

## FOOD and BEVERAGE

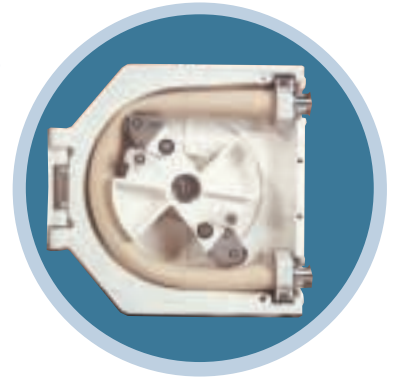
Improve your Process



# New levels of plant productivity ...

Every week pump failures are losing food manufacturers thousands of pounds in rejected product and downtime – unacceptable costs in an increasingly competitive food market.

Food products, such as dairy, bakery, cereals, beverages and confectionery, demand pumps that meet today's hygiene standards and are able to handle products with care. Peristaltic pumps from Watson-Marlow Bredel guarantee these performance standards and create significant cost savings.



- **Superior hygienic performance**
- **Improved finished product quality**
- **Greater accuracy and repeatability**
- **Reduced downtime and lower maintenance costs**

## ... and superior finished product quality ...

### **Easily cleaned**

CIP and SIP are now essential procedures in the manufacture of many foods, and hygiene standards have never been under greater scrutiny. Watson-Marlow Bredel pumps enable you to clean in-line at full velocity, without the intrusion of the bypass required by most other positive displacement pumps. Dismantling and further cleaning are not required giving significant operational advantages and cost savings.

### **Hygienic**

There is no risk of bacterial growth or even product clogging as the fluid is contained totally within the tube. There are no dead spots. The pumping action ensures that the tube is fully swept and the suction and delivery orientation enables the pump to self drain. No other pump is able to meet this level of hygienic performance.

### **Low Shear**

The presentation of finished goods is critical for most products, and transfer of the product must be made without degrading consistency or appearance. The low-shear action and straight-through flow of the Watson-Marlow Bredel peristaltic ensures product quality. Other pumps can damage the product by using impellers, vanes, lobes or valves.

### **Accurate**

Flavourings, colourings and additives demand accurate and repeatable metering to ensure quality. Watson-Marlow Bredel pumps give true positive displacement with no siphoning or slip providing an accuracy of up to  $\pm 0.5\%$  regardless of fluid viscosity changes. They are the market's most accurate dosing and metering pumps.

### **Reliable**

Pump failure during production cannot be tolerated, with tight cost control and deadlines to meet. Watson-Marlow Bredel pumps have no seals, valves, diaphragms, glands, immersed rotors, stators or pistons to leak, clog, corrode and replace. They are virtually maintenance free. Self priming and dry running capabilities further help to reduce dramatically spares inventory and maintenance.



A major "ready meals" producer pumps cooked food portions direct from the cookers on to transfer trays for delivery to the packaging area. The original lobe pumps did not fully empty the cookers and pipe work and hence wasted product. The lobe pump was also difficult and time consuming to clean.

# ... using a pump inherently maintenance free ...

Watson-Marlow Bredel pumps are designed for the food industry. The low shear peristaltic pump action is created by compressing the tube element between rotating rollers or shoes. In between each pass of a roller, the element recovers to create a vacuum and draw in fluid. This means that the pump is self priming and dry running. This simple dynamic effect requires no seals or valves and the fluid is totally contained within the tube, separated from the pump. No other positive displacement pump offers this unique separation of pump and fluid. Watson-Marlow Bredel pumps clearly outperform other pump types, such as lobe or diaphragm pumps for example, which rely on their mechanism including seals and valves to work within your product.

The tube element provides a fully swept and self draining pumping chamber with material selection to suit your product, complying with USDA food handling plus FDA, USP and NSF Class VI standards. Tube connectors include Tri-clamp, DIN, RJT, IDF-ISS plus others on request.



# ... and open expert consultation ...

For perfect results, experienced selection and installation advice is essential. Our engineers will carry out a full consultation to ensure that we know your needs accurately, and are able to select a suitable pump with clear benefits and payback. These quotations were given to an independent marketing organisation by customers who are delighted to have found Watson-Marlow Bredel.

## Operations Manager

*"I was impressed by the speed with which they reacted to our request, and the technical knowledge of the people who came to see me. They were very professional and knew what they were talking about."*

## Senior Manager

*"You can rely on them from the pumps to the technical back-up. It is an overall package I know I can rely on"*

## Project Engineer

*"I like the fitness for the job. The pumps are excellent; they perform very well with very little maintenance"*

# ... to deliver the promised results.

**All our customers have made major quality improvements to finished goods, with increased hygiene, reliability and production efficiency.**



To improve production and  
**decrease downtime by over 40%**  
an 840FB/R pump was installed. The customer confirmed that  
improvements in the system  
**saved over £250 a week**  
giving payback on the pump in under 6 months.





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Members of the Spirax-Sarco Engineering Group

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.



## Pump Series

## Flow Rates

Put a peristaltic in your process Improve your performance

100

Single channel, low flow pumps. Fixed or variable speed.

1µl/min - 50ml/min

101U

200

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

0.5µl/min - 21ml/min

205U

300

Single or multi-channel pumps with manual, remote or dispensing control.

0.07ml/min - 2 litre/min

313U

500

Microprocessor controlled and IP55 industrial pumps with manual, auto and digital control.

10µl/min - 4.37 litre/min

505S

600

IP55 mid-flow industrial pumps. Fixed or variable speed.

50ml/min - 18.3 litre/min

624U

700

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

1.6 litre/min - 66 litre/min

704U

800

High flow hygienic pumps with full CIP and SIP capability.

2 litre/min - 133 litre/min

840

SPX

Bredel: High flow industrial pumps operating at pressures up to 16 bar (230 psi)

0.3 litre/min 80m<sup>3</sup>/hr

SPX40



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For further details on Watson-Marlow Bredel pumps in the Food and Beverage industry, please request copies of application and technical details.

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