



ITT

A Global Leader in Pump Solutions

Superior Solutions for your
pumping problems



Engineered for life



Specialist Pumps for Industrial Applications

Jabsco, Flojet, LVM and Totton are well-respected brand names of ITT, the largest pump manufacturer in the world. Whilst many pumps used in industry are centrifugal pumps, this type has some limitations. Most pumps featured in the following pages utilise well-proven Positive Displacement pumping principles; their specialised features make them ideal not only for general pumping but also for those 'difficult applications'.

- ▲ Lifting liquid from below the pump
- ▲ Transferring viscous liquids
- ▲ Hard and soft suspended solids
- ▲ Extreme temperatures
- ▲ High pressures
- ▲ Dry running
- ▲ Submerged pumps
- ▲ DC low voltage supply
- ▲ Restricted space



How do they work?

- 1 Fluid is drawn into the pump and completely fills the space between the rotors
- 2 Held between the rotor lobes and the pump case, closed cells of fluid are carried smoothly through the pump
- 3 The intermeshing rotor lobes positively displace the fluid volume, generating flow and overcoming the discharge pressure

Rotary Lobe Pumps

Jabsco Lobe pumps use two contra-rotating rotors to create a steady, positive pumping action. But, as the rotors never touch each other or the pump case, Jabsco hygienic Lobe Pumps will not contaminate or degrade your fluids. What comes out is what goes in; no more - no less.

- **Hygiene Standards:** Crevice-free designs, external gears & bearings, together with all-stainless-steel contact parts & high surface finishes, surpass users' hygiene and cleanability expectations.
- **Reliability:** Lobe pumps offer long-term dependability with minimal cost of servicing and replacement parts for the process engineer who relies on his pumps.
- **Application Capability:** Lobe pumps will generate the highest pressures and flow rates delivered by any of the Jabsco product range. Highly viscous, shear-sensitive liquids and suspended soft solids will not be degraded.



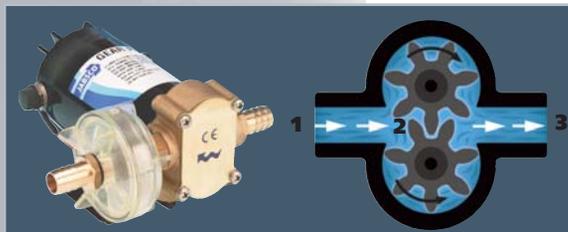
How do they work?

- 1 The vanes create a partial vacuum for near-instant dry self-priming
- 2 As the rotor rotates, each successive vane draws in and carries more liquid from the intake to the discharge port
- 3 The vanes follow the shape of the eccentric pump body and force liquid out the discharge port

Sliding Vane Pumps

These Jabsco pumps utilise the well-proven sliding vane principle. Wherever the application demands a reliable pump with no elastomeric moving parts, a sliding vane pump is ideal, especially for transfer of diesel fuel and hydraulic oils.

- **Durable:** Heavy-duty construction in wear-resistant, long life materials. Most models have been independently vibration tested.
- **Wide Temperature Range:** Both metallic and thermoplastic parts are carefully designed to work consistently, even at low temperatures.
- **Self-priming:** Pumps instantly with dry suction lifts up to 5m (16ft).
- **Field-proven:** Many, many thousands of Jabsco pumps are working every day in the arduous environments of construction machinery, quarrying, heavy vehicles and road building.



How do they work?

- 1 One gear is driven by an external power source (the driver) and this meshes with the driver gear. The gears are enclosed in a close fitting casing and the radial and axial clearance is controlled
- 2 As the gears rotate a partial vacuum is created in the suction port, allowing atmospheric pressure to push liquid into the pump
- 3 Liquid is transferred around the periphery between the gear teeth and discharged into the discharge port

Gear Pumps

Gear pumps are ideal for the transfer of hydraulic and light oils, water and diesel fuel. They are 12 or 24V DC powered, making them suitable in automotive, bus and truck applications.

Jabsco, Flojet, LVM and Totton pumps are widely specified and used by:

- ▶ Construction Equipment manufacturers
- ▶ Floor Cleaning Machine suppliers
- ▶ Food & Pharmaceutical processors
- ▶ Chemical suppliers and users
- ▶ All sectors of general industry
- ▶ Marine engineers & boat builders
- ▶ Agricultural Sprayer builders
- ▶ OEM specialist machine designers
- ▶ Dairy, beverage and soft drinks producers
- ▶ Water treatment & purification specialists
- ▶ Contractors, consultants & pump advisors

Flexible Impeller Pumps

The flexible impeller pump principle was invented and patented by Jabsco in the 1930's. It continues to be used around the world in hygienic, industrial and chemical applications that demand its special features at an economic price.

- **Versatile:** The flexible impeller pump combines the class-leading dry self-priming capability of a positive displacement pump with the general transfer abilities of a centrifugal pump. The pump can be mounted at any angle and most models will pump in either direction with equal efficiency.
- **Difficult Liquids:** It will handle thin, shear-sensitive and viscous liquids and can easily pass both soft and hard solids in suspension.
- **Self-priming:** Pump can be mounted above the liquid level and will fill the inlet pipe every time. Dry suction lifts up to 4.5m (15ft) and up to an outstanding 8m (25ft) when wetted.
- **Simplicity:** Only one moving part, a tough, long-life, wear-resistant flexible impeller.



How do they work?

- 1** Flexible impeller blades create a partial vacuum for near-instant dry self-priming
- 2** As the impeller rotates, each successive blade draws in liquid and carries it from intake to outlet port
- 3** As the flexible impeller blades contact the offset cam they bend with a gentle squeezing action that provides a continuous, pulsation-free flow

Diaphragm Pumps

Flojet and Jabsco diaphragm pumps are reciprocating positive displacement pumps. They have no rotating shaft seal and therefore are technically seal-less and most designs have no metallic parts in liquid contact. This widens their scope of application as they will handle many corrosive, hazardous and non-lubricating liquids.

