

PERISTALTIC PUMPS

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

100

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

- Flow rates from 0.0002 GPD to 20.2 GPD
- Rapid and simple tube loading
- Manual, auto and digital TTL control



30 psi

101F/R



101U/R



200

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

- Flow rates from 0.0001 GPD to 8.38 GPD per channel
- Precise flow control for each individual channel
- Manual, auto and digital TTL control



30 psi

205S/CA



205U/CA



300

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

- Flow rates from 0.001 GPH to 31.7 GPH
- High visibility digital display with membrane keypad
- Single channel or up to ten separate channels
- Zero maintenance brushless DC motors



30 psi

323E/D



323S/D



400

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

- Flow rates from 0.0001 GPH to 9.67 GPH
- Precision multi-roller pumpheads for accurate flows
- Configured with either single or multi channel pumphead
- Digital and analog process signal control



30 psi

401U/D1



401U/DM3



500

Superb range of NEMA 2 and NEMA 4X rated pumps for science and industry as well as fixed and variable speed close-coupled pumps.

- Flow rates from 0.00006 GPH to 76 GPH
- Manual, analog and digital RS232/RS485 control
- Explosion Proof rated, 3 phase and pneumatic drives
- Seven pumphead and including low-pulse high accuracy 505L element pumphead
- Dosing and dispensing pump for $\pm 0.5\%$ accuracy



100 psi

520S/R



520U/R



600

NEMA 4X mid-flow process pumps with full clean-in-place and steam-in-place capability.

- Flow rates from 0.0003 GPM to 4.8 GPM
- Manual, auto and digital control
- Close coupled pumps for the three phase operation including pneumatic and Explosion Proof options
- One minute maintenance LoadSure® elements



60 psi

620SN/RE



620UN/RE



700

Industrial cased and baseplate mounted pumps for use with continuous tubing or new LoadSure® elements. 3 phase motors, explosion proof rated drives or pneumatic.

- Flow rates from 0.001 GPM to 17.6 GPM
- Single or twin channel operation
- Driven roller pumphead extends tube life
- LoadSure® elements ensure correct tube loading
- Fixed or variable speed drives



30 psi

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



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



800

High-flow hygienic pumping using USP Class VI Bioprene tubing or Sta-Pure® tubing.

- Flow rates up to 35 GPM
- Full Clean-In-Place and Steam-In-Place capability
- Extensive motor/gearbox control options



100 psi

825 and 840



SPX

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

- Flow rates from 0.01 GPM to 400 GPM
- Reinforced hoses enable pressures up to 232 psi
- Fixed and mechanically or electronically variable speed drives including explosion proof versions



232 psi

SPX10 and 15



SPX25 and 32



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 0.01 μ l/min to 300 GPM
- Single and multi-channel pumpheads
- Synchronous, DC, induction, shaded-pole or stepper motors
- Optional Eurocard pcb enables full controllability



30 psi

100



300



Tubing Hoses

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

- Twelve tubing materials in bore sizes 0.13mm to 25.4mm
- Four hose materials including Natural Rubber, Nitrile NBR, Hypalon and EPDM from 10mm to 100mm

Marprene®



Bioprene®



- 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 30 feet and dry running
- 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	Auto/Manual control variable speed
Du	Digital/Auto/Manual control variable speed
Dz	Dispensing/Auto/Manual control
Di	Dispensing/Digital/Auto/Manual control
VI	Varmeca controlled
FD	Fixed speed duplex drive
P	Pneumatic
PB	Pneumatic, baseplate mounted
SN/UN/DuN (N)	denotes NEMA 4X protection

Pumphead

R	Single channel pumphead for continuous tubing - 1.6mm wt
R2	Single channel pumphead for 2.4mm wall continuous tubing
RE	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



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The information contained in this document is believed to be correct, but Watson-Marlow Bredel accepts no liability for any errors it contains and reserves the right to alter specifications without notice.

Typical flow rate on all graphs printed varies with tube material, discharge pressure, suction and viscosity.

WARNING These products are not designed for use in and should not be used for, patient connected applications.

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Watson-Marlow Bredel ...

With 60% fewer roller passes than our competitors, our pumps deliver 2 1/2 times the tube life.

So the best pump really does cost less. Call us for the proof. It all adds up to -

Value for life

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

Industry overview catalog

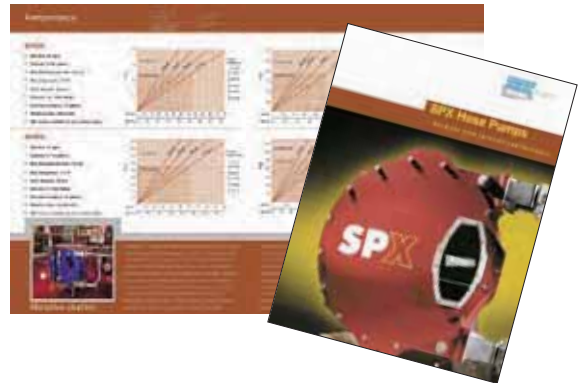
Get a snap shot of the cased drive pumps and their capabilities for different markets

- Sanitary Process Pumps Catalog
- Heavy Duty Process Pumps Catalog



SPX brochure

Offers a more in depth look at our high flow, high pressure SPX Hose Pumps.



Industry sector brochures

Whatever your industry, find out how Watson-Marlow Bredel can improve your process.

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



OEM pumps

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



Call 1-800-282-8823 for further information on all of our pumps and tubing ranges including technical data sheets or log on to our web site: www.watson-marlow.com to view details on our complete peristaltic pump range

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