

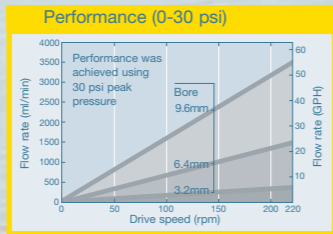


520REL pumphead for up to 30 psi pressure

Typical applications include:

- Spray head feed of granulating fluid to mixer for tablets
- Dispensing of perfume into vials

Elements available in: Bioprene® TL, Pumpsil®, Chem-Sure® and Sta-Pure®

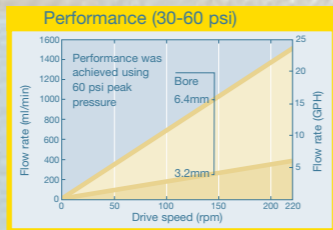


520REM pumphead for up to 60 psi pressure

Typical applications include:

- Filtration
- Chromatography

Elements available in: Bioprene® TM and Sta-Pure®

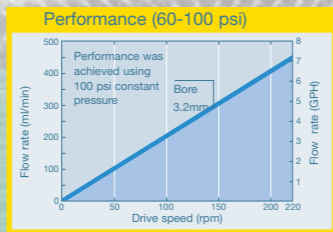


520REH pumphead for up to 100 psi pressure

Typical applications include:

- High-pressure sanitizing of food packaging with hydrogen peroxide

Elements available in: Bioprene® TH and Sta-Pure®



NEMA 2

520S, 520U and 520Du cased drives

- Manual speed control with flow calibration
- 2200:1 speed control for 0.1% speed accuracy
- Single or dual analog inputs and analog output
- 24V logic remote control
- RS232 serial communication



NEMA 4X

520SN, 520UN and 520DuN cased drives

The same function plus

- NEMA 4X high pressure washdown enclosure
- Volt-free relay output
- Large connector terminals for easy wiring, every function clearly marked
- RS485 serial communication



520Di Dispensing cased pumps

- Accurate dispensing to ±0.5%
- Calibration by weight or volume
- Stores 50 dispensing programs with file name
- 3500:1 speed control for 0.1% speed accuracy
- Output batch records for cGMP
- NEMA 4X: RS485 control
- NEMA 2: RS232 control

CE cETD US
NEMA 4X NEMA 2



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.

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

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STA-PURE and CHEM-SURE are trademarks of WL Core & Associates Inc.

Call 1-800-282-8823 for further information on the 520 pump range including technical data sheets.

Or log on to our web site: www.watson-marlow.com to view details of our complete peristaltic pump range.

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AUKETT BROCKLIS GUY



520 PUMPS - SANITARY

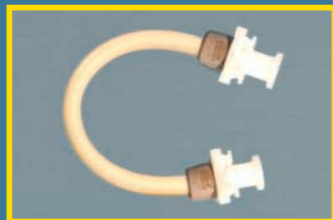
NEW High Pressure LoadSure® Validated Pumping



LoadSure® elements offer reliable pumping

LoadSure® elements are available in three sizes and four materials, with a range of performance characteristics for many applications – but all share features designed to work at their best in demanding sanitary processes.

World-standard 3/4in sanitary connectors in PVDF complete an assembly which welcomes autoclaving and steam-in-place procedures for cGMP. There are no metallic components, cutting the risk of chloride attack.



Our finest, most capable and most versatile pumps ever.

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The new 520 LoadSure® 100 psi sanitary pump

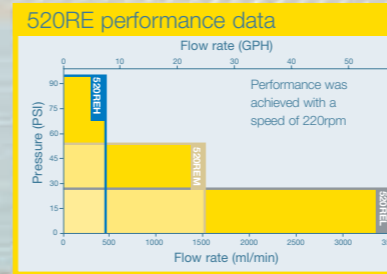
Sanitary process users now have the functionality of the best-selling 520 pumps with pressure capability. The new 520 LoadSure® pump offers flows of 3,500 ml/min at 30 psi to 450 ml/min at 100 psi. Reliable, accurate and easy to use, the perfect sanitary pump covers a wide range of applications:

- Low shear feed for ultrafiltration and diafiltration
- Chromatography
- Transfer of viscous media, creams and gels
- High-pressure spray coating of tablets and cereals

One-minute maintenance:



Three pressure ranges for sanitary applications, with precise metering and accurate dispensing



Assured validation

Validating a sanitary process is made easy with the 520 LoadSure® elements. All element wetted parts are USP Class VI and ISO 10993 certified with a laser-etched lot number. 520 LoadSure® elements are supplied with a certificate of conformity and a validation pack is available upon request.

- USP Class VI validated
- Laser-etched
- Certificate of conformity

100 psi with all the advantages

Watson-Marlow Bredel peristaltic pumps with LoadSure® elements are simple. With only one wetted component, the 520 LoadSure® pump is easy to install and operate; with no impellers, vanes or valves, it handles delicate fluids without damage or degradation – even fragile cell cultures. A new, autoclavable, sterile element eliminates cross-contamination, which can occur with other pump types. Downtime is minimal and running costs are low, keeping productivity high.

Pumphead quality

The 520RE pumphead is constructed of PPS (polyphenylene sulphide), a high-performance engineering plastic resistant to chemical attack. Spring-loaded roller arms and large, low-friction 316 stainless steel rollers provide gentle, high-flow pumping for shear-sensitive fluids. The impact-resistant guard is sealed to contain spillages, while the optional float-switch leak detector guarantees process security.

- Safe
- Low-shear
- Controlled



Repeatable performance Simplicity LaserTraceability® Secure connection

Color-coded LoadSure® elements fit into position for simple, **error-free tube loading**; optimum performance and tube life every time.

Using the patented LoadSure® D-connectors and easy-grip clutched rotor, the element can be changed in under one minute: **simplicity itself, no special skills required.**

Laser-etched element lot number allows tracing of all wetted parts back to raw materials: vital for **sanitary process validation.**

Sanitary connectors in PVDF link the pump to your process securely: **world-standard connectivity** for universal application.



Why Peristaltics?

Compared with other positive displacement pumps, peristaltic pumps win on every count. They handle difficult fluids, abrasives and suspended solids with ease, and provide precision dosing and metering. Cleaning and maintenance are quick and easy. They self-prime, can run dry and have no valves or seals to leak, corrode or clog, and the duty fluid is totally contained within the tube – so no contamination. That's why Watson-Marlow Bredel pumps outperform piston, progressive cavity, lobe and gear pumps.

We engineer our winning performance – we don't just turn up the speed. 60% fewer occlusions than our competitors for the same flow means 2½ times the tube life.

- Pumps, pumpheads and tubing last longer.
- There's less downtime, fewer failures – and less maintenance.
- In the unlikely event of a problem, next-day delivery keeps your production rolling.
- Our products are recognized for quality, reliability and performance, backed by a three-year guarantee.

So the best pump really does cost less. Call us for the proof.

It all adds up to – *Value for life*

We have what industry wants



Pharmaceuticals and Biotechnology

Low shear with zero contamination for aseptic and sterile environments. Accurate dispensing of expensive products, extending validation periods.



Food and beverage

Accurate metering of additives and flavors assuring consistent product quality.



Cosmetics

Transfer metering and dispensing of viscous fluids: versatility.