- **Choice:** Manual, low and high-voltage electric and air-operated versions meet almost every customer's requirements. Electric pumps also have optional automatic control switch and by-pass valve for improved application matching.
- **Self-priming:** Dry vertical lift from 2.4m (8ft) up to an outstanding 8.5m (28ft).
- **Dry Running:** Diaphragm pumps can be run dry for extended periods with no damage even when the liquid supply is exhausted.



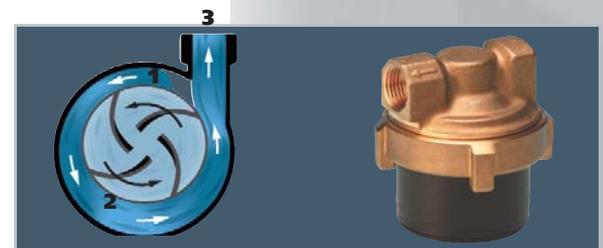
How do they work?

- 1** The diaphragm, pulled back by the movement of a piston, creates a partial vacuum to self-prime the pump
- 2** Fluid is drawn into the pump chamber through the inlet valve whilst the vacuum closes the outlet valve
- 3** Forward movement of the diaphragm pressurises the liquid, closing the inlet valve and opening the outlet valve through which liquid is expelled under pressure

Centrifugal Pumps

Centrifugal pumps handle high volumes with a smooth and non-pulsating flow. The flow rate can be regulated from maximum output to no flow with no damage to the pump. An excellent pump for general transfer applications.

- **Low Maintenance:** Few moving parts mean that wear and tear due to operation is minimal.
- **Easy Installation:** Compact size for flow rate. Option of port positions simplifies pipe runs.
- **Versatility:** Centrifugal pumps can be built in submersible form.
- **Low Power Consumption:** Electric centrifugal pumps consume less power than most other pump types.



How do they work?

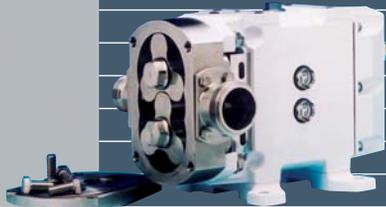
- 1** The rotating impeller gives velocity energy to the liquid, moving it to the periphery of the volute casing and towards the discharge port.
- 2** The volute casing discharge arrangement converts velocity energy into static pressure.
- 3** Centrifugal pumps must be either initially primed or mounted in such a way that liquid is permanently available at the inlet port (e.g. submersible pumps).



Rotary Lobe Pumps

JabSCO's range of rotary lobe pumps incorporates the very latest in hygienic design concepts in order to fulfil your ever-increasing expectations for improved cleanability, hygiene and sterilisability. Widely used in demanding continuous and batch processes, wherever product quality and integrity are paramount.

24 Series Lobe Pumps



| Application Capability: | |
|-------------------------|---|
| | Field-proven design uses 3-lobe rotors |
| | 10 models: flows from 36 to 2100 lpm (9 to 555 gpm) |
| | Differential Pressures up to 15 bar (217 psi) |
| | Viscosities from 1 to 1,000,000 cP |
| | Working Temp from -40 to +200°C (-40 to +392 F) |
| | 316-grade austenitic stainless-steel contact parts |
| | Optional 2-lobe and rubber-covered rotors |
| | Mechanical shaft seals, gland packings, or O-ring seals |
| | Certified to US 3A sanitary standard 02-10 |

- ◀ **RUGGED DESIGN:** The solid construction of these pumps ensures maximum shaft stiffness to minimise premature pump failures.
- ◀ **LOW MAINTENANCE:** The rotors are fully interchangeable avoiding the need to retime which is a problem with many other rotary lobe pumps.
- ◀ **FLEXIBLE:** The 24 Series utilises 'bolt on' features which allow quick and easy interchange of parts.

Hy~Line Lobe Pumps



| Application Capability: | |
|-------------------------|---|
| | Modern, leading-technology design uses 'scimitar' rotors |
| | Range of models with max flow of 1809 lpm (478 gpm) |
| | Differential Pressures up to 15 bar (217 psi) |
| | Viscosities from 1 to 1,000,000 cP |
| | Working temperatures from -30 to +140°C (-22 to 284 F) |
| | 316-grade stainless-steel, optional low-carbon 316L |
| | Front-loading seals, optional O-ring and multi-lip seals |
| | High CIP cleanability & certified to US 3A standard 02-10 |

- ◀ **SUPER HYGIENIC:** Fully conforms to 3A Hygiene Standards. All elastomers meet US FDA requirements. Versions available certified to EHEDG (European Hygienic Equipment Design Group) CIP & SIP protocols.
- ◀ **WIDE APPLICATION RANGE:** High efficiencies, high pressure ratings and compact size mean that even extreme applications can be satisfied with smaller pumps.
- ◀ **LOW MAINTENANCE COSTS:** Fluid contact parts including product seals are fully accessible without removing the pump casing. Makes inspection, servicing and maintenance quick and easy. Bi-wing 'scimitar' rotors eliminate the need to synchronise or 'time' the pump shafts.

