

Pumps - General



General Purpose Pump - Siphon Style

Made largely from polyethylene.
Red bellows with flexible outlet tube.
Not to be used with hot, highly acidic or aggressive liquids

Rowe Code	Description	Std. Pack Size
PP1955	Plastic pump for 20L drums	ea
PP1950	Plastic pump for 200L drums	ea



Transfer Release Pump

Each pump suitable for 5L to 210L containers.
Flow rate up to 20L/min depending on viscosity. Only three working parts.
Built-in pressure relief valve. Maximum recommended operating pressure 5psi (34kpa).
Not suitable for use with flammable liquids. Available in three models which cover almost all liquids. Enquire about compatibility information.

Rowe Code	Description	Colour Code	Std. Pack Size
HP2265	Supplied with 4 nitrile seals for oils & chemicals	Red	ea
HP2270	Supplied with 4 EPDM (ethylene propylene) seals for water based liquids & food grade products	Blue	ea
HP2262	Supplied with 4 viton seals for special and aggressive chemicals	Green	ea



Vacuum Pump - Hand Operated

Kartell

Material: High Impact Polystyrene

Light, portable hand operated vacuum pump, attains a vacuum of 625mm Hg(25"). Pumping rate is 15ml per stroke. Built in vacuum release valve. Can be used as pressure pump by transferring release valve cap to vacuum port. Nozzle fits standard 6mm (1/4") I.D. tubing.



Rowe Code	Description	Std. Pack Size
PP1960	Hand operated vacuum pump	ea
PV1700	Hand operated vacuum pump with vacuum gauge	ea

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Pumps - Peristaltic

Peristaltic Pumps

Watson Marlow

Watson Marlow are the world specialists in peristaltic pumping, a field they pioneered. With over one million pumps supplied to industry and science worldwide, Watson Marlow is the largest manufacturer of peristaltic pumps

“The Perfect Pump”

Squeeze a tube filled with fluid between your fingers, slide them along and the fluid moves. The only contact with the fluid is the tube. It is the perfect pumping principle.

“The benefits of peristaltic pumping”

Compared to all other pumps, Watson Marlow peristaltic pumps have these advantages:

- No contamination of the fluid
- No contamination of the pump
- Ideal for shear sensitive and aggressive fluids
- Self-priming, dry running
- No valves, seals or glands
- Automatic check valve action prevents backflow

Many industries have difficult pumping applications where care in handling the process fluid is required. The peristaltic pump is the pump of first choice wherever the process fluid is:

- abrasive, corrosive or aggressive
- sensitive, valuable or sterile
- delicate and must not be degraded

“Customised for your process”

Watson Marlow produces a wider range of peristaltic pumps than any other company. This means they can meet virtually any capacity and control requirement, using options of fixed or variable speed, digital, analogue or manual control and single or multi-channel flows.



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Pumps - Peristaltic



Series	Flow Rate	Tube Range ID (Wall thickness)
100	Single channel Low flow pumps mL to mL/min Fixed or variable speed	0.5mm to 4.8mm (1.6mm)
200	Near pulseless mL to mL/min Multi-channel pumps up to 32 channels	0.13mm to 2.79mm (0.8mm)
300	Single or multi mL to L/min Channel pumps with manual remote or dispensing control	0.5mm to 8.0mm (1.6mm, 2.4mm)
500	Microprocessor controlled mL to L/min and IP55 industrial pumps with manual, auto & digital controls	0.5mm to 9.6mm (1.6mm, 2.4mm)
600	IP55 mid-flow cased and industrial 0.03 to 37.4L/min pumps. Fixed or variable speed	6.4mm to 16.0mm (3.2mm, 4.0mm)
700	IP55 industrial pumps with mL to L/min manual or auto control, single or twin channel L to 1003L/min	9.6mm to 25.4mm (4.8mm)
800	High flow hygiene pumps with full CIP and SIP capability	25mm to 40mm (9mm - 13mm)

"Choosing the right tube"

The tubing is as important as the pump because it is the restitution of the tube that draws in the fluid. The tube's restitution creates suction lift, its strength resists pressure, its flex resistance determines pumping life, its bore decides the flow rate, and its wall thickness controls pumping efficiency.

The best way to select a tube is to first decide which materials are chemically suitable and then chose the one which best meets the physical demands of the application.

