

## FF20

### TABLETOP VIAL/BOTTLE HANDLING SYSTEM

- Ø12 to Ø60 mm bottles
- Eliminates repetitive strain injuries
- Complete change-over in less than 5 minutes
- No format parts
- Up to 2,000 units/hour



WORLD LEADERS IN ASEPTIC PERISTALTIC FILLING



## FF20 TECHNICAL SPECIFICATIONS



FF20 is a rotary vial/bottle handling system designed for use with Watson-Marlow Flexicon's liquid filling program, which encompasses both peristaltic liquid filling systems and a cream filler.

FF20 becomes a fully automatic filling system when combined with the PF6, PF22, GF30, DF32 single unit fillers or a MC12/PD12 combination. These combinations can deliver up to 2,000 fills per hour. At the same time FF20 provides a consistent production quality that is unobtainable when using a manual or semi-automatic system. Even unstable vials/bottles can be filled by FF20 as the speed by which the vials/bottles are presented at the filling needle is fully adjustable. Furthermore, solutions can be designed to handle bottles with special shapes.

Liquids can be filled automatically in volumes from 0.1 ml to 150 ml. Cream can be filled in volumes from 5 ml to 150 ml.

A key element in Watson-Marlow Flexicon's product line is the care taken to minimize production downtime and, at the same time, ensure clean or sterile production. FF20 is true to this concept.

A bottle size change on the FF20/PF6 combination takes approximately 2 minutes, whereas a complete product and bottle size change can be completed in 5 minutes.

FF20 can be extended to fit a wide variety of production requirements. FF20, complete with filling head and used in conjunction with one of Watson-Marlow Flexicon's crimp or screw capping machines, provides a simple and flexible means of production, which can be either tabletop mounted or placed inside a typical LAF cabinet.

FF20 is mainly made of stainless steel and anodised aluminium for cleanroom environments and its outstanding performance and reliability is demonstrated by the many hundreds of installations made world-wide.

**Mains:**

110/230 VAC earthed, 50/60 Hz

**Power consumption:**

Max. 100 W

**Air supply:**

Clean and dry air at 6 bar  
25 l/min free air by 2,000 fills/hour

**Bottle sizes:**

Approximately Ø12 to 60 mm

**Weight:**

40 kg

**ROTARY TABLE**

**Materials:**

AISI304 stainless steel, anodised aluminium and Delrin

**CONTROL BOX**

**Cabinet:**

Anodised aluminium

**Ingress protection:**

IP31

**Interface:**

Input for disable bottle exchange  
Output for status

**Accessories:**

Filling system, printer, etc.

