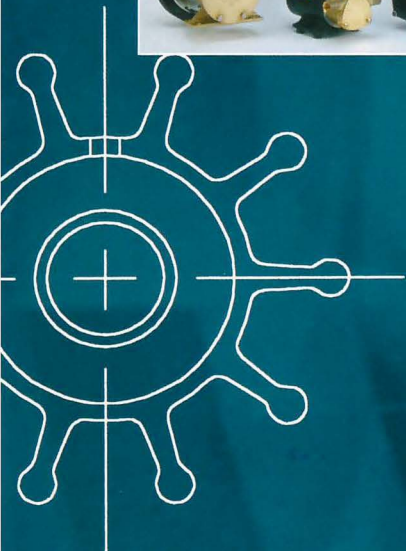
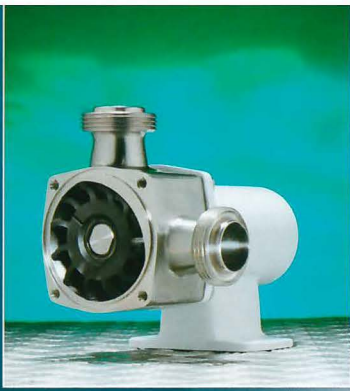




FLEXIBLE IMPELLER PUMPS



Jabsco

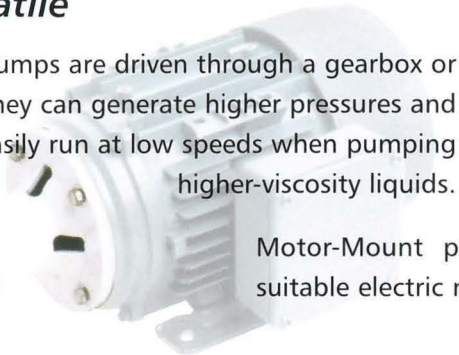
Jabsco Flexible Impeller pumps:

- **Reliable**
- **Capable**
- **Versatile**

Application Capability of Jabsco Product Range

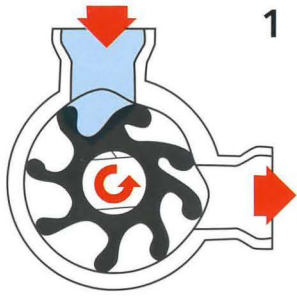
Maximum Flow	520 litres/minute
Maximum fluid viscosity	50,000 cP
Temperature of Fluids	0 to 90° C
Maximum differential pressure	5 bar

Pedestal Pumps are driven through a gearbox or by a belt. They can generate higher pressures and can be easily run at low speeds when pumping higher-viscosity liquids.

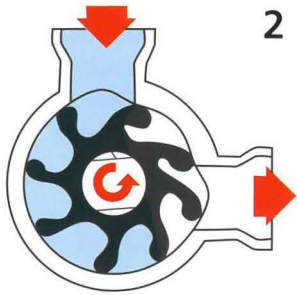


Motor-Mount pumps are mounted on a suitable electric motor for lower viscosities.

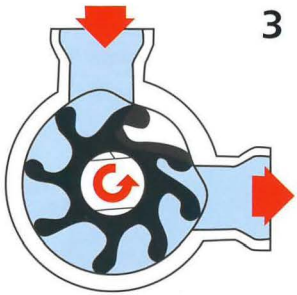
Clutch Pumps are fitted with a pulley and either a manual or electro-magnetic clutch to engage and disengage the drive.



1



2

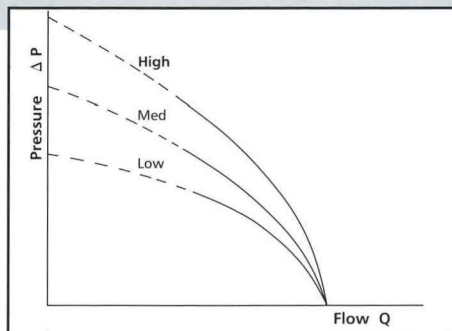


3

Flexible Impeller Pump Principle

On start-up, air in the inlet pipe is displaced and liquid is drawn into pump (1) then carried through (2) to be discharged at a steady flow rate (3). This action combines gentle pumping with true dry priming capability

