

# *FF* SERIES

*modular & flexible*

Advanced Filling Technology



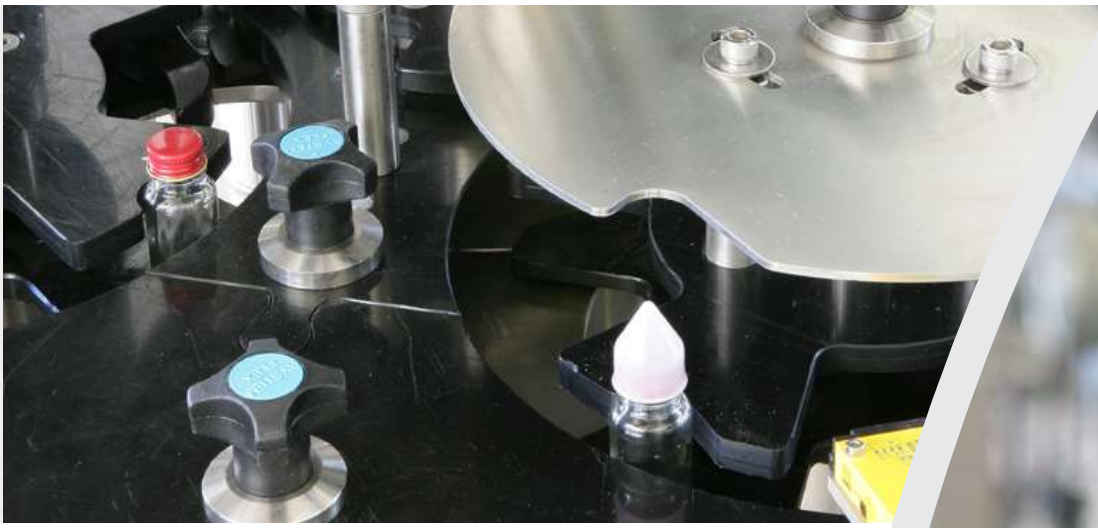


The **FF Series** of Monobloc rotary filling and capping machines is the result of over 15 years of activity in the field of liquid filling. The FF Series is supplied in two versions. The FF-P series is for Pharmaceutical applications and the FF-G Series is for Cosmetic, Personal care, House-Hold Care and Food applications. The FF Series is modular, flexible and offers the Pharmaceutical, Cosmetic, Personal care, House-Hold Care and Food industries the right technological filling solutions.

The **FF-P** and the **FF-G** series are offered as a monobloc filler capper or as tri-bloc fillers with twin capping stations. The FF-G series tri-blocs are used commonly for roll on deodorant where a ball is inserted and then a cap is screwed on afterwards. The FF-P series tri-blocs are commonly used for pharmaceutical products where a measuring cap is pressed on after capping. With a high degree of flexibility and modularity this machine series allows compact and effective combinations to satisfy even the most stringent filling requirements.

*Robust  
efficient  
safe*





The FF Series is capable of working under extreme production loads (3 daily shifts) and boast a very compact overall layout. Their high reliability is proven by the many successful installations worldwide. Ideal for a variety of products such as syrups, solutions, suspensions, sugar or viscous products, creams and lotions, the machines of the FF Series can handle from 2 to 3000ml filling volumes with an output of up to 250 bpm, featuring Mass flow meter or Mag Flow meter filling technology with dual speed filling nozzles for improved filling speed and accuracy. Bottom-up filling systems are available for very foamy products. Flow meter fillers offer many advantages over older technologies and these include minimal maintenance, accurate filling, fast and effective CIP, flexibility etc.

The FF Series of machines is very compact and ergonomic and couples the flow meter filling operation with the capping station. The capping turrets can be equipped with various types of closing heads for all types of closures, such as screw caps, push-on caps, aluminum ROPP caps, all typical of pharmaceutical and cosmetic applications.

The compact arrangement of the Filling and capping turrets allows the possibility of handling unstable containers in pucks, simplifying and providing solutions for even the more difficult packaging operations. The wide range of machine models available allows the FF Series of machines to be part of complete packaging lines.

Thanks to the high level of integration and to proven reliability of the individual machines the Filtec lines provide high output for the entire production process.



*Plastic and glass bottles, in any shape*  
*and with all the closures typical of pharmaceutical and cosmetic products.*





Filtec offers the pharmaceutical and cosmetic industry state-of-the-art machines and we strive towards new innovations by constantly developing and upgrading our filling technology.

Combining essential features and the simplicity of proven closing systems with widely appreciated high standards of quality and reliability, the FF Series of high speed Flow meter fillers is the Ultimate innovation in the Filtec filling range. The particularly versatile FF Series has been designed to reach an output speed of up to 250bpm with up to 36 filling heads and 10 capping heads.

Our high speed machines can be equipped with the latest generation of completely automated CIP-SIP systems. Filtec has developed an automatic CIP/SIP system for its FF Series of Rotary Fillers, which remarkably reduces the manual intervention of the operator with subsequent saving on time and money.

