

PISTON FILLERS

MODEL / 505

Semi-Automatic Liquid & Viscous Applications with Single Nozzle

The Model 505 is a versatile single nozzle, semi-automatic, pneumatically operated piston filler for accurate dispensing of smaller amounts of liquid, semi liquid, creams, pastes, and other viscous products. Construction is corrosion resistant with frame and covers fabricated in stainless steel. All contact parts are manufactured from stainless steel and suitable food grade plastics, allowing it to be used for such diversified products as food products and corrosive chemicals. Material may be handled hot or cold, and volumetric accuracy is usually within +/- 0.5%.

Fill volumes can vary from 50 ml. to 5 liters per cycle with up to 20 fills per minute in either manual or automatic operation. The standard rotary valve has large ports, allowing the passage of viscous products – and products containing particulates up to 7/8" across. A range of non-drip shut off nozzles enables exceptionally clean filling of most products. A sub surface fill option is available for efficient filling of foaming liquids.



SPECIFICATION SUMMARY:

Production Rates	Results vary according to fill size, product characteristics and operator efficiency
Features:	Dual speed filling for greater control, convenient front panel volume adjustment; auto recycle, simple volume adjustment by hand crank, pneumatic control with foot switch or electrical initiation.
Nozzle Sizes	A range of delivery nozzles allows exceptionally clean cut off of almost any liquid or semi liquid product
Fill Volumes:	50 ml - 5.00 liters
Cylinder Sizes	Variety of sizes from 4.75" to 6.75"
Accuracy	±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 and conveying indexing packages, agitation solutions, 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, 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 conveyor
Controls	Fill Volume: Stroke adjustment knob at rear of unit, Fill & Recharge Speed: adjustment, Initiation: Spring-loaded switch at front of unit. Footswitch initiation also available
Pneumatic:	100-120 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:



ABILITY TO SCALE

An auto gating kit is available to convert the semi-automatic filler to a fully automatic system suitable for auto filling on almost any conveyor and container indexing.



PRECISION PARTS

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



OPTIONAL FRAME

Standard bench mounting or upgrade to stainless steel frame; low level, standard and heavy duty with adjustable height and castors.

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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