- For maximum tube life, use a large bore tube at low speed
- For maximum flow rate use the largest tube at maximum speed
- For maximum accuracy, use a small bore tube at maximum speed

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Pumps - Peristaltic

Tubing Selection guide

Bioprene	Choose Bioprene for the longest tube life to meet USP and NFS Class VI requirements. Bioprene also complies with FDA 21 CFR 177.260 and meets USDA standards for food handling. Beige. Autoclavable.
Marprene	Watson-Marlow's exclusive thermoplastic which has superseded Neoprene, Butyl and silicone in many applications. Greatly enhanced tube life. Marprene meets USDA standards for food handling and complies with FDA 21 CFR 177.260. Recommended for all applications where chemically suitable. Beige. Autoclavable.
Silicone	The standard laboratory tubing most used for bore sizes up to 9.6mm (3/8"). Silicone tubing meets USP and NFS Class VI standards. Translucent. Food and medical quality. Autoclavable.
Neoprene	Until the introduction of Marprene, the standard industrial tubing and generally best for abrasive slurries and for pumping against sustained pressure. Most used for bore sizes over 12.7mm (1/2"). Black. Food quality.
Butyl	Sometimes useful for its chemical resistance where Neoprene is unsuitable. Black. Not food quality.
Tygon	Polyvinylchloride thermoplastic. Good pressure performance. Glass clear. Food quality.
Fluorel	Watson-Marlow's Fluorel® has greatly extended life (five to twenty-five times longer than previously available). Fluorel is expensive, but sometimes the only chemically suitable material. Black. Not food quality.
Sta-Pure	Operates at pressures up to 7 bar, lasts 18 times longer than silicone tubing and virtually eliminates spallation. USP Class VI approved and non-toxic. Pure white and autoclavable.



See Tubing on page

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Pumps - Vacuum

Pump Selection Chart
For Common Lab Applications

Application	Welch Vacuum Pumps & Systems	Flow Rate x Vacuum	Unit Photo	Model
Rotovap Volatiles, Low B.P. B.P. <100 C Samples 0-5 Liter 	"Rotovap System" DRYFAST™ System with regulator, gauge, condensate jars, self-cleaning/ auto-purge	34 L/min. x 9 Torr (12 mbar)		202501
Rotovap DMF, Toluene, other non-volatiles Samples 0-5 Liter 	"High Boiler System" DRYFAST ULTRA™ System & Pump	32 L/min. x 2 Torr (2.7 mbar) 32 L/min. x 2 Torr (2.7 mbar)		202701 2031B-01
Concentrator Samples <2ml x 24, DNA Profiling 	"Concentrator Pump" DRYFAST ULTRA™ Pump DRYFAST ULTRA SYSTEM Compatible with: SpeedVac™ & CentriVac™	32 L/min. x 2 Torr (2.7 mbar) 32 L/min. x 2 Torr (2.7 mbar)		2031B-01 202601
Vacuum Manifold Schlenk Line 	"Vacuum Manifold Pump" DUOSEAL™ & CHEMSTAR™ Pumps GEM™ System	25 L/min. <1 millitorr (1.3x10 ⁻³ mbar) 31 L/min. 100 millitorr (0.13 mbar)		1400B-01 or 1400N-01 8890A-70
Freeze Dryer 	"Freeze Dryer Pump" Direct Drive pump w/integral oil filtration system CHEMSTAR™ Low RPM Pump	173 L/min. 160 L/min.		8917A-80 1402N-01
Filtration 	"Filtration Pump" Chemical Duty Standard Duty	22 L/min. 22 L/min.		2012B-01 2522B-01
Aspiration Cell Harvestor Plate Washer 	"Aspiration System" Standard Duty Chemical Duty	88 L/min. x 27.6 in. Hg (80 mbar) 64 L/min. 26.7 in. Hg (70 mbar)		2567B-50 2017B-01
Cell Culture Aspiration 	"Cell Culture Station" With gauge, regulator, 2000 ml autoclaveable trap with liquid blockade system	34 L/min. x 27.2 in. Hg (93 mbar)		2515B-75
Vacuum Oven Drying Degassing 	"Vacuum Drying Pump" Standard Duty Dry Direct-Drive DUOSEAL	100 L/min. 173 L/min. 160 L/min.		2581B-50 8917A 1402B-01
Gel Dryer 	"GELMASTER™ System" Complete Gel Drying Vacuum System with hose, valve	>50 L/min. of Vapor @ 28 in. Hg (66 mbar)		142601

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Pumps - Vacuum Filtration Manifold & Flask

Economical Dry Pumps For Aqueous Solutions



"Did you know that the most common reason filtration pumps fail is because of liquid ingestion into the pump?"

- 1 Water trap protects against accidental ingestion
- 2 Vacuum regulator and gauge adjusts and monitors vacuum level
- 3 Muffler quiets pump

Standard Duty Pumps

Standard duty, oil-free pumps provide continuous, reliable vacuum your filtration application requires. Added accessories simplify use, lower noise level, and extend service life. All wetted parts are treated for corrosion protection from moisture. Use cat. nos. 2522B-01, 2534B-01 and 2546B-01 (115V, 60Hz); 2522C-02, 2534C-02 and 2546C-02 (230V, 50Hz) for pressure filtration up to 100 psig. Pumps are compact, lightweight, and easy to use. Note: May be used with buffer solutions, but not recommended for use with acidic, basic or organic solutions.

