



**HpE PROCESS LIMITED**

# **PUMPS**



**OVER 25 YEARS OF SUCCESS**

[www.hpeprocess.com](http://www.hpeprocess.com)

Downloaded from [www.hpeprocess.com](http://www.hpeprocess.com)

HpE 2017

HpE Process has been established for over 25 years, and with over 150 years of combined company experience in hygienic fluid handling processes our level of technical sales support and services are unsurpassed. HpE Process is in a position to provide innovative, cost effective, and advanced products and system solutions for virtually any fluid flow applications.

Complimented by a comprehensive range of selected proven products, from the world's leading manufacturers, we are helping our customers to reduce plant downtime and waste.



We have selected our products carefully from the world's best manufacturers, with the aim of being able to offer the most comprehensive range of products that not only meet British, European and American standards, but also offer, in conjunction with our own experience and knowledge, cost effective solutions to the issues that are at the core of any manufacturer.

- Maximising product quality
- Reducing product waste
- Reducing water usage
- Reducing effluent costs
- Reducing energy demand
- Keeping the factory running reliably
- Low cost of ownership on plant and equipment

What follows outlines just some of the products and services that we offer and which have been supplied by HpE for over 25 years to the world's process industry, from small "new start" breweries to the world's biggest of food manufacturers.

#### Key to product usage

- Sanitary
- Pharma
- Chemical
- Hygienic
- BioTech



## Pumps

Food producers and other industries are under constant pressure to deliver high quality yet affordable products just in time to retailers while maintaining optimum standards of hygiene to ensure consumer health and safety.

Waste and loss of production are two of the biggest barriers they face. HpE Process has been a trusted partner and adept solution provider to High Street brands for over 25 years. We have helped manufacturers reduce waste and improve reliability, boosting productivity with bespoke systems designed around customers' requirements.

## Service and Repair

We service and repair pumps and valves in-house. Items are stripped and then cleaned. A report is prepared, which is then transmitted to the customer with a quotation for repair.

Once confirmed, the job is moved to our clean room facility, where re-assembly is carried out. We can perform static pressure tests, dynamic pressure and flow testing (for pumps). Items can be sanitised on rebuild or after testing.



## Spare Kits

A full range of spares are available upon request for a vast range of pumps. All parts are supplied by the original source.

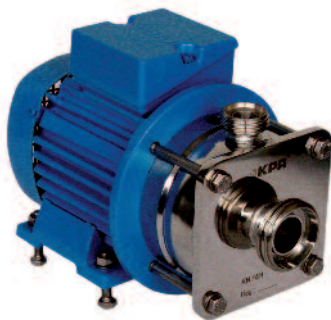
# Hygienic and Aseptic Centrifugal Pumps

## Centrifugal Pumps



- 0.55kw to 30kw
- Flowrate up to 140,000l/hr
- Head up to 75m

All pumps up to 7.5kw can be supplied with integral frequency inverters, electro polishing is standard, with options on specific finishes to customer specification. Motor to IE3.



## Multi-Stage Centrifugal Pumps

For Food and Pharmaceutical applications

- Horizontal mounting or vertical mounting (self draining)
- Flowrate up to 45,000l/hr, head up to 120m

## Sanitary 'S' type self-priming Liquid Ring Pumps

For CIP return

- Available as end suction or vertical suction designs

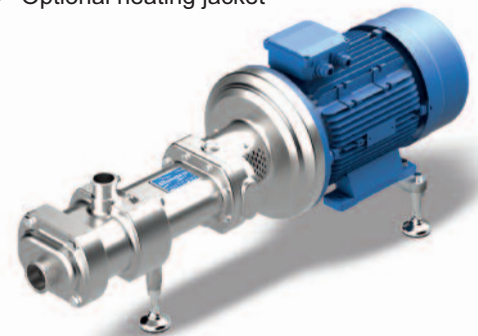


## Versatwin Screw Pumps



For Hygienic and Aseptic applications

- EHEDG and 3A approved
- 2 pumps in one – slow speeds for product transfer, up to 4000rpm for CIP feed and scavenge
- Very low shear to product
- Low NPSH requirement
- Up to 30mm solids handling
- Self-priming and capable of handling up to 60% air / liquid mix
- Optional Vario-Twin screw feeder
- Can dry run (with flushed mech seals)
- Optional heating jacket