Ultima/55 Series Lobe Pumps

- ▶ **ULTIMATE HYGIENIC STANDARDS:** Tested and approved to the clean-in-place and sterilisability protocols of EHEDG (European Hygienic Equipment Design Group) and utilising only materials which meet US FDA title 21 section 177.2600 + USP CLASS V1 + 3A.
- ▶ **CLEANER BY DESIGN:** Totally crevice-free construction with external rotor retention and gasket type joints in place of 'O' rings reduce the number of potential product entrapment areas. Larger models feature all-stainless-steel construction.
- ▶ **LOW PRODUCT SHEARING:** The rotor design ensures high volumetric efficiency on low viscosity products resulting in low shear rates and low product damage.

| Application Capability: |
|--|
| Ultra-hygienic design for the most demanding processes |
| 9 models: flows from 16 to 684 lpm (4 to 180 gpm) |
| Differential Pressures up to 20 bar (290 psi) |
| Viscosities from 1 up to 1,000,000 cP |
| Working temperatures from -30 to +140°C (-22 to 284°F) |
| Bi-wing 'scimitar' rotors or 5-lobe rotors |
| Front-loading high-integrity shaft seals |
| Crevice-free design, no O-rings in fluid contact |
| Certified to EHEDG CIP & SIP protocols |



Pureflo 21 Super Hygienic Diaphragm Pump

Jabsco's Pureflo 4-piston diaphragm pump is designed to be used in pharmaceutical, biotech, food or cosmetic applications. The design complies with the stringent requirements of these industries. The pump and controls are mounted in a stainless steel cabinet. The system can be cleaned easily and the simple construction allows safe and easy use.

- ▶ Hygienic Santoprene® diaphragm conforms to FDA requirements
- ▶ Laboratory top complete unit
- ▶ Fixed or variable speed AC unit
- ▶ Easy to clean, no shaft seals
- ▶ Can run dry, dry self priming
- ▶ Low noise, constant flow
- ▶ Compact and small

| Application Capability: |
|--|
| Adjustable flow up to 1,380 l/h (365 US gal/h) |
| Pressure up to 6.0 bar (87psi), in constant use 5.0 bar (72psi) should not be exceeded |
| Temperature up to 60°C (140°F) in constant use, |
| CIP up to 90°C (194°F) |
| SIP 135°C (275°F) |
| Viscosity up to 250 centipoise |



Applications

Food Processing:

Ingredients, sauces, condiments
Milk, cheese, curds, yoghurt, cream
Brewing and wineries
Soft drink concentrates, syrups
Yeast, bakery doughs, fillings, confectionery, enrobing

Chemicals & Industrial

Paints, inks & dyes
Adhesives & resins
Sealants & polymers
Paper coatings & additives

Pharmaceuticals:

Creams & lotions
Tablet coatings
Buffer solutions
Filtration & Chromatography
Aseptic processes
Fermentation feed & harvest

Personal Care:

Shampoos, soaps, & gels
Cosmetics
Skin creams & lotions
Household cleaning chemicals





Hygienic Flexible Impeller Pumps

Jabsco hygienic flexible impeller pumps handle low and high-viscosity liquids, gels and pastes and can pass suspended soft and hard solids with minimal damage. The output flow is smooth, steady and totally pulsation-free and their gentle pumping action will not break down shear-sensitive or fragile liquids. Designed to be cleaned in place or easily strip-cleaned, Jabsco flexible impeller pumps frequently offer a more suitable and cost-effective alternative to many other pump types.

28 Series Hygienic Pedestal Pumps



Application Capability:

5 Models: flows from 65 to 520 lpm (14 to 114 gpm)
 Differential Pressures up to 5.0 bar (72 psi)
 Viscosities from 1 to 50,000 cP
 Fluid and CIP Temperature 0 to 90°C (32 to 194 F)
 Self-priming up to 4.5m (14ft)
 Certified to US 3A sanitary standard 02-10 !8-03

- ◀ Foot-mounted to couple to gearbox or belt-drive
- ◀ Hygienic rubber impeller leaves no taste or odour
- ◀ Long-life mechanical shaft seal
- ◀ All 316 grade Stainless Steel parts with high surface finish
- ◀ Used in Food, Dairy, Beverage, Healthcare & Cosmetic sectors

28 Series Hygienic Motor-mount Pumps



Application Capability:

5 Models: flows from 65 to 520 lpm (14 to 114 gpm)
 Differential Pressures up to 3.0 bar (43 psi)
 Viscosities from 1 to 4,000 cP
 Fluid and CIP Temperature 0 to 90°C (32 to 194 F)
 Self-priming up to 4.5m (14ft)
 Certified to US 3A sanitary standard 02-10 !8-03

- ◀ Used in Food, Dairy, Beverage, Healthcare & Cosmetic sectors
- ◀ Close-coupled to motor (unibloc); compact and economical
- ◀ Hygienic rubber impeller leaves no taste or odour
- ◀ Long-life mechanical shaft seal
- ◀ All 316 grade Stainless Steel parts with high surface finish

Tankermaster Milk Tanker Pumps



Application Capability:

2 Models: loading up to 520 and 680 lpm (14 to 114 gpm)
 Fluid and CIP Temperature 0 to 90°C (32 to 194 F)
 Certified to US 3A sanitary standard 02-10 !8-03
 Self-priming from dry up to 3m (10ft)

- ◀ Specialised pumps 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



Industrial Flexible Impeller Pumps

Flexible impeller pumps are versatile, compact and easy to use. They will handle low and high-viscosity liquids and can pass soft and hard solids and abrasives with minimal damage. Jabsco flexible impeller pumps frequently offer a more suitable yet less expensive alternative to many other pump types. Available in a variety of materials and designs, so it is easy to find the right FIP for a diverse range of applications including chemicals, oils and lubricants, salt-water recirculation, container emptying & filling and polyelectrolyte transfer.