Cat. No.	Description*
2522B-01	22 L/min, 25.6"Hg, 115V, 60Hz, 1 Ph with N. American 115V plug
2522C-02	18 L/min, 133 mbar, 230V, 50Hz, 1 Ph with IEC connector and detachable Schuko line cord, CE
2567B-50	120 L/min, 27.6"Hg, 115V, 60Hz, 1 Ph with N. American 115V plug
2567C-50	83 L/min, 80 mbar, 230V, 50Hz, 1 Ph with IEC connector and detachable Schuko line cord, CE

Chemically Resistant Dry Pumps For Harsh Chemicals



- 1 PTFE construction resists chemical attack
- 2 Portable for lab to lab usage
- 3 Steady, reliable vacuum

Chemical Duty Pumps

Chemical duty, diaphragm pumps are the ideal oil-free solution when filtering acidic, basic or organic materials. Wetted parts are made of fluorinated plastic (PTFE) which can withstand the use of aggressive chemicals. A small footprint, carrying handle, and attached line cord make these pumps easy to move and easy to use.

Cat. No.	Description*
2010B-01	12.7 L/min, 25.5"Hg, 115V, 60Hz, 1 Ph with N. American 115V plug
2010C-02	10.6 L/min, 146 mbar, 230V, 50Hz, 1 Ph with IEC connector and detachable Schuko line cord, CE
2015B-01	50 L/min, 26.7"Hg, 115V, 60Hz, 1 Ph with N. American 115V plug
2015C-02	42 L/min, 106 mbar, 230V, 50Hz, 1 Ph with IEC connector and detachable Schuko line cord, CE

Pump Selection Chart (115V, 60Hz)*		
# of Funnels	Standard Duty	Chemical Duty
1	2522B-01	2010B-01
1-2	2522B-01	2012B-01
1-4	2534B-01	2015B-01
1-6	2546B-01	2015B-01
6 Funnel Manifolds	2567B-50	2017B-01
Multi Tabletop	2585B-50	2017B-01

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Pumps - Vacuum

Diaphragm Type



The Dynavac heavy duty oil-free diaphragm vacuum pumps and compressors offer reliable, trouble free and rugged performance - all at a low cost.

The pump mechanism remains free from corrosive gases and moisture which means low maintenance and long term dependability. They are especially suitable for rugged industrial applications.

The vacuum pumps and compressors are environmentally friendly - they are absolutely oil-free and therefore deliver 100% odourless, contaminant-free air.

Rowe Code	Description
IP1880	Vacuum pump, OD1
IP1882	Vacuum Pump, OD1/2 (parallel)

Piston Type



If you want an oil-free piston compressor or vacuum pump which is tough, reliable and has a long life, then Dynavac offers you the OP Series.

This standard range has proven reliability. Conventional pistons have wrist pins, rings and two-piece connecting rods, but the Dynavac OP Series features an integral one-piece piston and connecting rod. This means you can be assured of virtually no maintenance and year in, year out dependability.

And you don't have to worry about fumes - the oil free piston compressors and vacuum pumps deliver 100% odourless, contaminant-free air. Light weight, they are easily transportable.

Rowe Code	Description
IP1862	Vacuum Pump, OP1
IP1863	Vacuum Pump, OP4
IP1883	Vacuum Pump, OP7
IP1865	Vacuum Pump, OP14

Pumps - Vacuum

Vacuum Pumps KNF Neuberger

Whether for use with neutral or aggressive gases or liquids, the KNF Neuberger range provides the right type of pump. KNF compressors and vacuum pumps carry out transferring, compressing and evacuating tasks, KNF liquid pumps take on transferring and metering jobs.

Diaphragm Compressors and Vacuum Pumps for Gases and Vapours

Depending on the type of pump, the components in contact with media are corrosion-resistant. Transfer, evacuation and compression of air and neutral, slightly aggressive and slightly corrosive gases and vapours.

Performance Range:

Micro Diaphragm Gas Sampling Pumps

- Flow rate: up to 4 L/min (at atm. pressure)
- Ultimate vacuum: down to 380 mbar abs
- Maximum pressure: up to 1 bar g.

Diaphragm Compressors and Vacuum Pumps

- Flow rate: up to 300 L/min (at atm. pressure)
- Ultimate vacuum: down to 0.5mbar abs
- Maximum pressure: up to 12 bar g.



Water Jet Vacuum Pumps

Kartell

Material: Polypropylene

This pump will work on pressures up to 10kg/cm². Built in non-return valve to eliminate back flow. Useful for sucking to waste any spilt chemicals as well as for filter work. Easily dismantled for cleaning. Autoclavable. Evacuating nozzle tapers from 8 to 14 mm. The connector PW2900 can be pushed onto evacuating tubing to act as a quick release from the pump.

Rowe Code	Description	Std. Pack Size
PW2850	Water Jet Vacuum Pump	ea
PW2900	Water Jet Pump Connectors	5