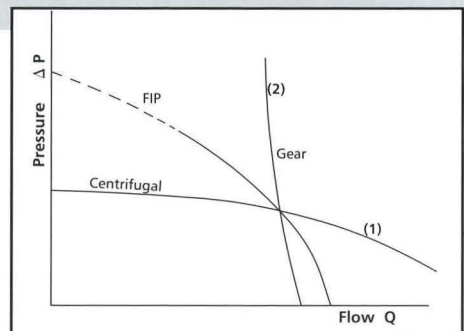
Performance choices:



Jabsco Impellers can be supplied with alternative pressure ratings according to the needs of your applications for:

- Long Life
- High pressure delivery
- Stable flow rate
- Viscous liquid pumping
- Power Efficiency

The optimum flow rate:



The Flexible Impeller pump performance curve is:

- 1) Steeper than a centrifugal pump of the same impeller diameter, giving much improved flow capability at varying pressures (heads)
- 2) Shallower than a gear pump, preventing the Flexible Impeller pump from generating dangerously high pressures which could damage the pump or system

Jabsco Impellers are manufactured in rubber compounds selected for their chemical compatibility:

- Neoprene** Longest life, good long-term flow control
- Hygienic Neoprene** Food-grade to US 3A Standard 18-02 and FDA
- Nitrile** Excellent resistance to oils
- EPDM** Best for hot water-based fluids and CIP cleaning temperatures Food Grade to 3A and FDA standards
- Viton®** Excellent chemical resistance but lower performance and shorter life

Viton® is a registered trade mark of DuPont Dow Elastomers

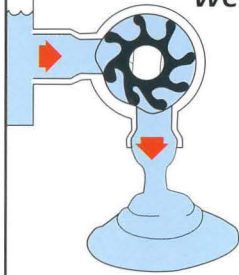


Features and Benefits

Flexible Impeller pumps from Jabsco...

How can such a **simple pump** have **so many benefits?**

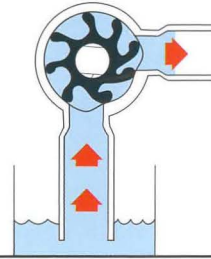
Able to pump viscous as well as thin liquids



- Flexible Impeller Pumps operate over a wide speed range, the thinner the liquid the faster we can pump it!
- They regularly handle liquids with viscosities up to 50,000 cP.
- Exceptionally gentle pumping action causes minimal damage to shear-sensitive fluids such as gels, pastes, protein suspensions and food sauces

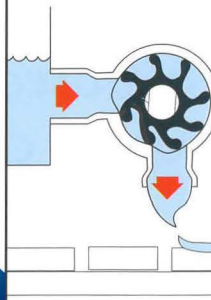
Self-priming even when dry

- Can be mounted above the supply tank and will lift liquid up to 5 metres without the need for a fluid reservoir or foot-valve
- Will extract the last few litres, minimising waste – the original “liquid vacuum cleaner”



- No retained liquid to degrade or contaminate the next batch
- Excellent suction and vacuum-pulling ability over 600 mbar (25 in Hg)

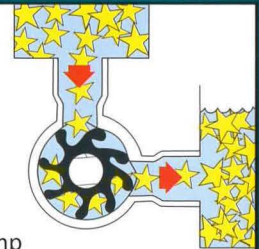
Pulsation-free flow



- Smooth steady pumping action without ripples or pressure spikes
- Even flow rate ideal for filling, dosing, coating and enrobing
- Consistent pressure for more efficient filtration

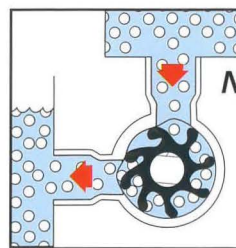
Unrivalled solids handling

- Soft solids in suspension such as fruit pieces and chopped vegetables pass through with negligible crushing
- Hard solids including edible nuts, seeds and crystals will pass through without stopping the pump
- Even unintentional hard solids such as loose screws, weld material and fruit stones will not damage a Flexible Impeller Pump



Compact size and versatile designs

- Exceptionally high flow rate – compare it to other pump types of the same size!
- Fits into smaller spaces – simplifies installation and equipment design
- Flexibility of mounting and pipe connections – fix it anywhere and pipe it up!