28 Series Industrial Pedestal Pumps

- ▶ Chemical, finishing, production and industrial sectors
- ▶ All 316 grade Stainless Steel parts in fluid contact
- ▶ Foot-mount to couple to gearbox or belt-drive
- ▶ Chemical-resistant rubber impeller
- ▶ Long-life mechanical shaft seal
- ▶ Replaceable wearplates resist abrasion
- ▶ Undamaged even by small hard particles

| Application Capability: |
|--|
| 5 Models: flows from 65 to 520 lpm (14 to 114 gpm) |
| Differential Pressures up to 5.0 bar (72 psi) |
| Viscosities from 1 to 50,000 cP |
| Fluid Temperatures 0 to 90°C (32 to 194 F) |
| Self priming up to 4.5m (14ft) |



28 Series Industrial Motor-mount Pumps

- ▶ Chemical, finishing, production and industrial sectors
- ▶ All 316 grade Stainless Steel parts in fluid contact
- ▶ Close-coupled to motor (unibloc); compact and economical
- ▶ Chemical-resistant rubber impeller
- ▶ Long-life mechanical shaft seal
- ▶ Replaceable wearplates resist abrasion
- ▶ Undamaged even by small hard particles

| Application Capability: |
|--|
| 5 Models: flows from 65 to 520 lpm (14 to 114 gpm) |
| Differential Pressures up to 3.0 bar (43 psi) |
| Viscosities from 1 to 4,000 cP |
| Fluid Temperatures 0 to 90°C (32 to 194 F) |
| Self priming up to 4.5m (14ft) |



Non-metallic Pumps

- ▶ Electroplating, photo-processing, chemical transfer sectors
- ▶ High-resistance thermoset plastic pump body
- ▶ No metal parts in contact with fluid (most models)
- ▶ Chemical-resistant rubber impeller
- ▶ Easy to clean & service

| Application Capability: |
|---|
| 4 Models: flows from 6 to 135 lpm (1 to 30 gpm) |
| Differential Pressures up to 2.5 bar (36 psi) |
| Viscosities from water up to 10,000 cP |
| Fluid Temperatures 0 to 90°C (32 to 194 F) |
| Self priming up to 3.5m (11.5ft) |



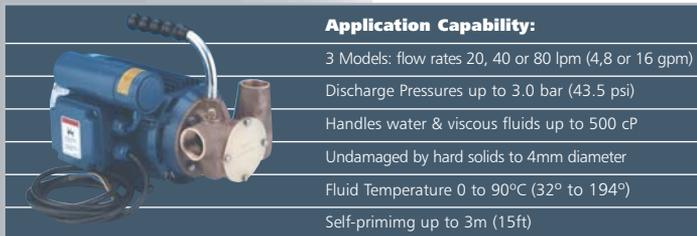


Bronze Pumps

Jabsco's Bronze pump range are cast from the highest quality materials to give a superlative finish and build quality.

Jabsco's Utility pumps are versatile, multi-purpose units that fill in where more specialised and expensive units are not practical for the job. They are widely found in use at metal working factories, agricultural facilities, waste water treatment works and building facility management companies.

Dry Run Utility Pumps



Application Capability:

3 Models: flow rates 20, 40 or 80 lpm (4.8 or 16 gpm)
 Discharge Pressures up to 3.0 bar (43.5 psi)
 Handles water & viscous fluids up to 500 cP
 Undamaged by hard solids to 4mm diameter
 Fluid Temperature 0 to 90°C (32° to 194°)
 Self-priming up to 3m (15ft)

- ✦ Multi-purpose AC motorised bronze pumps
- ✦ integral protection against dry-run for up to 30 mins
- ✦ Carry handle on all larger pumps
- ✦ Compact, versatile and always ready to use
- ✦ Self-priming even from dry start-up
- ✦ Quick and easy servicing by unskilled people
- ✦ Widely used in metalworking factories, service industries & agriculture

Bronze Foot and Motor-mount Pumps

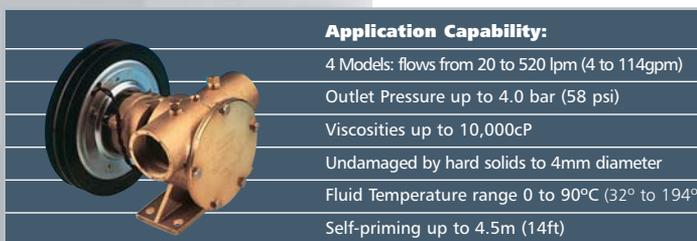


Application Capability:

7 Models: flows from 2 to 480 lpm (0.5 to 105 gpm)
 Outlet Pressures up to 4.0 bar (58 psi)
 Viscosities from water up to 10,000 cP
 Undamaged by hard solids to 4mm diameter
 Fluid Temperature range 0 to 90°C (32° to 194°)
 Self-priming up to 4.5m (14ft)

- ✦ Marine-grade corrosion resistant bronze and stainless-steel parts
- ✦ Especially for salt-water, oils & mildly-aggressive chemicals
- ✦ Replaceable wearplates, end covers and cams resist abrasion
- ✦ Foot-mounted, or fitted to IEC standard metric motors

Bronze Pulley and Clutch-drive Pumps



Application Capability:

4 Models: flows from 20 to 520 lpm (4 to 114gpm)
 Outlet Pressure up to 4.0 bar (58 psi)
 Viscosities up to 10,000cP
 Undamaged by hard solids to 4mm diameter
 Fluid Temperature range 0 to 90°C (32° to 194°)
 Self-priming up to 4.5m (14ft)

- ✦ Marine-grade corrosion resistant bronze and stainless-steel parts
- ✦ Especially for salt-water, oils & mildly-aggressive chemicals
- ✦ Replaceable wearplates, end covers & cams resist abrasion
- ✦ Belt-drive self-adjusting manual clutch with 'double-life' feature
- ✦ 12 or 24V DC electromagnetic clutch option, or fixed pulley drive

Small 12 and 24 V DC Motorised Pumps



Application Capability:

3 sizes: flows from 7 to 50 lpm (1.5 to 116 gpm)
 Discharge pressures up to 2.5 bar (36 spi)
 Handles water & viscous fluids up to 500 cP
 Undamaged by small hard debris
 Self-priming up to 2.4m (8ft)

- ✦ Unrivalled range with DC motors
- ✦ High-quality permanent-magnet motors
- ✦ Low-voltage safer in wet areas
- ✦ Self-priming even from dry start-up
- ✦ Especially for use on specialist vehicles & mobile equipment
- ✦ Run-dry protection option on larger models
- ✦ Macerator version to handle soft solids e.g. food waste

Drum Pumps

The easiest, most reliable and economical way to transfer or sample liquids from drums, vats and carboys. Jabsco's container emptying pumps offer many options of tube materials which can handle a wide range of liquids found in chemical, metal finishing, food and general manufacturing industries. The heavy-duty tubes are driven by either an electric motor featuring the latest safety cut-out switch or a compressed-air motor for areas where electricity is unavailable or would be unsafe.



