

720 SANITARY PUMPS

Watson-Marlow Bredel... Value for life

NEW



The perfect solution for single-use

Pumping elements can be fitted to the 720 pump in seconds without breaking system integrity. Unlike lobe pumps, there is no cleaning to validate, dramatically

reducing product time to market. With control options to suit your process and your choice of pumphead and tube options, the new 720

Buffer and media preparation

The peristaltic pump is the perfect pump for rapid bag filling and mixing of buffers and media for cell culture and filtration. Full remote and analogue control provides precise recipe mixing, plus integration with PLC



Fermenter feed

Simple operation for charging and harvesting large bio-reactors



UPSTREAM

PREPARATION

Bag mixing

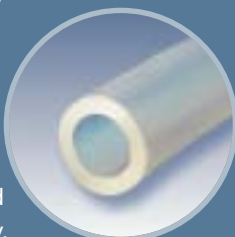
Two pumpheads can be mounted on a 720 drive to provide up to 4,000 litres per hour flow. Efficient mixing is proven to homogenise solutions quickly, maintaining any solids in suspension. Gentle pumping action prevents foaming



Now make your tube material choice...

Pumpsil for traceability

Pumpsil platinum-cured tubing has an extra-smooth bore for less protein binding and high levels of purity. Every length of Pumpsil is laser-etched to protect validated processes and comply with approval requirements.



Bioprene for FDA approval

Bioprene complies with USP Class VI, FDA requirements 21 CFR 177.2600 and NSF and USDA standards for food handling. It has wide chemical compatibility and can handle repeated autoclaving.



Sta-Pure for life

Sta-Pure has a unique construction of silicone in a PTFE lattice giving it superior burst resistance up to 7 bar (100psi) and 18 times longer life than silicone tubing. It produces virtually no spalling, is USP Class VI approved and is classified as non-toxic.



transfer package you've been waiting for

bioprocessing

sanitary element pump maximises productivity, speeds development time and improves profitability.

DOWNSTREAM

Filtration

The 720's four driven rollers provide a low-pulse, very low-shear flow for maximum live cell retention. Full skid integration through the comprehensive remote, analogue or RS485 control.



Live cell transfer

Low-shear: cell vitality retained, cell damage minimised. Ease of cleaning validation. Flexible, unlike a lobe pump. Can be mobile. Change the tube, change the pump.



Images used by courtesy of Stedim Biosystems and Sartorius BBI Systems GmbH

...and connect up

BioBarb disposable tube connectors

BioBarb polypropylene fittings assure sterility wherever a fluid flow must divide, or where tubing lengths must join. BioBarb fittings do not choke the fluid path



No compromise

Your process is in place. After months of research you want to scale-up production with the same technology. The new Watson-Marlow Bredel 720 sanitary pump is the perfect choice: metering and transfer without loss, contamination or cell damage. No compromise.

- Up to 4,000 litres/hour; up to 2 bar
- 3,600:1 control ratio
- Maintenance-free, brushless DC motor with no carbon brush dust
- Tough, corrosion-resistant IP66 washdown case
- Five years warranty: value for life
- Low-shear pumping to maximise cell yield
- Simple operation and PIN protected: SOPs made easy
- Full remote, analogue and RS485 control for skid integration
- Four driven rollers for low pulse pumping

Removable track facilitates CIP, allowing cleaning to cGMP. Straight-through flow path ensures perfect cleaning—unlike a lobe pump where dead spots and seals make it difficult to ensure cleanliness.

LoadSure elements: the tubing for the job

The 720 is perfect for use with Watson-Marlow Bredel validated, fully traceable LoadSure elements. Choose continuous tubing where no joins in the fluid line is a vital consideration, or tube elements if simple, fast and foolproof tube loading is preferred.

- LoadSure elements are fully traceable back to raw materials for all wetted parts
- LoadSure traceability via LOT number permanently laser-etched on the element
- Certificate of conformity is supplied with all tubing and elements
- Pumpsil, Bioprene and Sta-Pure validation packs are available upon request
- There are three material and four bore size options for LoadSure elements (Pumpsil, Bioprene, Sta-Pure)
- There are four materials and five bore size options for continuous tubing (Marprene, Pumpsil, Bioprene, Sta-Pure)