## Versaline VCP Pumps



For Dairy, Beer, Beverage, Pharmaceutical and Chemical applications

- Flow rates from 5m<sup>3</sup>/hr to 273m<sup>3</sup>/hr
- Delivery heads up to 115m



## Pharma / Aseptic Range



Pharma process, quality water distribution maintenance

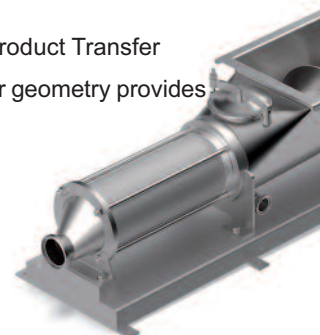
- Low maintenance
- All forged or rolled components
- All grade 1,4404(316L) welded parts with options on 1,4435
- Controlled delta ferrite, with optional certification
- Full material traceability
- Optional drain connection or valve

## Progressing Cavity Pumps



For Industrial, Sanitary and Hygienic applications

- EHEDG and 3A approved
- Flowrates up to 260 M<sup>3</sup>/Hr, Pressures up to 48 Bar
- For Effluent, Waste Transfer and Bioreactors
- Food And Food Product Transfer
- Unique stator/rotor geometry provides longer service



email: [sales@hpeprocess.com](mailto:sales@hpeprocess.com)

# Positive Displacement Process Pumps

## Dosing and Metering Pumps



Dosing pumps for additives, colours and flavours. HpE can supply a pump, but adosing pump on its own is only part of the job. We also supply back pressure valves, injectors, suction tubes and calibration tubes.

Once the liquid is dosed into a line, it also needs mixing – no problem if the product in the line is in turbulent flow, but in laminar flow systems mixing 2 streams can be difficult, with pump pulse rate significantly affecting mixer efficiency. HpE Process can size your dosing pump, product transfer pump and a static mixer as a complete system.



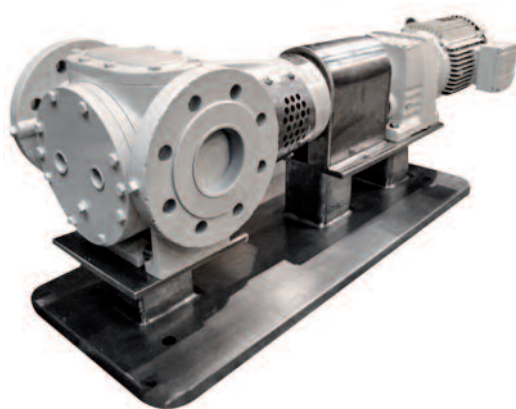
## Chocolate Pumps



Where chocolate lines are never cleaned, the industry standard pump is the internal tooth gear pump. It uses a combined PTFE packed gland / camban shaft seal arrangement and increased internal gear clearances designed specifically for your product and is fitted with heating jackets as standard.

Selection of these pumps needs some care – different types of chocolate respond differently to shear rate and the rotor tip speed of the pump can affect product quality. HpE Process have the knowledge and experience of chocolate pumping to be able to size your pump for best product quality.

These pumps are also limited to 6 bar differential pressure – any more than that and the pump separates the cocoa solids from the oils. We can select other pumps in our range for areas where higher pressure or CIP may be required.



