

# KALISH FILLTRONIC

POSITIVE DISPLACEMENT GEAR PUMP LIQUID FILLING MACHINE



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Manufactured since 1981, Filltronics are in use throughout the world on an impressive range of products and a wide range of fill volumes.

- FAST AND ACCURATE
- SIMPLE TO USE
- RELIABLE
- QUICK CHANGEOVER
- FLEXIBLE





Sanitary stainless steel precision gear pumps (steripumps) meter product through positive shutoff nozzles into a variety of containers with great accuracy and reliability. Perfectly suited for nearly all free-flowing viscosities, the Filltronic can be configured with 2 to 12 pumps to reach speeds up to 140 bottles per minute, with accuracies up to  $\pm 0.5\%$ . This versatile filler handles fill volumes from a 1/2 ounce to gallons without change parts. It is faster than a piston filler as there is no back and forth stroke to wait for and gear pumps are always immediately ready to fill again after completing a fill. Fully adjustable diving shutoff nozzles reduce turbulence and minimize foaming during fill cycle. The synchronized nozzle lift system allows nozzles to dive into containers by gravity and if misaligned, the containers are not damaged as the nozzles simply stop their descent and await a reset. The adjustable nozzle lift speed allows nozzles to precisely follow rising product level and then speed up to clear containers once fill is complete. To save time and increase production on foamless products, nozzles can be set for a partial dive to only dive into the container necks. Nozzle dive can also be delayed at bottom or neck of container to handle stringing or dripping products.

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## RELIABLE PUMPS

Pumps are individually driven by separate motors with integral precision encoders, allowing the filler to operate even if one of the motors is not functioning. Pump volume and speed can be set individually to fine-tune outputs for each pump. American-made, the Filltronic comes standard with 1/2HP drives to handle a wider range of product viscosities.





## PRESSURIZED TANK

Able to fill from a 1/2 ounce to gallons without change parts, the only item needed may be container neck clamps. Larger size nozzles can be used to optimize speed outputs for larger containers.

The Filltronic uses an Omron PLC which is commercially available and allows custom features to be added. Options available on the Filltronic include such things as extended length dive for tall containers, angled dive systems for challenging container shapes and Internal Purge System for Explosion Proof Class 1, Division 2 requirements.

Optional 80 liter stainless steel tank with constant level float switch helps ensure consistent accuracy by delivering product to the pumps with constant head pressure. Pressurized tanks are also available for very viscous products.



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## QUICK CHANGEOVER

Regardless of machine speeds, you cannot have flexibility or production line efficiency if you spend most of your time doing changeovers. We've virtually eliminated time consuming adjustments, opting instead for instant recall memories for product setups, tool-less adjustments, simple drop-in neck clamp change parts, and quick-clean pump and nozzle designs.

Steripumps and shut off nozzles are quickly removed from the filler without tools. To save time, a second set of pumps, nozzles and tank can be kept clean and ready for installation. Using this proven method, your changeover time between products can be as little as 10 minutes.

6 liter/minute, 12 liter/minute or 24 liter/minute output capacity steripumps are available with a variety of gear and seal materials to best match your product.

- If fill volumes are small and high accuracy is needed, 6L/minute model is ideal.
- If you fill a variety of container sizes, the 12L/minute is best.
- If filling large containers, the 24L/minute will offer the best output speeds.
- Lobe Gears with a 32 liter per minute output, are available for products containing particulates or to handle particularly viscous products.



## HMI

User-friendly color touchscreen allows for fill volume, speed and dive adjustments as well as instant recall of hundreds of stored recipe settings.

Settings can be changed while filler is running and different levels of password protection ensure that critical settings are not accidentally erased. Filler permits running complete cycles without product to ensure that gating and nozzle positioning is set up properly.

Neck clamps are fitted to positively align containers under each nozzle. Safety sensors such as no dive/no fill, no bottle/no fill, low air, and conveyor back-ups are all standard. Filler is available with or without Lexan guarding.

# TECHNICAL DATA

Controls	Omron Sysmac PLC and 8" CTC Color Touchscreen
Pumps	From 2 to 12 pumps
Pump size	From 6L to 32L per minute
Voltage	208 / 220 single phase 50 or 60 Hz
Utilities	Compressed air - 90 PSI - at 1 SCFM / 30 LPM
Weight	1,500 lbs / 650 KG
Speed	To 140 bpm dependent on configuration
Fill Volumes	From less than 0.5 oz / 10 ml to over 1 Gallon / 4 Liters



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