

Watson-Marlow Fluid Technology Group has eight world-class factories supported by direct sales operations in 28 countries and distributors in more than 50 countries. For contact details visit our website

www.wmftg.com





Watson-Marlow online

Our engineers around the world can help you choose the perfect pump, tubing, connector and valve for our needs.

Vore information? Our brochures are on our website www.wmfta.com

DISTRIBUTEUR:



ECOLOGIE - ECONOMIE www.eco-tech.pro

ECO TECH - Rue Marie Louise et Raymond Boucher - 76410 Cléon—France

Notre atelier de réparation est certifié SagrATEX

 (\bigcirc) 02.35.74.48.98 (\boxdot) info@eco-tech.pro



Watson-Marlow... Innovation in Full Flow

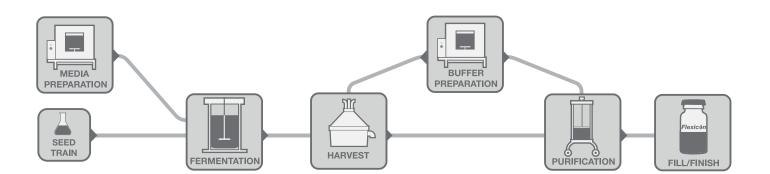
info@wmftg.co.uk

Tel: +44 (0) 1326 370370 Falmouth, Cornwall, TR11 4RU, UK www.wmftg.co.uk



Single-use bioprocessing

Bioprocessing fluid path solutions



Biopharmaceutical processes are among the most critical in the world. It is important to have a partner who you can trust, who understands the process and is able to help achieve compliance and repeatability throughout.

Watson-Marlow Fluid Technology Group is unique in being able to work with you at every process step to ensure your critical fluid transfer requirements are achieved. Whether performing pH control or gentle transfer of live cells, we have a solution.

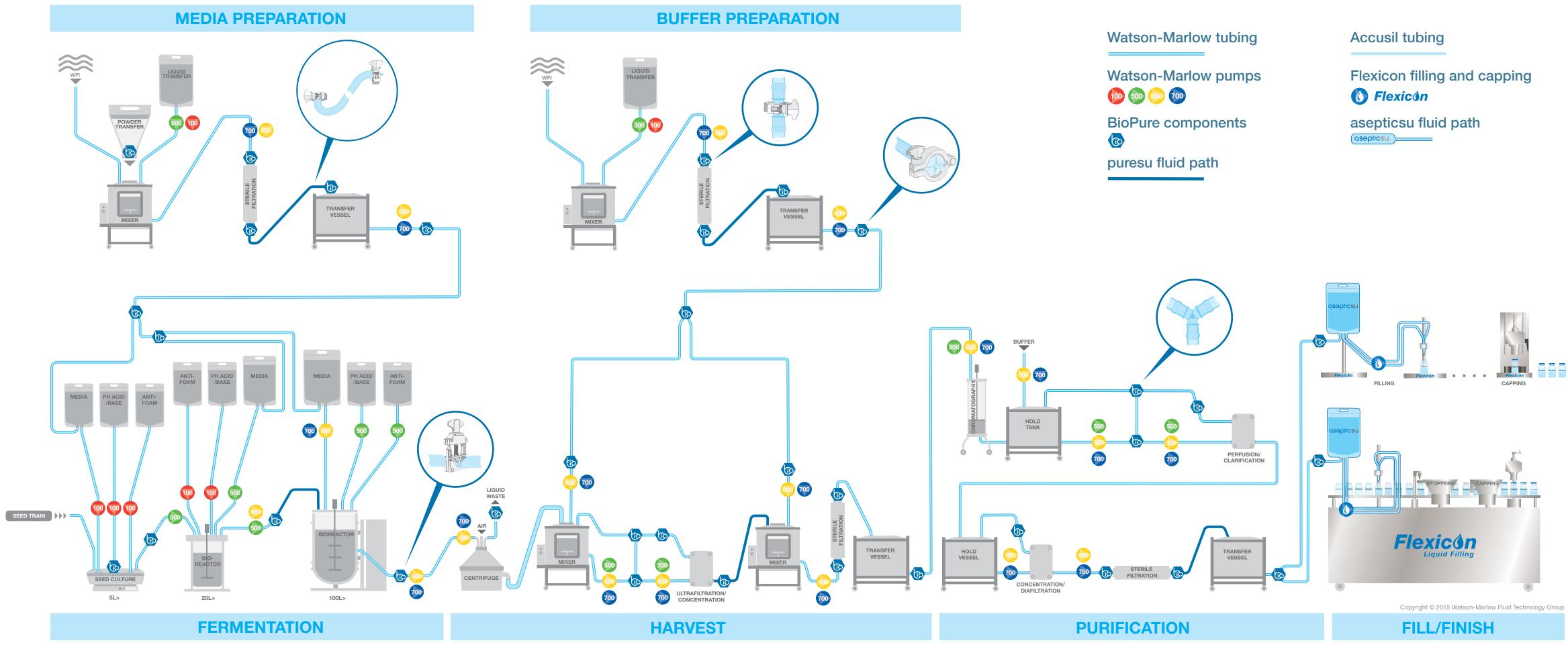
Throughout upstream and downstream, we provide accuracy, reliability and purity for all your fluid handling needs.

