

A photograph of an industrial facility with a complex network of large pipes. The pipes are painted in shades of blue and green. The background shows a ceiling with lights and structural elements. The overall image has a blue tint.

topflo[®]

» All about your flow[™]

INDUSTRIAL & HYGIENIC PROCESS PUMPS

Introducing our full range of high-performance process pumps, specialised pump systems, and custom built solutions, engineered to meet your requirements.

2023 Rev.1

tapflopumps.co.uk

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Leading pump manufacturer and supplier of the highest quality process pumps & systems for various hygienic and industrial applications. Europe's biggest Diaphragm Pump manufacturer.



Tapflo UK Ltd was established in 1998 and has been working within the UK to supply process pumps to the industrial, food and beverage, chemical, petrochemical, energy, water treatment, surface treatment, pharmaceutical and nuclear sectors ever since.

As a well-established organisation, we pride ourselves on our attention to detail and high quality of products and services. By working closely with our customers and supply partners, we can provide comprehensive solutions to all fluid and powder processing applications.

Here at Tapflo UK, we have grown to become a leading supplier of industrial and hygienic process pumps, spearheading energy conservation issues through the launch of our LEAP Technology (Low Energy Air Pump), and building a specialised department for custom built systems with a dedicated engineering team.

At Tapflo, we believe that quality is one of the highest values, both for our customers as well as our employees. Many of our products comply with EC ATEX directives for equipment intended for use in explosive and hazardous environments. Our Aseptic Diaphragm Series is EHEDG certified and the Pharmaceutical Diaphragm Series has USP VI and EC 1935/2004 approval.

All of our products are CE marked, followed by our comprehensive instruction manuals. Tapflo's manufacturing process is certified according to ISO 9001:2015.



- Largest diaphragm pump manufacturer in Europe!
- Max temperature up to 110°C
- 70% less components than the industry standard
- 1/4" to 3" connection sizes, all connection types
- 2 - 230FGPM (9-880LPM) Flow Rates
- 8 Bar (120 PSI) Max Pressure
- 25,000cPs Viscosity
- Barrier configuration with back up diaphragms
- Fully customisable for your application



**TESTED FOR UP TO
80 MILLION LIFE CYCLES**

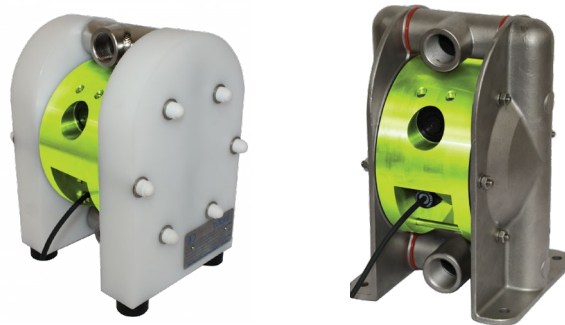
No-nut, clean face bonded diaphragm design
as standard!

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Here at Tapflo UK, we are at the forefront of the energy saving revolution with the development of the LEAP (Low Energy Air Pump) Technology. Airflow through the pump is controlled by a fundamentally different principle to vastly reduce the air consumption of our diaphragm pumps from the industry standard of 1.2 Bar to 0.2 Bar starting pressures!

Powered by



- Run dry and dead head without damage – no need for dry run protection devices
- Infinitely variable flow control – achievable by adjusting the air flow to the pump
- Air Operated – intrinsically safe & simple to install, no special training required
- Self-priming up to 9m, when wetted
- Solids handling & resistant to abrasion
- Can handle both thin and viscous fluids
- Available in a wide variety of materials to suit almost any fluid
- Sealless – no mechanical seal, which is the weakest point on any type of pump
- Decent volumetric efficiency – enables use in batching & metering applications
- 70% less parts than the industry standard, meaning less downtime & lower maintenance costs
- Numerous design variations & accessories such as Barrier, Twin, Powder, Filter Press, Drum, Ball Lifting, Flap Valve & Integrated Flange



- Can handle thin and viscous fluids (up to 50,000cPs), and solids in suspension (up to 25mm)
- Capable of discharge pressures up to 4 Bar
- Maximum temperatures up to 120°C
- Flow rates up to 1200 l/min

Complete Range Available ATEX Rated



Working closely with our partner, Gemme Cotti, Tapflo UK are pleased to offer the below ranges to the UK market. Gemme Cotti are an Italian Pump Manufacturer who have been manufacturing Mag Drive Pumps since 1992.

