

## SOLVING PUMPING PROBLEMS

The world's fastest growing pump type



100

**NEW**

Small, simple and precise pumps for biopharm and science. Manual or auto control, single or multi-channel.

- Flows up to 190ml/min from new 114 flip-top pumphead
- Exceptional speed control
- Minimal key presses, intuitive operation

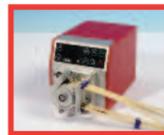


2 bar

120U/DV



120S/DM3



120F/R



120U/D1



# Watson-Marlow pumps bring you

- Accurate and repeatable flow rates
- Contamination free pumping - ideal for shear-sensitive fluids, viscous sludges or slurries, and aggressive acids and caustics
- Easy to install, operate and maintain
- Virtually maintenance-free – no expensive seals, valves, diaphragms or rotors to leak, clog or corrode
- Designed for continuous duty - 24 hours/7 days
- Pumps act as their own check-valves
- Self-priming up to 9 metres (30 feet) and dry running
- Reversible flow direction

200

Near pulseless, multi-channel cassette pumps with up to 32 channels.

- Flow rates from 0.6µl/min to 22ml/min per channel
- Precise flow control for each individual channel
- Manual, auto and digital TTL control



2 bar

205S/CA



205U/CA



300

Single or multi-channel benchtop pumps with manual, remote, analogue, RS232 control and accurate dispensing.

- Flow rates from 2µl/min to 3 litre/min
- High visibility digital display with membrane keypad
- Single channel or up to ten separate channels
- Zero maintenance brushless DC motors
- New 323Dz general purpose dispensing pump



2 bar

323E, S and U/D



323Du/D



323Dz/D



400

Ultra-compact scientific pumps for low flow single or multi-channel applications.

- Flow rates from 1µl to 610 ml/min
- Precision multi-roller pumpheads for accurate flows
- Digital and analogue process signal control



2 bar

405U/R1 and 405U/L



405U/R2



405U/L



500

Superb range of IP31 and IP66 rated pumps for science and industry as well as fixed and variable speed close-coupled pumps.

- Flow rates from 0.4µl/min to 4.4 litre/min
- Manual, analogue and digital RS232/RS485 control
- ATEX rated, three phase and pneumatic drives
- LoadSure tube elements with quick-release Tri-clamp or industrial connectors for error free tube loading
- Dosing and dispensing pump for ±0.5% accuracy



7 bar

520S, U and Du/R



520 sanitary LoadSure



520 industrial LoadSure



520U/R2



521F/R2



521DF/RLA



520D/VL



600

IP66 mid-flow process pumps with full clean-in-place and steam-in-place capability.

- Flow rates from 0.001ml/min to 18.3 litre/min
- Manual, auto and digital control
- Close coupled pumps for the three phase operation including pneumatic and ATEX options
- One minute maintenance LoadSure elements



4 bar

620U/R



620 sanitary LoadSure



620 industrial LoadSure



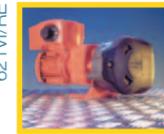
620D/L



621F/R



621V/RE



621P/RE



700

**NEW** Industrial cased and baseplate mounted pumps for use with continuous tubing or new LoadSure elements. Three phase motors, ATEX rated drives or pneumatic.

- Flow rates from 0.12 litre/min to 4,000 litre/ hour
- Single or twin channel operation
- Driven roller pumphead extends tube life
- LoadSure elements ensure correct tube loading every time
- Fixed or variable speed drives



2 bar

720Du/R, 720U/R and 720S/R



720Du/RE, 720U/RE and 720S/RE



701F/R



701PB/R



701D/RE



800

High-flow hygienic pumping using USP Class VI Bioprene tubing or STA-PURE tubing.

- Flow rates 2 litre/min to 8,000 litre/hour
- Full Clean-In-Place and Steam-In-Place capability
- Extensive motor/gearbox control options



3.5 bar

825



840



SPX

High flow high-pressure industrial pumps with unique patented direct coupled design. Duplex and CIP models available.