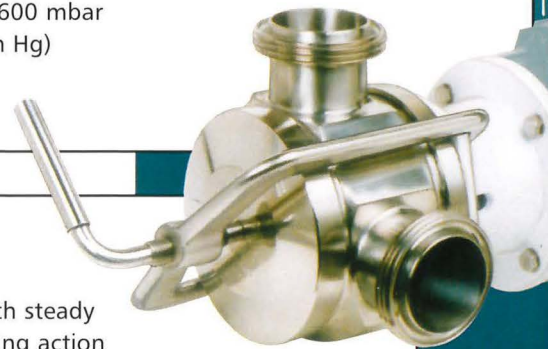
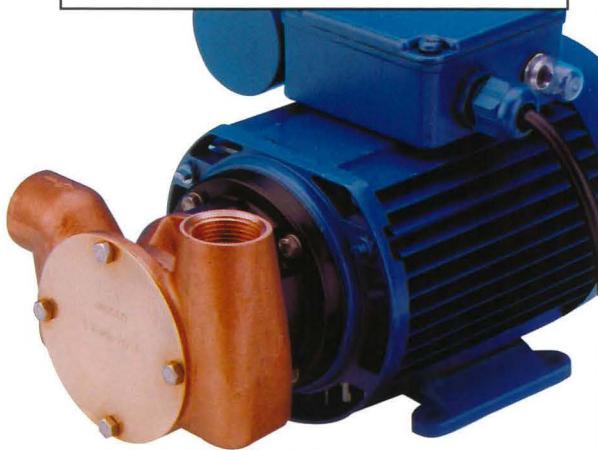


No air-locking or foaming

- Positive-displacement pumping action prevents air-locking caused by gas build-up, entrained air pockets or intermittent liquid supply
- Gentle action does not emulsify liquids or cause foaming

Easy low-cost servicing

- Very few moving parts to wear or break
- Spare parts are low-priced and are readily available
- Spares are easy to fit; most unskilled users can change an impeller



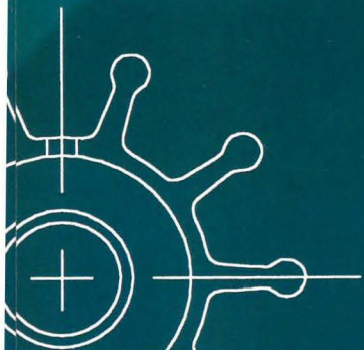
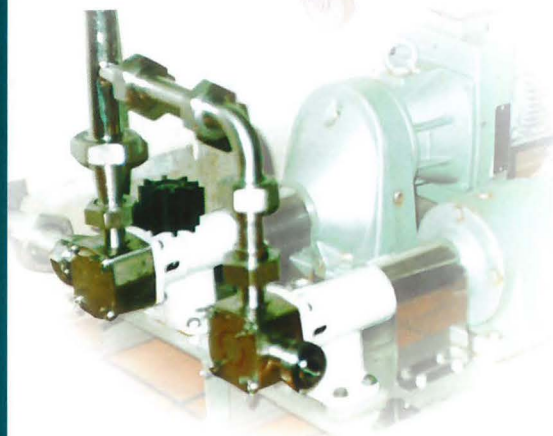
Applications

**Jabsco pumps
continue to be
successfully used in:**

- Food Processing
- Pharmaceutical production
- Metal cutting factories
- Chemical industries
- Paints and dyes
formulation
- Brewing
- Wine Making
- Soft Drinks production
- Adhesives and sealants
- Agricultural machinery
- Leisure Boats and small
craft
- Dockside Pump-out
- Marine Engine Cooling
- Electroplating
- Photographic Processing
- Farm Milk Collection
- Sampling
- Polyelectrolyte transfer
- Condensate Removal
- Tank Filling
- Tank Washing
- Recirculation
- Mixing
- Dosing
- Metering
- Filtration



*The diversity of applications
into which Jabsco Flexible
Impeller Pumps can be
installed is limited only by the
imagination of the
suppliers and
users*

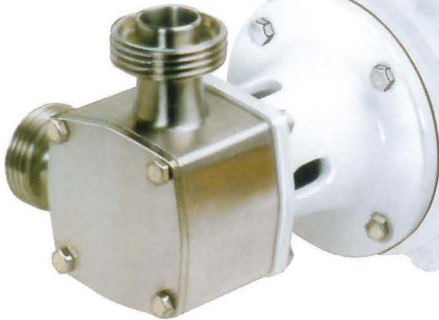


Hygienic & Industrial Stainless-Steel Pumps

Jabsco 28 Series Hygienic pedestal-foot and motor-mounted pumps

Widely used in production and processing of:

