

## PISTON FILLERS

# SERIES/1500

**Automatic Liquid & Viscous Applications, High Volume Production and a Variety of Nozzle Configurations.**

The Series 1500 Piston Filling Systems from All-Fill are designed for completely automatic, multiple piston, in-line dispensing of liquids and pastes in volumes to match specific production requirements. Precision bored, heavy-walled metering cylinders dispense product at accuracies up to +/- 0.5%. A variety of nozzles, cutoffs, cylinder sets, and accessories are available to meet your specific requirements. All stainless steel construction and pneumatic operation ideal for wash-down environments, hazardous locations, and may incorporate up to 8 dispensing heads.

Available with a motorized conveyor and an indexing package for integrated container handling and positioning. No Container/No Fill feature detects missing or mispositioned containers to prevent waste and product spillage. The unique variable speed feature provides precise "no spill" control to eliminate splashing. Versatile Programmable Logic Controller (PLC) ensures reliable and repeatable control with minimal operator time.



### SPECIFICATION SUMMARY:

<b>Production Rates:</b>	Varies dependent on fill size and amount of nozzles, 2, 4, 6 & 8 nozzle configurations available
<b>Features:</b>	Multi-stroke control with counter controls. Container indexing to regulate container movement and positioning. Variable speed 8' stainless steel conveyor; includes container indexing. Level control for consistent product re-supply. Footswitch for initiation of fill cycles. Air logic controls/air motor for hazardous locations, nozzle side shift, drip tray
<b>Nozzle Sizes:</b>	A range of delivery nozzles allows exceptionally clean cut off of almost any liquid or semi liquid product.
<b>Fill Volumes:</b>	1.69 oz. to 1 gal., with solid particles up to 7/8"
<b>Cylinder Sizes:</b>	Variety of sizes from .75" to 6.75"
<b>Accuracy:</b>	±0.5%, typical
<b>Product Supply:</b>	Polished, stainless steel conical 13 gal. capacity hopper or 90° inlet adapter with 5' of tubing for supply from bulk source
<b>Options:</b>	Air logic controls, diaphragm cutoff, container indexing packages, bottom-up filling, insulated/heated hoppers, tri-clover fittings for hopper and nozzle connections (pharmaceutical applications), continuous recycling with toggle switch, suck back design or positive cut-off, a range of portable stainless steel stands - low level, standard and heavy duty with adjustable height, multiple stroke mechanism for larger fills, 3 types of product valves available – standard rotary, large rotary and check valve, optional sub-surface filling mechanism and nozzle for filling foaming products, Air motor for hazardous locations.
<b>Controls:</b>	Fill Volume: Stroke adjustment knob at rear of unit. Fill & Recharge Speed: Adjustment, Indexing, conveyor speed
<b>Pneumatic:</b>	80 PSI @10 SCFM

## PRECISION & CONSISTENT FILLING:

Precision fills can be achieved by using a range of expert-bored, heavy wall metering cylinders – an optional multiple stroke mechanism is available for larger fills. A range of non-drip shut off nozzles enables exceptionally clean filling of most products. Sub-surface fill option is available for efficient filling of foaming liquids. A suck back nozzle using a small diaphragm can also be fitted to prevent drips and stringing of sticky products or a positive cut-off nozzle. The piston filler is pneumatically operated and is completely safe in wet or hazardous areas. It is manufactured to strict hygiene standards and can be easily disassembled when cleaning is not applicable. During a filling cycle, a piston travels back to draw product from the hopper into a precision machined cylinder, then extends forward to fill. Product is dispensed into the container through a filling nozzle and/or cutoff device. Nozzles are available for single/multiple fill positions, or for specific products. Cutoffs prevent product from dripping after the fill.

## COMMON APPLICATIONS:

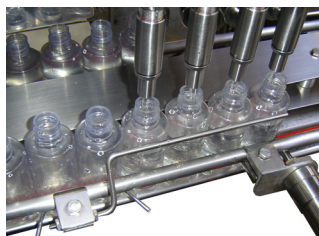
- |                      |                  |                     |                  |                           |
|----------------------|------------------|---------------------|------------------|---------------------------|
| • Adhesives          | • Condiments     | • Fungicides        | • Medicines      | • Relishes                |
| • Butter & Margarine | • Desserts       | • Honey             | • Motor Oil      | • Salad Dressings         |
| • Burrito Mix        | • Dough          | • Ink               | • Nail Polish    | • Sauces                  |
| • Cheeses            | • Epoxy          | • Jams & Jellies    | • Ointments      | • Shampoos & Conditioners |
| • Cold Cream         | • Essential Oils | • Ketchup & Mustard | • Paint & Resins | • Soups & Stews           |
| • Cooking Oils       | • Extracts       | • Lotions           | • Pate           | • Waxes                   |
| • Cordials           | • Fruit Salad    | • Mashed Potatoes   | • Peanut Butter  | • Yogurt                  |

## CUSTOM OPTIONS & UPGRADES AVAILABLE:



### **OPTIONAL CONVEYERS:**

Series 1500 filling systems are available with a motorized conveyor and an indexing package for integrated container handling and positioning.



### **MULTIPLE NOZZLES:**

Available in two, four, six or eight head configuration and extremely robust and suitable for filling most types of containers in the range of 50 ml to 5 liters.



### **PRECISION PARTS:**

A range of cylinder sizes, cutoffs and nozzle tubes are available, with optional suck back design or positive cut-off.



### **SPILL CONTROL:**

A separate unique variable speed feature provides precise "no spill" control to eliminate splashing. Specifically designed for automated multiple head (in-line) filling applications requiring a high degree of versatility.

## **WORLD-CLASS SERVICE & SUPPORT:**

We understand downtime and its effect on your bottom line. Packaging machinery is only as strong as its service and support system. If you run into challenges, All-Fill's Service team consists of 15 full time service employees with over 150 years of combined experience in the packaging industry. Our team can train, install, and troubleshoot any All-Fill machinery. We service domestically and in our international territories: Canada, Central and South America, India, China and Australia. Contact our Service team at [Service@all-fill.com](mailto:Service@all-fill.com).

## **PARTS SUPPORT:**

All-Fill machines are designed using the most innovative controls and the highest quality parts and components. All-Fill has an unmatched ability to identify and resolve issues that may arise with your machine. Our parts department provides quality support in a timely manner to reduce your downtime and stocks most parts for quick delivery. From mechanical assemblies, electronic components, tooling, machine accessories and software, we have the parts you need. Contact our Parts Department at [AFI-parts@all-fill.com](mailto:AFI-parts@all-fill.com).

## **INTERNATIONAL INQUIRIES:**

All-Fill's packaging machinery is available worldwide for almost any product and industry. Our more than 50 years of engineering expertise combined with our industry leading field support makes us a leader in the industry. We design, manufacture, install and service machinery with maximum accuracy and reliability. Our global presence means uncompromising service and support, no matter what or where your needs are. Reach out today to discuss your project with our international sales team. Contact us at [info@all-fill.com](mailto:info@all-fill.com).