

PISTON FILLERS

SERIES / 500

Automatic Liquid & Viscous Applications With a Variety of Nozzle Configurations.

The Series 500 is a line of heavy duty, pneumatically operated, high capacity volumetric piston fillers for a wide range of liquids, creams, pastes, and gels. Our Piston Fillers can dispense particulates up to 7/8" diameter at production volumes of 8 oz. to 1 gal. per fill. 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 12 dispensing heads.

The Series 500 is suitable for accurate dispensing of most liquid or semi liquid products, and may be used for filling rigid containers and pouches. All contact parts are manufactured from stainless steel or suitable food grade plastics. Allowing them to be used for such diversified products such as food products, cosmetics & pharmaceuticals, home care products, and corrosive chemicals. Material may be handled hot or cold, and volumetric accuracy is usually within $\pm 0.5\%$.



SPECIFICATION SUMMARY:

Production Rates:	Varies dependent on fill size and amount of nozzles, 2, 4, 6, 8, 10 & 12 nozzle configurations available
Features:	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 Sizes:	A range of delivery nozzles allows exceptionally clean cut off of almost any liquid or semi liquid product.
Fill Volumes:	0.169 oz. to 1 gal., with solid particles up to 7/8"
Cylinder Sizes:	Variety of sizes from .75" to 6.75"
Accuracy:	$\pm 0.5\%$, typical
Product Supply:	Polished, stainless steel conical 13 gal. capacity hopper or 90° inlet adapter with 5' of tubing for supply from bulk source
Options:	Container indexing packages, bottom-up filling, insulated/heated hoppers, tri-clover fittings for hopper and nozzle connections (pharmaceutical applications), push button or footswitch initiation, 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.
Controls:	Fill Volume: Stroke adjustment knob at rear of unit. Fill & Recharge Speed: Adjustment, Initiation: Footswitch initiation or automatic
Pneumatic:	120 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
- Butter & Margarine
- Burrito Mix
- Cheeses
- Cold Cream
- Cooking Oils
- Cordials
- Condiments
- Desserts
- Dough
- Epoxy
- Essential Oils
- Extracts
- Fruit Salad
- Fungicides
- Honey
- Ink
- Jams & Jellies
- Ketchup & Mustard
- Lotions
- Mashed Potatoes
- Medicines
- Motor Oil
- Nail Polish
- Ointments
- Paint & Resins
- Pate
- Peanut Butter
- Relishes
- Salad Dressings
- Sauces
- Shampoos & Conditioners
- Soups & Stews
- Waxes
- 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.



PRECISION PARTS:

A range of cylinder sizes 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.

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.

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.

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