D100 Drum Pumps: AC Fan Cooled Heavy Duty Motor:

- ▶ Transfer highly corrosive liquids, acids, solvents and food ingredients
 - ▶ Rugged construction pump tubes in 4 material options:
 - Polypropylene
 - 316 grade Stainless Steel
 - Kynar (PVDF)
 - Hygienic Stainless Steel to US FDA & USDA requirements
 - ▶ Seal-less design for longer life
 - ▶ Self aligning quick release coupling arrangement
 - ▶ Available in 3 tube lengths: 0.7m, 1.0m & 1.2m (2.3, 3.2 and 3.9ft)
 - ▶ Pump tubes are easily coupled to and dismantled from both Drive Options
- ▶ CE marked with full RFI suppression
 - ▶ Generous 5 metre cable
 - ▶ Large, sealed rocker switch with built in safety cut-out:
 - ▶ Switches off if power is interrupted, cannot restart unintentionally
 - ▶ Also functions as automatic overload cut-out
 - ▶ Ergonomically-designed grip suitable for a gloved hand
 - ▶ Single-phase motor available in 2 voltages:
 - ▶ 115 V 50/60 Hz
 - ▶ 230V 50 Hz with fitted UK 3-pin plug or European plug

Compressed Air Motor:

- ▶ Rotary air motor complete with control valve
- ▶ Rugged metal-shrouded exhaust muffler
- ▶ Suitable for use in hazardous environments*

Full range of accessories available including:

- ▶ Grounding (earthing) kit
- ▶ Wall storage bracket
- ▶ Trigger dispensing nozzle
- ▶ Drum bung-hole adaptor
- ▶ Inlet strainers



* When installed correctly in accordance with all product data sheets and installation instructions

Application Capability:

- Highest Flow Rates: 100 lpm (226 gpm)
- Working temp from 0 up to 93°C (32 to 200F)
- Fluids from water up to 750 cP viscosity
- Can run without liquid for 30 minutes



Diesel Refuelling Pumps

Jabsco's range of vehicle-mounted fuel transfer pumps are widely used by most of the major construction machinery manufacturers. Self-priming, fast, convenient and environmentally-responsible, these pumps deliver trouble-free fuel transfer from drums and mobile tanks. Their reliability has been proven internationally over many years in the tough environments of construction sites, forestry equipment, agricultural machinery, generator sets and even Arctic expeditions.

23870 Refuelling Pumps



Application Capability:

- Flow rate 35 lpm (9.2 gpm)
- Maximum pumping head 6m (20ft)
- Self-priming up to 2.8m (9ft) of diesel fuel
- Temperature range -30°C up to +40°C (-22° to 104°F)
- Economical price for machines up to 13 tonnes
- Fills a 200ltr (44 gal) tank in only 6 minutes

- ◀ IP55 water-protected motor
- ◀ Fully vibration tested
- ◀ 12 or 24V DC permanent magnet motor
- ◀ Intermittent run to 35 mins
- ◀ Optional on/off switch, fuse & 19 mm hose adaptors
- ◀ Full range of installation kits for OEM customers

VR050 Refuelling Pumps



Application Capability:

- Flow rate 50 lpm (11 gpm)
- Maximum pumping head 10m (32ft)
- Self-priming up to 3.0m (10ft) of diesel fuel
- Temperature range -30°C to +50°C (-22° to 122° F)
- For machines up to 30 tonnes
- Fills a 500 ltr (110 gal) tank in only 10 minutes

- ◀ 12 or 24V DC motor with thermal overload protector, IP55 water protected and corrosion-resistant case
- ◀ Optional on/off switch, fuse & 25 mm hose adaptors
- ◀ Full range of installation kits for OEM customers
- ◀ Continuously rated
- ◀ Fully vibration tested

VR100 Refuelling Pumps



Application Capability:

- Flow rate 100 lpm (22 gpm)
- Maximum pumping head 15m (49ft)
- Self-priming up to 5.0m (16ft) of diesel fuel
- Temperature range -30°C to +50°C (-22° to 122°F)
- Premium for machines up to 150 tonnes
- Fills a 1500 ltr (15.8 gal) tank in only 15 minutes

- ◀ 24V DC motor with thermal overload protector, IP55 water protected & corrosion resistant
- ◀ Optional on/off switch, fuse & 32 mm hose adaptors
- ◀ Full range of installation kits for OEM customers
- ◀ Continuously rated
- ◀ Fully vibration tested

SR060 Refuelling Pumps



Application Capability:

- Flow rate 60 lpm
- Maximum pumping head 6 metres
- Self-priming
- Temperature range -30°C up to +50°C (-22° to 122°F)
- Suitable for "short Radius" and "zero Swing" machines
- Fills a 500 ltr (110 gal) tank in only 8 minutes

A Revolutionary vehicle mounted pumping system to enable construction plant to be refueled with diesel fuel independently, from an adjacent drum, bowser or tank and into the vehicle fuel tank, safely and efficiently

- ◀ IP68 water-protected motor
- ◀ Fully vibration tested
- ◀ 12 or 24V DC
- ◀ 10 minute duty cycle
- ◀ ATEX compliant
- ◀ Intelligent controller



Diesel Fuel & Oil Pumps

Fuelmaster 40 is the ultimate portable diesel fuel transfer pump. Supplied fully assembled, this innovative accessory can be operated on the drum-top, hand-held using the convenient carry-handle, or wall mounted. Fuelmaster 40 delivers fast turn-around, reliability, convenience and value. Ideal for refuelling back-hoe loaders, agricultural machinery, forestry equipment, generators and all small plant.