- Foods, sauces, doughs, preserves, liquid egg, meat pastes
- Dairy products, milk, cream, yoghurt, cheeses
- Cosmetics, toothpaste, shampoos, soaps
- Pharmaceutical creams & lotions
- Wines, beers, soft drinks, fruit juices & syrups



Especially suited to:

- Ingredients unloading and transfer
- Tank filling and emptying
- Recirculation and mixing
- Portion and container filling
- Brine Injection
- Sampling, filtration and more



Product Range Features:

- All 316 stainless steel parts with high surface finish
- Hygienic rubber impeller leaves no taste or odour
- Certified to US 3A Standard 02-09
- Long-life mechanical shaft seal
- Clean-in-place or easy strip-to-clean
- Variety of port and impeller material options

Jabsco 28 Series Industrial pedestal-foot and motor-mounted pumps

Widely used in production and processing of:

- Corrosive chemicals; alcohols and solutions
- Abrasive suspensions and slurries
- Soaps and foaming solutions
- Inks, dyes, paints and pigments
- Viscous adhesives, thickeners and raw materials



Especially suited to:

- Transfer
- Filtration and separation
- Sampling
- Recirculation and mixing
- Dosing and Metering

Product Range Features:

- Chemical-resistant 316 stainless steel parts
- Rugged heavy-duty construction
- Replaceable wearplates resist abrasion
- Passes even hard metal particles without stalling
- Long-life mechanical shaft seal
- Variety of shaft seal & impeller material options

Jabsco also manufacture Lobe Pumps for higher pressures, flows and temperatures

28 Series Stainless Steel Pumps:

Flows from 1 to 520 litres/minute

Pressures up to 5.0 bar

Viscosities up to 50,000 cP

Soft solids handling up to 18 mm diameter

Hard solids handling up to 14 mm diameter

Fluid & CIP Temperature 0 to 90° C

Self-priming up to 4.5m



Small DC Motorised Pumps

Jabsco low-voltage DC motor driven pumps especially for vehicles

Pumps with DC electric motors:

Flows from 5 to 50 litres/minute
Pressures up to 2.5 bar
Viscosities up to 500 cP
Solids handling up to 4mm diameter
Fluid Temperature 0 to 90°C
Self-priming up to 2.4m

Product Range Features:

- Unrivalled range of models with DC motors
- Low-voltage is safe in wet environments
- Runs from standard vehicle battery, 12 or 24V
- Self-priming even from dry start-up
- Run-dry option on larger models
- Fully tested, CE marked and ready to install



Jabsco also manufacture specialised pumps for Diesel Refuelling - ask for details

Non-Metallic Pumps

Jabsco Epoxy & Phenolic Resin Pumps

Plastic Pumps:

Flows from 1 to 135 litres/minute
Pressure up to 2.5 bar
Viscosities up to 10,000 cP
Hard solids handling up to 6 mm diameter
Fluid Temperature 0 to 90°C
Self-priming up to 3.5m

Widely used for pumping:

- Acids and Alkalis
- Electro-plating solutions
- Photographic chemicals
- Highly corrosive chemicals



Especially suited to:

- Recirculation
- Filtration
- Filling Machines
- Dilution
- Waste Disposal

Product Range Features:

- High-resistance thermoset plastic pump body
- No metal parts in contact with fluid (040 & 080 sizes)
- Chemical-resistant rubber impellers
- Easy to clean & service

Milk Tanker Pumps



Tankermaster specialised pumps are available for Milk Tanker loading at dairy farms

- Bulkhead-mounted for hydraulic drive
- Quick-release end-cover for winter drain-down and inspection
- By-Pass option for effective CIP without the need to run the pump
- Loading rates up to 580 litres per minute

Utility Pumps

Jabsco multi-purpose motorised bronze pumps

Widely used in:

- Metalworking Factories
- Agriculture and Horticulture
- Waste and Water Treatment works
- Many areas of manufacturing and production
- Plumbing and home maintenance services

Especially suited to:

- Sump-emptying and cellar drainage
- Machine tool coolant transfer
- Cleaning and filtration
- Washdown equipment
- Transfer and re-circulation



Product Range Features:

- Handles water-like and medium viscosity liquids
- Excellent self-priming even from dry start-up
- Unaffected by small solid contaminants
- Can run-on 'dry' for up to 30 minutes
- Quick and easy servicing by unskilled people
- Compact, versatile and ready to use

