

SOLVING PUMPING PROBLEMS

The world's fastest growing pump type



Watson-Marlow Bredel 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

100

Low flow single channel pumps. Fixed and manual/auto control variable speed.

- Flow rates from 1µl/min to 53ml/min
- Rapid and simple tube loading
- Manual, auto and digital TTL control



101F/R



101U/R



2 bar

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



205S/CA



205U/CA



2 bar

300

NEW

Compact single or multi-channel laboratory pumps with manual, remote, analogue, RS232 or dispensing control.

- Flow rates from 2µl/min to 2200ml/min
- Five modular pumpheads for single or multi-channel flows
- Manual, TTL, RS232 and 4-20mA or 0-10V analogue auto-control
- High visibility digital display with keypad



323E/D



323S/RL



2 bar

400

Ultra compact scientific pumps with up to four channels.

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



401U/D1



401U/DM3



2 bar

500

Our core range of IP31 and industrial washdown process pumps.

- Flow rates from 10µl/min to 4.4 litre/min
- Manual, analogue and digital process control
- Close coupled pumps for the three phase operation including pneumatic and Exd option
- Extensive pumphead options



505S/RL



505U/RL



2 bar

600

IP55 mid-flow process pumps with full clean-in-place and steam-in-place capability.

- Flow rates from 50ml/min to 18.3 litre/min
- Manual, analogue and digital process control
- Close coupled pumps for the three phase operation including pneumatic and Exd options
- One minute maintenance LoadSure elements



623S/R



624S/RE



4 bar

700

IP55 industrial pumps with manual or auto control, single or twin channel.

- Flow rates from 1.6 litre/min to 2000 litre/hour per channel
- Driven roller pumphead extends tube life
- Baseplate pumps for three phase operation including pneumatic and Exd options



704S/R



704U/R



2 bar

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



825



840



7 bar

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 metres/hour
- Reinforced hoses enable pressures up to 16 bar
- Fixed and mechanically or electronically variable speed drives including Exd versions



SP10 and 15



SP25 and 32



16 bar

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



100



300



2 bar

Tubing Hoses

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

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

Marprene



Bioprene



- Designed for continuous duty - 24 hours/7 days
- Self-priming up to 9 metres (30 feet) and dry running
- Pumps act as their own checkvalves
- Reversible flow direction

Code descriptions eg: 101U/R = Manual/auto control variable speed with single channel pumphead

Drive

F	Fixed speed
S	Manual control variable speed
U	Manual/auto control variable speed
Du	Digital/analogue control variable speed
Dz	Dispenser
Di	Precision dispenser, RS232 control
Ti	Integral inverter controlled
FX	Fixed speed dual drive
DF	Exd fixed speed
P	Pneumatic
DVB	Exd, mechanical variable speed
PB	Pneumatic, baseplate mounted

Pumphead

R	Single channel pumphead
RL	Single channel, two roller pumphead with lockable guard
RE	Mid flow single channel pumphead for LoadSure elements
CA	High precision multi-channel cassette pumphead
D1	Single channel, four roller pumphead
D	Single channel, three or four roller, 'flip-top' pumphead
DM2-3	Three channel pumphead for three bridge manifold tubing
R1	Single channel, four roller pumphead
L2	Two channel, four roller pumphead
L	Precision 'low pulse' pumphead
VM2-4	Precision low flow multi-channel pumphead for two bridge manifold tubing
CIP	Retractable rollers/shoes



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The information in this brochure is intended for general sizing. You should always seek the advice of a Watson-Marlow Breidel sales engineer or the technical support department when matching a pump to your requirements.

Full range of literature includes

Capabilities brochure

Encompasses what has made Watson-Marlow Breidel so successful in solving fluid handling problems worldwide.



New product launch literature

STA-PURE
 620 LoadSure technology
 400 series



Industry sector brochures

Outlining benefits of peristaltic pumping which are important to these industries, with application examples and customer testimonials.

- Food and Beverage
- Brewing
- Water and Waste
- Pharmaceutical and Biotechnology
- Print and Packaging
- Chemical
- Ceramics
- Pulp and Paper
- Paints and Pigments
- Engineering



Every peristaltic pump for science

A specialised range of products dedicated to science and laboratories



Technical binders

We have three types of technical data binders which include products specifically tailored to your industry.

- Scientific
- Industrial
- Combined



OEM pumps

Specifications and engineering detail for customers who are building pumps into their equipment