Fuelmaster 40 Refuelling System

- ▶ Jabsco sliding-vane pump (also available separately)
- ▶ Reliable 12V or 24V DC permanent-magnet motor
- ▶ Thermal overload protection & in-line fuse
- ▶ Non-kink hose flexible even at -20°C
- ▶ Built-in pressure-limiting by-pass valve
- ▶ Inlet strainer and heavy-duty hose storage
- ▶ Robust dispensing trigger-nozzle
- ▶ Optional digital flow meter

| Application Capability: | |
|---|---|
| Transfers 100 ltr (22 Gallons) of diesel fuel in 3 mins |  |
| Maximum pumping head 6m (20ft) | |
| Self-priming up to 2.5m (8ft) of diesel fuel | |
| Operating range -20°C up to +40°C (-4 to 104f) | |
| Running time up to 30 minutes | |

23590 Hydraulic Oil Pumps

- ▶ Minimise spills and recontamination
- ▶ Suitable for oils up to 150 cSt (750 Staybolt Universal)
- ▶ Jabsco sliding-vane type pump
- ▶ Reliable 12V or 24V DC permanent-magnet motor
- ▶ Ideal for emptying and re-filling hydraulic oil tanks before and after servicing and repairs to construction, forestry & farm machinery and power packs

| Application Capability: | |
|---|---|
| Transfers 100 ltr (22 Gallons) of hydraulic oil in 4 mins |  |
| Maximum differential pressure 1.5 bar (22 psi) | |
| Self-priming up to 1.8m (6ft) of hydraulic oil | |
| Operating range -20°C up to +40°C (-4 to 104f) | |
| Running time up to 30 mins | |

Accessories

- Auto shut-off controller** – prevents tank over-fill
- Non-kink diesel hose** – flexible even at -20°C
- Inlet strainer** – protects pump and helps keep fuel clean

- Foot valve/check valve** – prevents run-back, minimises spills
- Shrouded inlet strainer** – protected against damage
- By-pass valve for VR050** – to use with trigger nozzle
- Full range of hose adaptors, elbows, seals & clips**

All the pumps shown on these pages are also suitable for Kerosene, Paraffin and light oils up to 100 cSt (500 Staybolt Universal) viscosity.

SAFETY: Do not use any of the pumps shown on this page for pumping petrol, gasoline or products with a flash point below 37°C



Diaphragm Pumps

Flojet diaphragm pumps combine the benefits of a self-priming positive-displacement pump with excellent chemical-resistance. They are compact, inexpensive, seal-less and able to run dry for long periods. Commonly used by OEM equipment manufacturers in applications as diverse as: agricultural spraying - floor cleaning machines - automotive servicing and washing equipment - road rollers - street sweepers - medical equipment - industrial transfer.



| Application Capability: | |
|---|--|
| Maximum flows up to 8.3 lpm (1.86 gpm) | |
| Discharge pressures up to 7 bar (101 psi) | |
| Self-priming up to 2.4m (7.8 ft) | |
| Temperature range 0 to 60°C (32 to 140F) | |
| 12, 24V DC, 115 & 230V AC motors | |
| Handles water & viscous liquids to 250 cP | |



| Application Capability: | |
|---|--|
| Maximum flows up to 3.8 lpm (1.0 gpm) | |
| Discharge pressure up to 2.4 bar (34.8 psi) | |
| Self-priming up to 0.75m (2.5 ft) | |
| 12 & 24V DC permanent-magnet motors | |
| Temperature range 0 to 43°C (32 to 109F) | |
| Handles water & viscous liquids to 100 cP | |



| Application Capability: | |
|--|--|
| Maximum flows up to 7.6 lpm (2.0 gpm) | |
| Discharge pressures up to 4.1 bar (60 psi) | |
| Excellent self-priming | |
| 12 & 24 Volt motors | |
| Ideal for sprayers, transfer and dispensing applications | |



| Application Capability: | |
|--|--|
| Maximum flows up to 15.1 lpm (4.0 gpm) | |
| Discharge pressures up to 4.1 bar (60 psi) | |
| Self-priming up to 2.4m (8ft) | |
| Ideal for a broad range of chemicals | |
| 12,24 + 230 Volt motors | |

Duplex II Pumps

- ◆ Chemical-resistant polypropylene pump head
- ◆ Latest-technology internal check- valves for reliable self-priming
- ◆ Continuous running at operating pressures
- ◆ Choice of elastomers for maximum chemical compatibility
- ◆ Internal bypass gives unique performance curve
- ◆ Optional pressure-switch control stops & starts pump

LF Low Flow Pumps

- ◆ Ultra compact 2-chamber pump - delivers flow & pressure comparable to much larger pumps
- ◆ Low current draw, perfect for battery-powered applications
- ◆ Chemical-resistant polypropylene pump head
- ◆ Choice of elastomer materials
- ◆ Built-in thermal protector
- ◆ Optional pressure-switch control, on/off switch, in-line fuse

Triplex Compact Range

- ◆ Compact automatic demand pump.
- ◆ Sealed pressure switch and motor.
- ◆ Self-priming; pup can be located above supply tank.
- ◆ Can run dry for extended period of time without damage.