In continuous daily use throughout the bioprocessing industry, Watson-Marlow peristaltic pumps provide flow accuracy, ensuring process stability, cGMP compliance and final product quality. Watson-Marlow pumps and tubing, coupled with Flexicon liquid filling and BioPure fluid path components, deliver repeatable, consistent and accurate performance.

- Superior flow stability and metering accuracy, facilitating high-quality bioprocessing
- Scalable technology, constant contact materials, minimising validation
- Extensive product portfolio enables adaptation to meet varying process needs



Single-use bioprocessing—Complete single-use fluid technology expertise



Quality and validation in bioprocessing

Fluid transfer

Maintaining quality and protecting product downstream processes, enabling capacity integrity during fluid transfer is vital. expansion with minimal input in process Providing flows from microlitres up to validation. thousands of litres per hour enables efficient The unimpeded flow path provided by BioPure product transfer. Reduce the risk and time connectors prevent pressure fluctuations which for batch/product changeover at every stage can affect process quality and speed. of bioprocess manufacture. The superior junction strength combined with

The same high-purity, validated, contact materials are available throughout upstream and

- Superior flow stability, providing accurate and repeatable process control
- connection failure and in-line pressure fluctuations

Successful bioprocessing relies on fluid handling accuracy and repeatability; guaranteed batch to batch consistency and compliance with regulations, including cGMP.

Our world-class peristaltic technology is uniquely supported with Watson-Marlow tubing and BioPure fluid path components. These are designed to interact perfectly, making us the only complete fluid path provider in the biopharmaceutical market.

Single-use fluid paths eliminate cross-contamination, with risks further mitigated by the use of high purity, USP Class VI validated contact materials.

The unimpeded flow path provided by BioPure connectors, combined with superior flow control of Watson-Marlow pumps, reduces process variation, enhances operating techniques and increases product quality.

- Process consistency and repeatability
- Unsurpassed control over the fluid path, only Watson-Marlow tubing is validated for operation in our peristaltic pumps



Watson-Marlow tubing significantly reduces the risk of junction failures.

• Flexible and scalable fluid handling, without changing contact materials

• Unimpeded flow path and superior junction strength reduces the risk of

Fermentation

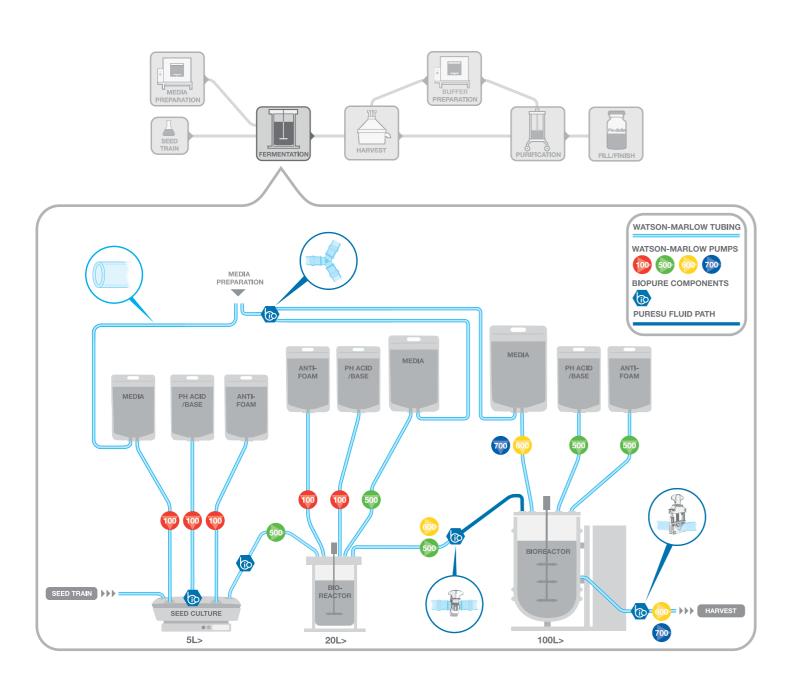
Driven to increase product quality, titer and cell viability, the non-contacting, gentle action of Watson-Marlow peristaltic pumps is the perfect solution for feeds and sampling duties.