## Unibloc Pump Range

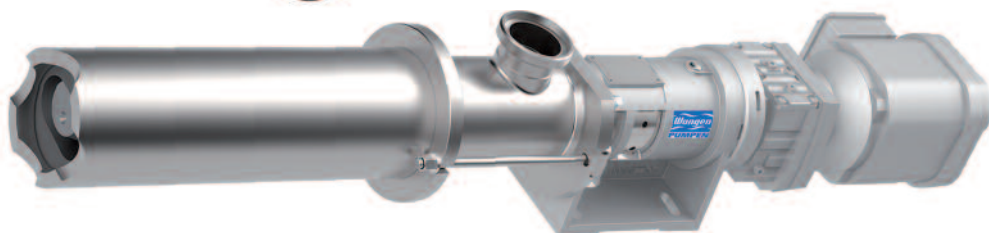


### For Food and Pharmaceutical

- Fully machined stainless construction
- Stainless, plastic and hybrid rotors available
- Front loaded shaft seals
- Various inlet types and custom options
- Front loaded shaft seals
- Sanitary, easy-clean design
- Horizontal or vertical mounting

Single or double mechanical seals, O ring seals or our unique double “O Lip Seal” which combines the benefits of both O ring and Lip seal for chocolate and other difficult seal products.

Unique “Meat” pump uses composite rotors that are easily and cheaply replaced



# Positive Displacement Process Pumps

## Graco Saniforce Range



### For Sanitary applications

Graco are global specialist manufacturers of pumps and equipment for moving medium to high viscosity fluids.

Their Saniforce range is designed specifically for the food industry and can cope with the stringent demands that the food manufacturers make.

HpE Process have been hygienic pump specialists for over 25 years and are delighted to have been appointed a Graco Specialist distributor.

The Saniforce range comprises air operated diaphragm pumps, air operated piston pumps and bin emptying / un-loading equipment.

All the Saniforce range are designed for food use and for strip-down cleaning.



## Graco Piston Pumps



### Available in eight different models

Graco's powerful line of sanitary piston pumps move extremely difficult materials when others cannot. They have pressure ratios up to 12:1 and are ideal for low to medium viscosity materials.

- Flow rates to 53L/ Min
- Pressures to 80 bar

## Graco Diaphragm Pumps



### Available in eight different models

Graco's powerful line of sanitary AODD pumps move extremely difficult materials when others cannot. They are ideal for low to medium viscosity materials and can be fitted with ball or flap valves for different solids handling capability.

- Flow rates to 570L/ Min gpm
- Pressures to 8 bar



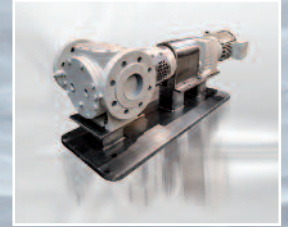
## Graco Saniforce Drum Unloader Pump Systems



Graco's Saniforce drum unloaders are used in combination with either the diaphragm or piston pumps. They can evacuate medium to high viscosity products from their original 55-gallon (208L) containers, in less than 5 minutes – without diluting or shearing the material.

- Extremely fast evacuation rates up to 100 gpm (400 lpm)
- Both Graco sanitary AODD and piston pump systems are available.
- Superior plate design with inflatable wiper seals – which can be adapted to any drum or bin size and shape
- Pumps from a variety of barrels, including tapered/conical plastic drums
- Graco sanitary drum unloader pumps will unload viscosities up to 250,000 cps (including caramel)





**HpE Process Ltd deliver sustainable solutions to the following industries**

- Adhesives
- Architectural
- Automotive
- Beverage
- Bio Chemicals
- Bio Tech
- Brewing
- Chemical
- Confectionery
- Dairy
- Food
- Household
- Paints and Coatings
- Paper
- Personal Care
- Pharmaceuticals
- Ready Meals
- Water



**HpE Process Limited**

Unit N2, Gildersome Spur, Leeds, West Yorkshire, LS27 7JZ

Telephone: 0113 252 6712 Fax: 0113 253 8125

email: [sales@hpeprocess.com](mailto:sales@hpeprocess.com) [www.hpeprocess.com](http://www.hpeprocess.com)