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EHEDG PROCESS PUMPS



Tapflo's range of Hygienic Pumps are specifically designed and manufactured to safely and efficiently pump materials intended for human consumption. Engineered from 316L Stainless Steel, our range of pumps comply with EHEDG regulations, ensuring exceptional performance and safety for the Pharmaceutical and Food & Beverage Industries.

- Manufactured from materials that have been approved by the FDA.
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- Available in Stainless Steel AISI 316L, PP & PVDF, both horizontal & vertical
- Robust designs in Glass Blasted/Electropolished S316L or injection moulded PP & PVDF
- Can be modified for a variety of applications without having to replace the pump
- Low cost & delivery times compared to equivalents on the market
- Simple construction from at least 19 components
- Low maintenance



- Available in 23 different sizes that provide flow rates of 0 to 100m³/hr
- Self-priming up to 9.8 meters
- Safe to run dry
- 17 motor sizes and 100+ gear ratios
- Perfect for abrasive and shear sensitive liquids
- Reversible operation allows pumping in both directions
- Optimised design for easy draining of glycerine
- Easy hose replacement and maintenance, and low downtime
- High quality reinforced hoses with up to 30% longer lifetime than other producers, FDA available
- Extensive configuration options such as pulsation dampeners, trolleys, vacuum inverters and more.



Our High Viscous Drum Unloading System (HVS) is designed for handling highly viscous liquids in hygienic as well as industrial applications.

The system empties substances transported in barrels, such as:

- Resins
- Fruit
- Coconut oil
- Vegetable pulps
- Tomato paste
- Tahini oil

Working Principle

While the pump is operating, the actuators move the pump down and the liquid is pushed into the pump chambers for easier pumping into the discharge line. The system is custom designed for best efficiency and safety in the process of pumping high viscosity, paste-like liquids out of transport drums.



Benefits & Specifications

- ✓ Max. Capacity: 35m³/hr
- ✓ Max. Discharge Pressure: 80m
- ✓ Volume per stroke: 2300ml
- ✓ Available in 21 sizes
- ✓ Self-priming up to 9.8 meters
- ✓ Eliminates product airborne contamination by creating a sealed region between the piston and the drum.
- ✓ Improves worker ergonomics by eliminating manual handling.
- ✓ Advanced cleanability thanks to a seal-less design diaphragm pump.
- ✓ Inflatable seal system fits multiple drum shapes and sizes.
- ✓ Multiple piston, control and frame options makes the HVS configurable enough to fulfill most application requirements.
- ✓ High capacity achieved with lower viscosity products.
- ✓ Removes up to 99% of the product



Tapflo's Diamond Series Progressive cavity pumps are characterised by a modular design covering numerous models and sizes enabling capacities up to 420 m³/hr and discharge pressures up to 48 Bar Numerous Rotor/Stator & Sealing Combinations are available to match almost any application.

- Uniform Flow which is proportional to the speed of rotation
- Suitable for low NPSHa & Suction Lift (up to 8m) Applications – Size, No of Stages & Speed-dependent
- High Discharge Pressures, up to 48 Bar (6 Bar / Stage). Units are available with 1 – 8 stages.
- Can pump Shear Sensitive & Heterogeneous Fluids containing Gases, Solids, Abrasive Particulates & Fibrous Materials
- Can pump both Low and High Viscosity Fluids
- Low Pulsation with Minimal Tensile Strain on the process media

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The Jump Pump range is capable of flows up to 140 m³/hr and pressures up to 12 Bar and available in materials ranging from Ductile Cast Iron to Stainless Steel AISI 316L. Jump's range of Rotary Positive Displacement Pumps are ideally suited to a wide range of applications for thin to semi-viscous fluids within a plethora of industries. All available ATEX Rated & with FDA Certification.