Your product is contained within a validated fluid path, only contacting our high-purity tubing and BioPure connectors. Designed to interact perfectly with each other, Watson-Marlow peristaltic pumps and tubing offer exceptional flow control and process stability.

Watson-Marlow peristaltic pumps offer accuracy, with functionality to suit your process needs. Providing consistency and repeatability preventing process deviation/ non-conformance, maintaining cGMP compliance.

The tubing and connectors are the only consumable - true single-use technology, facilitating rapid process validation and supporting the demanding needs of bioprocess manufacture.

- Superior flow stability, providing accurate and repeatable process control, preventing non-conformance, maintaining cGMP
- performance, ensuring the process remains controlled and repeatable at every scale

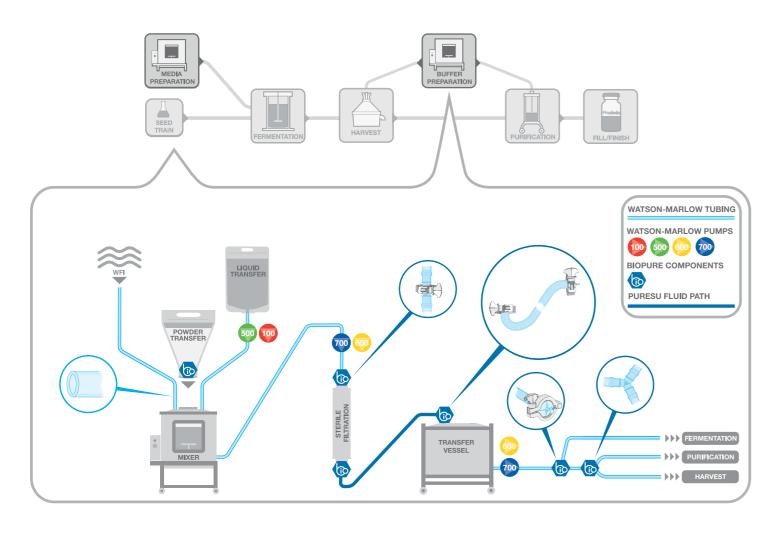




• Flexible and scalable, without changing contact materials or losing

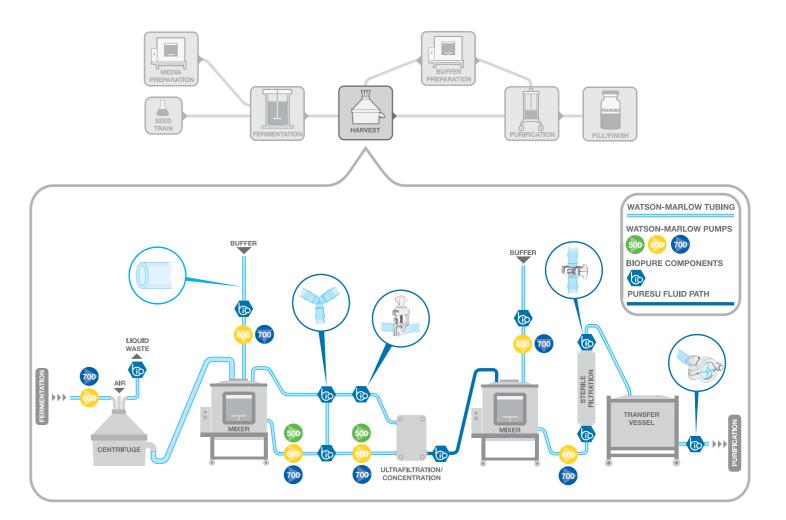
Media and buffer preparation

Harvest



Media and buffer preparation require flexibility of scale without the risk of cross-contamination. With the capacity to provide flows from microlitres up to thousands of litres per hour, Watson-Marlow fluid path solutions ensure process flexibility. With consistent contact materials throughout, validation is simplified, further reducing risks.

Watson-Marlow peristaltic pumps offer exceptional control and accuracy, with functionality to suit your process needs. Single-use fluid paths eliminate cross-contamination, with risks further mitigated by the use of high purity, USP Class VI validated contact materials.



Harvest remains a critical step in Fluid path solutions consisting of high-purity bioprocessing. From transportation of live validated contact materials. A true single-use cells, through to protein capture, the process solution, transfer between batches can be quick must be tightly controlled. The same values and efficient, without the risk of which support successful upstream cross-contamination. processing are transferable and ensure Fully scalable, from development through to optimum gain from this vital step. bioprocess manufacture, a valuable attribute which Watson-Marlow is unique in providing.