All the manual operations between the CIP and the SIP phase have been eliminated and are carried out automatically. The flexible pipes for the washing media and for the steam are now easily connected one to the other and to the fluids discharge manifold, by means of quick-couplers. This system avoids any spillages or leaks of liquid during the entire cleaning process.

All our FF-P series machines are fully validated and can be supplied with validation documentation.

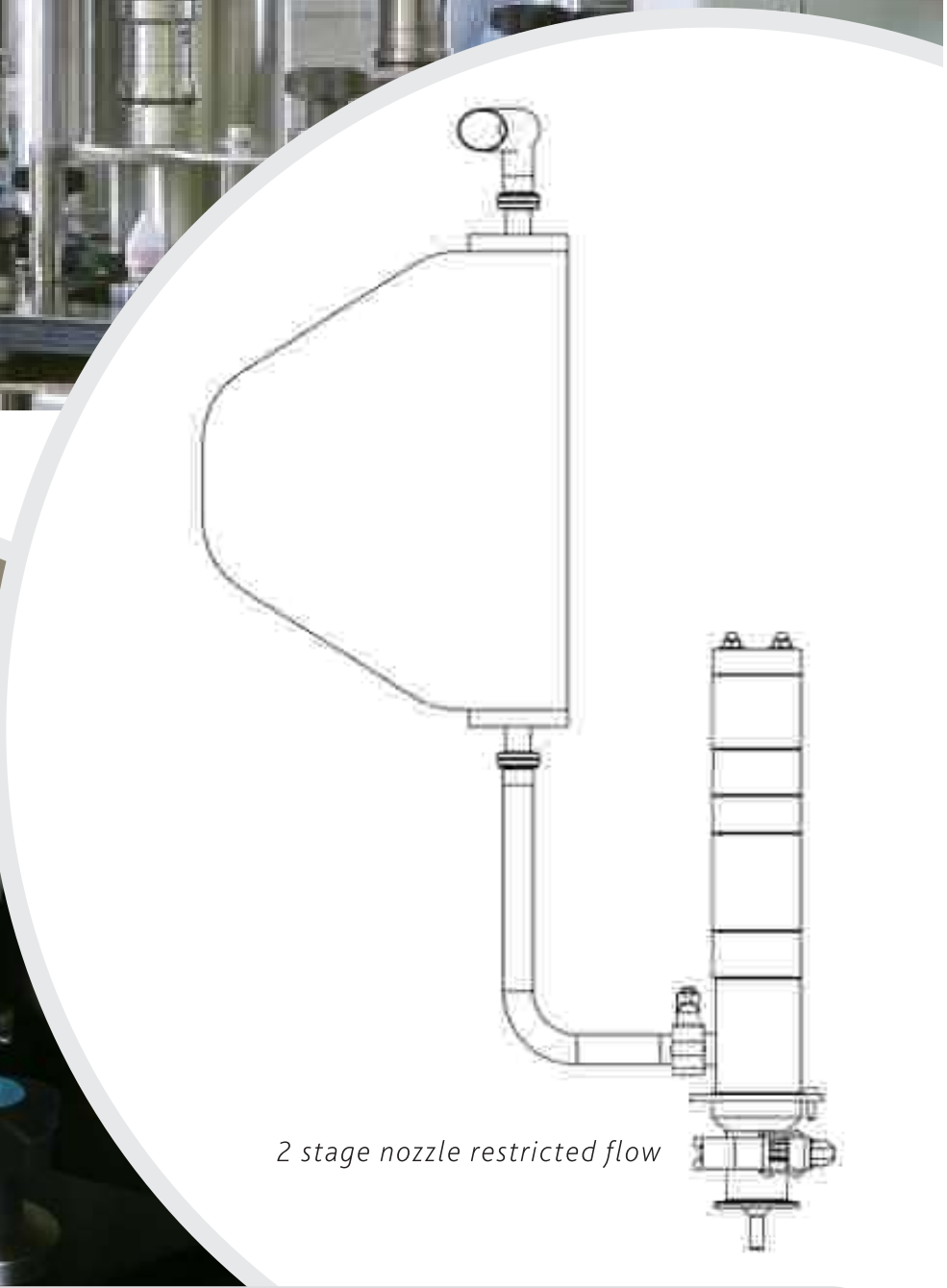
Automatic adjustment of the Filling and capping turret height is done by means of motors.



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## TECHNICAL DATA

*Mass Flow Meters or Mag Flow Meters with single or dual stage filling nozzles.  
Available with 8, 12, 18, 24 or 36 filling heads.*



Models	FF0804	FF1205	FF1808	FF2410	FF3610
No. of filling heads	8	12	18	24	36
No. of capping heads	4	5	8	10	10
Bottle diameter (mm)	16 - 95	16 - 95	16 - 95	16 - 95	16 - 95
Bottle height (mm)	40 - 230	40 - 230	40 - 230	40 - 230	40 - 230
Maximum cap diameter	70	88	88	88	88
Maximum output (bottles per hour)*	6000	8000	12000	18000	27000

*\*Depending on container volume, neck diameter, product viscosity and foaming*