Triplex Hi-Flow Range

- ◆ Quick release ports.
- ◆ Sealed pressure switch and motor.
- ◆ Pump can be located above supply tank.
- ◆ Can run dry for extended periods of time without damage.
- ◆ Built in by-pass.
- ◆ 3 chamber design allows for high flow rates for a compact pump.



Diaphragm Pumps

Flojet air-operated double-diaphragm pumps are compact and highly competitive yet offer all the benefits of much larger pumps of this type. They are self-priming from dry, seal-less for long dry-running without damage, stall-free and are truly demand-controlled. If the outlet is restricted the pump adjusts its flow to match; when the outlet is closed, the pump stops and consumes no energy then restarts automatically on demand.

Triplex Hi-Pressure Pumps

- ▶ Constructed from a selection of materials suitable for handling a broad range of chemicals.
- ▶ Sealed pressure switch and motor.
- ▶ Pump can be located above supply tank.
- ▶ Can run dry for extended period of time without damage.

Application Capability:

| |
|--|
| Maximum flows up to 5.5 lpm (1.4 gpm) |
| Discharge pressures up to 10.7 bar (150 psi) |
| Self-priming up to 2.4m (8ft) |
| 12 , 24 + 230 Volt motors |
| Ideal for a broad range of chemicals |



5100 Series Pumps

- ▶ Variable capacity from zero to maximum flow
- ▶ No risk of electric shock
- ▶ Can handle flammable liquids*
- ▶ No pressure relief or bypass valve required
- ▶ Variety of elastomers for valves & diaphragms

Application Capability:

| |
|--|
| Maximum flows up to 7.6 lpm (1.6 gpm) |
| Discharge pressures up to 5.5 bar (80psi) |
| Excellent self-priming up to 9.0m (29.5ft) |
| Temperature range up to 50°C |
| Handles water & viscous liquids up to 250 cP |



G57 Series Pumps

- ▶ Highest flow rates for any air-driven pump of comparable size
- ▶ Quick-connect plug-in liquid & air fittings for easy installation
- ▶ Leak resistant radial seals & inset moulded diaphragms
- ▶ Quiet operation with large exhaust muffler
- ▶ Variable capacity from zero to maximum flow
- ▶ Choice of elastomers for valves & diaphragms

Application Capability:

| |
|--|
| Maximum flows up to 18.9 lpm (5 gpm) |
| Discharge pressures up to 7 bar (100 psi) |
| Self-priming to 4.5m (15ft) |
| Temperature range up to 50°C (122f) |
| Handles water & viscous liquids up to 1,500 cP |

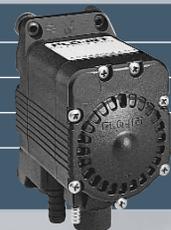


G70C Air Operated Pumps

- ▶ Robust design with durable integral mounting
- ▶ Patented shuttle valve, eliminates stalling when used with dry air
- ▶ Capable of passing solids up to 3.2mm (1/8") diameter easily with large, clog-free check valves
- ▶ Chemical-resistant Kalrez diaphragm
- ▶ Easy to clean & service
- ▶ Leak resistant, made from Viton® Extreme™ O-Ring seals.
- ▶ Ease of installation with all plug-in ports. John Guest® hose barb, NPT and elbow configurations available.
- ▶ Low air consumption compared with other pumps in its class.
- ▶ ATEX: Ex II 2G c IIB TX

Application Capability:

| |
|--|
| Maximum flows up to 18.9 lpm (5 gpm) |
| Discharge pressures up to 6.9 bar (100 psi) |
| Self-priming up to 4.5m (15ft) |
| Ideal for chemical transfer, dispensing and solvent applications |



General Purpose Pumps

The following Jabsco and Totton pumps cover diverse applications in factories, on farms and with contractors, plumbers and utilities workers. Centrifugal pumps are driven by long-life DC motors and are widely used on commercial and public-service vehicles for heating & cooling system recirculation, wash-down and anywhere that a simple, reliable DC pump is required.



Cyclone Circulation Pump

- ◀ 26 gpm (100 lpm) maximum flow
- ◀ High flow and high pressure versions available
- ◀ Continuously rated 3500 hour life motor
- ◀ Robust Stainless Steel body and Anti-clogging design impeller
- ◀ Only one tool needed for all servicing (included with pump)



Gear Puppies

These robust pumps make oil and diesel transfer simple and easy for fixed installation systems. The Junior Gear Puppy can produce 14 lpm (3.5 gpm) and the Gear Puppy can produce up to 25 lpm (6.5 gpm) and handle viscosities up to 150cs.

- ◀ Rugged bronze construction.
- ◀ Inlet filter supplied.
- ◀ Suitable for oils up to 150°C (302° F).
- ◀ Complies with USCG 183.410 and ISO 8846 MARINE (ignition protection).
- ◀ Self priming up to 1m (3ft).
- ◀ 15 minute duty rating.



Magnetic Drive Circulation Pumps

The Jabsco Magnetic Drive Brushless DC Pumps offer exceptional life and reliability. The motors last in excess of 10,000 hours and the seal-less pump heads remove any chance of leaks.

- ◀ Up to 6 gpm (28 lpm) open flow.
- ◀ Rugged and simple design.
- ◀ Versatile, will handle high temperatures and chemicals.
- ◀ Designed for continuous use.