- Superior flow stability, providing accurate and repeatable process control preventing non-conformance, maintaining cGMP compliance
- Flexible and scalable, without changing contact materials or losing performance, ensuring the process remains controlled and repeatable at every scale

Fill/Finish

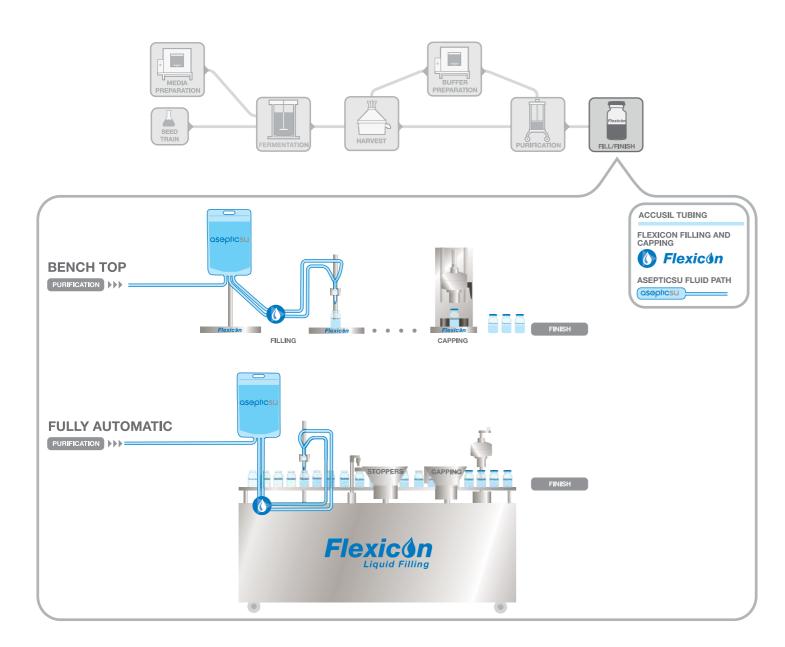
Filling biological products needs equipment with precision and accuracy, that has no effect on fluid integrity and no risk of contamination. Flexicon aseptic filling solutions protect product integrity and eliminate contamination during fill finish.

The low shear, gentle pumping action of Flexicon peristaltic fillers ensures your product is not damaged.

Designed for use as stand-alone benchtop dispensers or part of a fully integrated filling machine. Repeatable dispensing accuracy up to ±0.5% is achieved by precise speed control, calibration and positive displacement action.

Our 'on-campus' manufactured tubing is fully validated, post-cured for high purity and laser-etched for traceability. Flexicon's Accusil tubing is designed specifically for filling applications, providing unrivalled filling accuracy. Accusil provides a single-use technology facilitating rapid process validation and changeover.

- Our unique pump and tubing combination provide exceptional filling accuracy, preventing costly overfilling
- Fully validated aseptic single-use fluid paths reduce contamination risks and simplify product and batch changeovers
- Highly flexible and scalable solutions, with consistent contact materials, making process scaling easy





Products

	RESEARCH		CLINICAL TRIALS			on/ Al	
	DISCOVERY up to 10,000 compounds	PRE-CLINICAL 250 compounds	PHASE 1 20 - 100 trials	PHASE 2 100 - 500 trials	PHASE 3 1,000 - 10,000 trials	EVALUATION/ APPROVAL	CLINICAL MANUFACTURE
Watson-Marlow pumps							
120 Series	•	•	•				•
520 Series		•	•	•	•		•
620 Series			•	•	•		•
720 Series				•	•		•
Watson-Marlow tubing							
Pumpsil	•	•	•	•	•		•
Bioprene	•	•		•	•		•
PureWeld XL	•	•	•	•	•		•
GORE STA-PURE PCS			•	•	•		•
BioPure							
BioBarb	•	•	•	•	•		•
BioClamp	•	•	•	•	•		•
FlatBioEndCap		•	•	•	•		•
Bio Y	•	•	•	•	•		•
BioValve	•	•	•	•	•		•
BioEndCap		•	•	•	•		•
puresu			•	•	•		•
Flexicon							
Accusil tubing		•	•	•	•		•
asepticsu single-use fluid paths			•	•	•		•
Tabletop crimp and screw cappers		•	•				
Tabletop filling/capping		•	•	•			
Semi-automatic filling and capping				•	•		
Fully automatic filling and capping					•		٠

WATSON MARLOW Pumps 520 Series 120 Series WATSON MARLOW Tubing Pumpsil PureWeld XL BioBarb Bio Y FlatBioEndCap BioEndCap Flexicon Liquid Filling SHI ID Accusil asepticsu

Semi-automatic systems

Fully automatic systems

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