Dry-run Utility Pumps:

Flows from 1 to 80 litres/minute

Pressures up to 2.5 bar

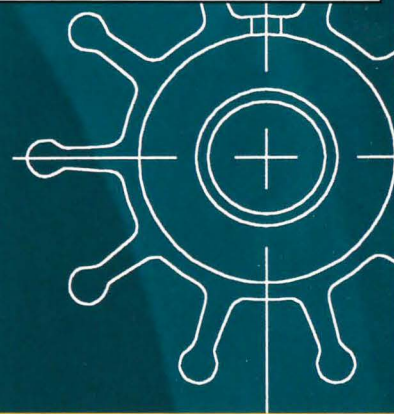
Viscosities up to 600 cP

Hard solids handling up to 4 mm diameter

Fluid Temperature 0 to 90°C

Self-priming up to 3.0m

Dry Running up to 30 minutes



Bronze Pumps

Jabsco Bronze foot, motor-mount, flanged, pulley and clutch-drive pumps

Widely used for:

- Marine diesel engine raw-water cooling
- Marine bilge pumping, deck and anchor wash
- Chemical processes, recirculation, filtration
- Machine-tool coolants, lubricants, sump-emptying
- Agricultural, factory and Utility Company duties



Especially suited to:

- Salt-water pumping
- Mildly aggressive chemicals
- Abrasives in suspension
- Marine toilet waste pump-out

Bronze Pump Range:

Flows from 1 to 520 litres/minute

Pressure up to 4.0 bar

Viscosities up to 10,000 cP

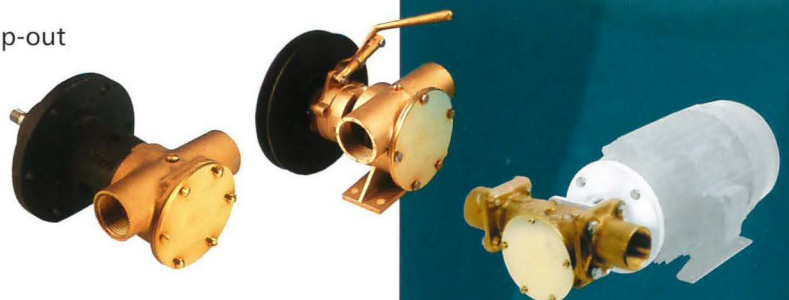
Solids handling up to 18 mm diameter

Fluid Temperature 0 to 90°C

Self-priming up to 4.5m

Product Range Features:

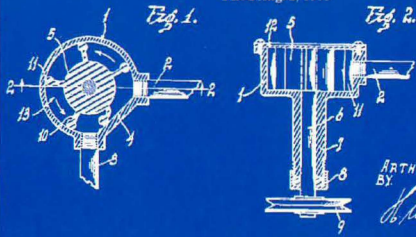
- Inexpensive, versatile pump; easy to install
- Marine-quality bronze and stainless-steel parts
- Replaceable wearplates, endcovers and cams
- Bareshaft or pulley-driven versions
- Manual or Electromagnetic clutches available
- Foot or flange-mounting



Feb. 6, 1940.

A. M. BRIGGS
ROTARY PUMP
Filed Aug. 2, 1938

2,189,356



The Flexible Impeller pump was invented in 1938 by Art Briggs and Jack Streeter; they rearranged their initials to form the name Jabsco. They patented the pump type and continued to develop it.

Today, Jabsco offers a comprehensive and unrivalled range of specialised positive-displacement pumps supplied to diverse sectors of industry worldwide, including:

- Food & Dairy
- Pharmaceuticals production
- Chemical Transfer
- Leisure and Commercial Marine
- Agriculture
- Construction Equipment
- Forestry Machines
- General Industrial applications

Pump types include:

- Flexible Impeller Transfer pumps
- Rotary Lobe Process pumps
- Sliding Vane Diesel Refuelling pumps
- Electric Diaphragm Pumps
- Air-Operated Double-Diaphragm Pumps
- Drum & Barrel-emptying pumps



Jabsco products are supported by a committed, thoroughly trained Customer Sales and Service team who provide technical and commercial advice.

The Jabsco web-site is a source of detailed product and application information. You can also download technical data sheets from the site.

We are also famous for our global distribution network offering local advice and knowledge, pump selection and installation guidance, pump and spares stockholding, system design and components, complementary products and full service facilities.

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PUMP

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