Low-Flow Mag Drive Chemical Pump

- ◀ Compact design
- ◀ Chemically resistant
- ◀ Single stage construction
- ◀ For circulation, recirculation and transfer of chemicals and water
- ◀ Flow rates from 8 to 35 lpm (2 to 8 gpm)
- ◀ Pressures from 2 to 4m (6 to 12 ft) lift



High-Flow Mag Drive Chemical Pump

- ◀ Tough and reliable
- ◀ Single and multi-stage construction
- ◀ For continuous leak-free transfer of acids, alkalis, sterile and chilled liquids
- ◀ Flow rates from 5 to 800 lpm (1 to 176 gpm)
- ◀ Pressures from 6 to 30m (20 to 98 ft) lift

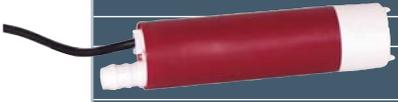
In-Line & Submersible Pumps and Kits

The LVM Series is a whole family of compact, combined submersible and inline pumps and portable pump kits, designed for a whole variety of uses. These models are all capable of pumping hot or cold fresh water, seawater, diesel and anti-freeze. The portable pump kits come complete with lay-flat hose, spray nozzle and battery terminal clips and are ready for use.

| | |
|--|--|
|  | Application Capability: |
| | Flow rate up to 1920 lph (500 gph) |
| | Pressure up to 0.96 bar (14 psi) |
| | Operating temperature: 40°C (104°F) Diesel 80°C (176°F) Water |
| | Maximum pumping head of 9.7m (32ft) |

Congo In-Line & Submersible Pump

- ◀ Pumps fresh water, sea water, anti-freeze and diesel
- ◀ Diesel refueling and transfer with no spillage
- ◀ High pressure offers excellent flow for Washdown and spraying applications
- ◀ Can be used in series for bore hole pumping and testing
- ◀ Continuous duty

| | |
|--|--|
|  | Application Capability: |
| | Flow rate up to 1080 lph (280 gph) |
| | Pressure up to 0.96 bar (14 psi) |
| | Operating temperature: 40°C (104°F) Diesel 80°C (176°F) Water |
| | Maximum pumping head of 9.7m (32ft) |

Amazon In-Line & Submersible Pump

- ◀ Pumps fresh water, sea water, anti-freeze and diesel
- ◀ Used by construction equipment OEM's for safe and clean diesel transfer
- ◀ Robust, slim line with clip-on easily cleaned filter
- ◀ Continuous duty

| | |
|--|--|
|  | Application Capability: |
| | Flow rate up to 760 lph (200 gph) |
| | Pressure up to 0.76 bar (11 psi) |
| | Operating temperature: 40°C (104°F) Diesel 80°C (176°F) Water |
| | Maximum pumping head of 9.7m (32ft) |

Nile In-Line & Submersible Pump

- ◀ Pumps fresh water, sea water and diesel
- ◀ Diesel refueling and transfer with no spillage
- ◀ Agricultural spraying, carboy and drum emptying and transfer
- ◀ Robust, slim line with clip-on easily cleaned filter
- ◀ Continuous duty

| | |
|--|--|
|  | Application Capability: |
| | Flow rate up to 1920 lph (500 gph) |
| | Pressure up to 0.96 bar (14 psi) |
| | Operating temperature: 40°C (104°F) Diesel 80°C (176°F) Water |
| | Maximum pumping head of 9.7m (32ft) |

Congo Portable Pumping Kit

- ◀ Pumps fresh water, sea water and diesel
- ◀ Supplied complete with 4m (12ft) of lay-flat hose, nozzle and battery clips
- ◀ Agricultural spraying, carboy and drum emptying and transfer
- ◀ Robust, slim line with clip-on easily cleaned filter

| | |
|--|--|
|  | Application Capability: |
| | Flow rate up to 1080 lph (280 gph) |
| | Pressure up to 0.96 bar (14 psi) |
| | Operating temperature: 40°C (104°F) Diesel 80°C (176°F) Water |
| | Maximum pumping head of 9.7m (32ft) |

Amazon Portable Pumping Kit

- ◀ Pumps fresh water, sea water and diesel
- ◀ Supplied complete with 4m (12ft) of lay-flat hose, nozzle and battery clips
- ◀ Ideal for agricultural, nursery or garden watering and spraying

The ideal pump for your industry...

This table will help you to identify the products which are most commonly used in your sector. Don't forget to look at the other pages too, as you may find something which meets your specific requirements.

| | page | Rotary Lobe Pumps | Hygienic Flexible Impeller Pumps | Industrial Flexible Impeller Pumps | Bronze Flexible Impeller Pumps | Drum Emptying Pumps | Refuelling Pumps | Diaphragm Pumps | General Purpose Pumps | Submersible Pumps and Kits |
|----------------------------------|------|-------------------|----------------------------------|------------------------------------|--------------------------------|---------------------|------------------|-----------------|-----------------------|----------------------------|
| Chemical suppliers and users | 4 | ✓ | | ✓ | ✓ | ✓ | | ✓ | ✓ | |
| General industry, factory plant | 6 | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Water treatment & utilities | 7 | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Food Processing | 8 | ✓ | ✓ | | | ✓ | | | | |
| Cosmetics & Pharmaceuticals | 9 | ✓ | ✓ | | | ✓ | | | | |
| Dairy, beverage and soft drinks | 10 | ✓ | ✓ | | | ✓ | | ✓ | | |
| Construction Equipment | 12 | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Agricultural equipment | 14 | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| OEM specialist machines | 15 | | | ✓ | ✓ | | | ✓ | ✓ | ✓ |
| Marine engineers & boat builders | | | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |

The Flexible Impeller pump was invented in 1938 by Art Briggs and Jack Streeter who rearranged their initials to form the name Jabsco. They patented the pump type and continued to develop it until their company was sold to ITT in 1966. Jabsco is now part of ITT Industries, the largest pump manufacturer in the world with turnover exceeding 11.7 billion US\$ enabling us to provide products, service, delivery times and competitive prices which set the pump industry benchmark.

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

www.jabsco.com

www.rule-industries.com

www.flojet.com

www.lvm-ltd.com

www.totton-pumps.co.uk

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

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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