- Flow rates to 0.3 litre/min 80 cubic metre/hour
- Reinforced hoses enable pressures up to 16 bar
- Fixed and mechanically or electronically variable speed drives including ATEX versions
- DuCoNite and PetroProof pumps for tough chemical duties including hydrocarbons



16 bar

SPX10 and 15



SPX25 and 32



SPX DuCoNite



SPX PetroProof



SPX40 - SPX100



SPX DUPLEX



OEM

A wide range of instrument quality and industrial OEM pumpheads for fitting to users own drives, or with faceplate-mounted motor options.

- Flow rates from 0.01µl/min to 33 litre/min
- Single and multi-channel pumpheads
- Synchronous, DC, induction, shaded-pole or stepper motors
- Optional Eurocard pcb enables full controllability



2 bar

100



NEW 114



300



400



500



520R



600



700



Flexicon

Tabletop, semi-automatic, fully automatic and OEM aseptic filling solutions including bottle handling, stoppering and crimp capping.

- 0.5ml to 5 litre/minute fills
- Handle up to 75 vials/minute
- 0.5% fill accuracy
- Easy product changeover and no cleaning validation



PF6



FF20



FC10/FC32



FPC50



FMB210



MasoSine

No shear, high suction lift sinusoidal pumps. Pulsation-free and extremely low maintenance.

- Pressures up to 15 bar
- Flow rates to 90 cubic metre/hr
- Handle high viscosity products without cavitation
- 3A certified and CIPable



15 bar

SPS



EcoSine



MR



MasoSine custom solution



Tubing Hoses

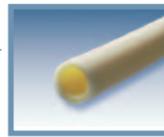
Extensive range of tubing ensures chemical compatibility. USP Class VI and FDA approvals. Precision machined, re-reinforced hoses provide flow stability and excellent suction performance.

- Twelve tubing materials in bore sizes 0.13mm to 25.4mm
- Autoclavable Marprene, STA-PURE PCS, STA-PURE PFL and Pumpsil Silicone (platinum-cured) and Style 400
- Four hose materials including Natural Rubber, Nitrile NBR, Hypalon and EPDM from 10mm to 100mm

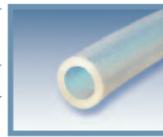
Marprene



Bioprene



Pumpsil (silicone)



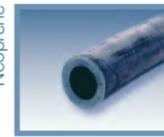
STA-PURE Series PCS



PureWeld



Neoprene



Style 400



STA-PURE Series PFL

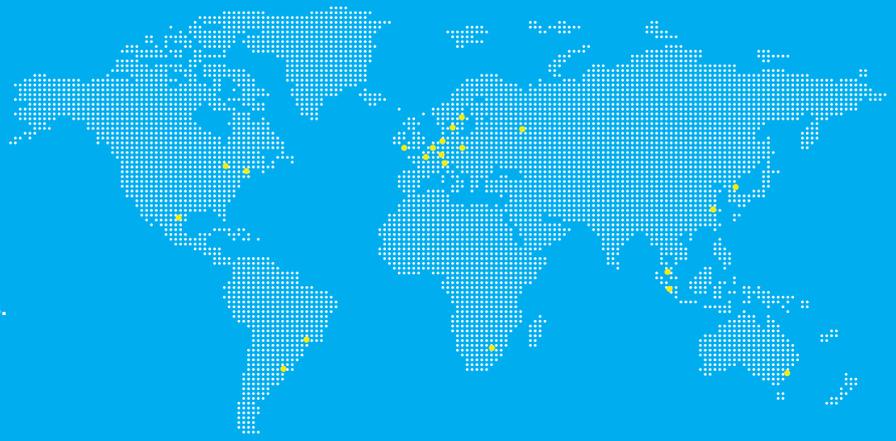


Hoses



Watson-Marlow Pumps Group has five world-class factories supported by direct sales operations in 20 countries and distributors in more than 50 countries. For contact details visit our website:

**[www.wmpg.com](http://www.wmpg.com)**



**Watson-Marlow   Bredel   Alitea   Flexicon   MasoSine**



### Watson-Marlow online

Our engineers around the world can help you choose the perfect pump and tubing for your needs.

More information? Our brochures are on our website - [www.wmpg.com](http://www.wmpg.com)

*Watson-Marlow...Innovation in Full Flow*

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