Tapflo is an industry leading manufacturer with over 40 years' experience in the design and development of industrial gear pumps for the transfer of viscose and semi-viscose fluids. ATEX Rated available on request.

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Tapflo are proud to supply a wide range of Sanitary Valves made of forged 304L and 316L stainless steel. All our valves are 3A and FDA certified for use within the food and beverage industries. They are also USP Class VI certified for the pharmaceutical industry.

Tapflo's diverse range of Rotodynamic Submersible Pumps cater to a wide range of applications. These pumps are an ideal choice when it comes to efficient drainage on flat surfaces, disposing of liquids containing soft solids and fibrous materials, dewatering spring, rain and groundwater or tackling abrasive sludges and slurries.

With an unwavering emphasis on reliability and ease of use, our Submersible Pumps are specifically designed to handle water-based fluids, ensuring optimal performance and efficiency every time.

Our team of in-house experts are available to design and manufacture fully bespoke systems that are completely suited to the customer's application and installation requirements.

Some of our recent custom builds include:

- Custom Peristaltic Solution for EfW Site
- Fully ATEX Trolley Batching Systems for Pharmaceuticals
- Mobile ATEX Hastelloy Dosing Systems
- Pharmaceutical Diaphragm Pump Skid Systems
- Custom Duty Standby Diesel Pump & Filtering System



» Benefits Of Using Our Bespoke Service

- ✓ Reduction in extra installation & commissioning costs once received on site
- ✓ ATEX Rated upon request & fully accredited to industry
- ✓ Built to Industrial/Chemical & Hygienic Industry standards
- ✓ Range of options such as simple trolley to complex site installation packages
- ✓ Cradle to grave support with complete support from Tapflo's engineering team
- ✓ One-stop solution - all elements of the system are supplied under one supplier and warranty
- ✓ Bespoke design is based on extensive experience and site specific requirements
- ✓ Provides bespoke electrical or pneumatic control panels based on requirements
- ✓ Systems are fully calibrated and tested before delivery, meaning they are ready to use straight out of the box



All our systems are manufactured to reduce risk associated to the user and their environment, helping customers to maintain health and safety on-site and meet strict hygiene requirements



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Continuously prepare concentrated SLES solution with the Tapflo Mixing and Dilution Unit for full control over your installation and maximum efficiency with this simple design.

Dilute SLES concentration from 70% to 27% as part of your process line. Tapflo's solution significantly reduces costs associated with SLES by diluting on your site.

Featuring a Progressive Cavity Pump and Centrifugal Pump with a range of control accessories and a 7" touchscreen to monitor the mixing and dilution process.

- Flexible with design to meet customer requirements
- Complete system
- Simple and user-friendly control system
- Competitive pricing
- Delivered in up to 10 working weeks
- On-site or over the phone start-up assistance



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Tapflo UK offer a wide range of Pneumatic Control Systems and accessories. These include level controls, batch controls, guardian system (barrier, dry run and dead head protection), life counters, start/stop and many more including all bespoke systems and panels.

Tapflo UK offer more than just diaphragm pumps; we are all about your flow! As a result, we have an extensive range of the below pumps and services to suit a variety of applications.



Services We Offer

- ✓ Dedicated in-house design and manufacturing team for bespoke applications
- ✓ Full range of case studies, reference sites, photos and videos available on request
- ✓ H&S accessories to protect the pump, product & most importantly the end user
- ✓ Bespoke pneumatic and electric control gear and accessories
- ✓ Service and PPM (pre-planned maintenance) contracts
- ✓ Energy saving accessories to compliment pumps
- ✓ Fully qualified pump engineers



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Tapflo is a leading process pump company specialising in delivering reliable pumping solutions to a wide range of industries & applications. From chemical processing to wastewater treatment and food production. Tapflo's pumps excel in meeting the diverse needs of industries with exceptional performance and efficiency.

The background of the entire page is a photograph of an industrial facility, possibly a water treatment plant or a factory. It features a complex network of large, dark-colored pipes and ducts. In the center, there is a prominent yellow cylindrical tank. The lighting is somewhat dim, and the overall color palette is dominated by blues and greys, with the yellow tank providing a strong contrast.

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