

FMB2011

HIGH THROUGHPUT FILLING AND CAPPING MACHINE

- Up to 120 vials per minute
- 100% check weighing of fill volume
- 100% torque control at capping station
- 100% inline process control and reporting
- 100% flexibility with modular design
- 100% user friendly





www.wmflexicon.dk
Member of the Watson-Marlow Pumps Group

FMB2011 TECHNICAL SPECIFICATIONS

FMB2011 is a highly flexible modular system for aseptic liquid filling and capping for the biopharmaceutical industries and is designed especially for medium and large sized production with frequent product changes.

User friendliness and easy change-over are main features of FMB2011.

A design according to cGMP combined with software in compliance with 21 CFR part 11 and GAMP5 make this the optimum choice for filling of for example vaccines and diagnostic kits.

FMB2011 is equipped with the unique Flexicon peristaltic fillers with our internationally recognized technology inside.

The peristaltic filling technology encompasses a complete closed fluid path, where the liquid is only in contact with silicone tubing and a filling needle.

Excellent and consistent filling accuracy and documentation thereof is guaranteed through integrated weighing cells. If you are looking for 100% check weighing, the FMB2011 is the right solution. Even at a capacity of up to 120 vials per minute.

With the highly flexible and programmable walking beam a wide range of vials can be moved very gently from one station to the next and contact between the vials and machine parts is prevented during check weighing.

Two different capping modules are available for crimp capping and screw capping respectively.

The roller closing technology for crimp caps is designed for minimum air turbulence when applied under laminar air flow.

With the FMB2011 protection against leaking bottles is no longer just a dream. The screw capping module provides a very accurate and monitored torque with a tolerance between ± 5 and ± 8 Ncm depending on the applied torque.

Are you looking for a filling system which can easily be integrated into a RABS? Then the FMB2011 might also be what you are looking for. With a depth of less than 1 meter / 3 feet, easy access to all areas of the machine is ensured, even through glove ports.

Flexicon has supplied more than 200 fully automatic filling and capping systems. Contact us for more information or a visit our factory. We believe in a close constructive and open co-operation from receipt of a user requirement specification to installation and approved IQ/OQ.



Easy changeover between vial sizes in few minutes, gentle transport of vials and no contact with machine parts during check weighing. Simply by using a walking beam.

The modular system can be customised according to specific user requirements. For example:

- Up to 120 fills per minute depending on fill volume and bottle/vial size
- 100 percent check weighing provides excellent and consistent filling accuracy
- Fully automatic stoppering or insertion of drip inserters
- Crimp capping with low turbulence roller disc technology
- Screw capping with accurate and monitored torque provide the perfect balance between bottles that does not leak and easy removal of caps
- Capping module separated from the filling and stoppering modules
- Very fast and easy changeover between batches
- Integration with laminar air flow unit
- Integration into restricted barrier system RABS
- Modification for integration into an isolator
- 2 reject stations
- Full IQ/OQ protocols and support during tests
- Foot print and modular design allowing for easy transport into production facility
- Connections to peripherals like particle counters, sterilization units, labeling machines, tray loader, inspection machines etc.
- Gas purging of prior to, during and after liquid filling
- GAMP5 compliance
- 21CFR Part11 compliance