators available in nitrile, viton and EPDM rubber
- Orbidos M45, M83 and M153, dual rotation close-coupled or bareshaft

This self-priming range of positive displacement helical rotor pumps for small and medium size industrial applications offers smooth flow at all speeds and excellent handling of product regardless of viscosity.

Features

- Positive displacement progressing cavity principle
- Smooth, non-pulsating flow irrespective of rotational speed
- Excellent handling capabilities for high or low viscosity products
- Suction lift capabilities depend on altitude, temperature and product viscosity
- Orbidos variable speed options ideal for dosing applications
- Compact, reliable pumping for a multitude of commercial and domestic applications
- Sealed universal for longer life
- Inherently self priming

Typical Performance Guide



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Service and Support - Franklin Electric is the leading manufacturer of world-class pumping system solutions providing the highest quality, availability, service, innovation and value-for-money in the industry. Backed by unsurpassed expertise throughout Africa, these leading brands are ideal for various pumping applications.