

Semi-automatic Volumetric Filling Machine

Atpack Machinery

Description

Volumetric fillers measure and dispense free flowing products - such as thin and/or moderately dense liquids - onto a container. Each machine is equipped with one or more volumetric pistons. Each fill/release cycle consists of an intake stroke, where the product is withdrawn from the container or hopper and taken into the product cylinder. The down stroke commences as soon as the product cylinder has reached its predetermined fill level. The piston pushes the product out of the cylinder and into the container.

The amount of product to dispense is set by a simple adjustment of the length of the piston stroke (the distance covered by the piston). The adjustment is performed by turning a small adjusting wheel located at table-top level. If the stroke is reduced the volume of dispensed product decreases. On the other hand, lengthening the piston stroke will result more product being dispensed. Once the set, the piston filler will dispense accurately and repeatedly. Two repeated cycles can be performed to fill volumes that are higher than the cylinder capacity.

Our Volumetric Piston Fillers are used by industries in the Food & Beverage, Cosmetics, Personal Care, Agricultural, Animal Care, Pharmaceutical, and Chemical fields.

Features

- Approximate Speed: 5 - 38 pcs/min(depending on filling volume, operator speed, product density, draw length, a fill speed, among others)
- All Parts in Contact with Product are Food Grade (SS 316)
- Stainless Steel Construction(SS 304, 1.5mm thickness)
- SS316 One-way Valve/Rugged Rotary Valve System Design
- Electrical-pneumatic Operation
- Fluoropolymer elastomer O-ring System
- Adjustable Volumetric Piston System with Numeric Reference Display
- Piston Feed Speed Adjustment
- No-drip Option Included and Installed
- Extremely Accurate (+/- 0.5%)
- Extremely Easy to Clean and Maintain
- Sanitary Stainless Steel Quick Disconnect Fittings
- Extremely Easy to Operate
- Quick Connect/Disconnect Pneumatic Fittings.

Standard Types

We have two major machine type: liquid type and cream type. And each type get three machine structures as following:

- 1, Electric-pneumatic bench top type filler (machine is placed on the table)
- 2, Electric-pneumatic standing type filler (Machine standing on its own structure)
- 3, Pneumatic type filler (for damp environment or EX-proof situation)

Bench top liquid filler	Standing type liquid filler	Bench top cream filler	Standing type cream filler
VLF-A100	VLF-B100	VCF-A100	VCF-B100
VLF-A250	VLF-B250	VCF-A250	VCF-B250
VLF-A500	VLF-B500	VCF-A500	VCF-B500
VLF-A1000	VLF-B1000	VCF-A1000	VCF-B1000
VLF-A2000	VLF-B2000	VCF-A2000	VCF-B2000
VLF-A5000	VLF-B5000	VCF-A5000	VCF-B5000

Machine Pictures



Benchtop type liquid filler Benchtop type cream filler



Standing type liquid filler Standing type cream filler

Electrical-pneumatic driven or pneumatic driven type can be chosen according to your requirement.

Parameters

Model	Filling Range	Ideal Filling Range	Filling Error	Capacity (per min)	Other Parameters
VLF-100	10~100ml 0.35~3.53oz	20~100ml 0.71~3.53oz	±0.5%	20~38	Power Supply: AC110/220,50Hz Power: 25W Air Supply: 0.4~0.6MPa 58~87psi Air Consumption: 0.28 - 0.70m ³ /min
VLF-250	25~250ml 0.88~8.82oz	50~250ml 1.76~8.82oz	±0.5%	18~30	
VLF-500	50~500ml 1.76~17.64oz	100~500ml 3.53~17.64oz	±0.5%	15~22	
VLF-1000	100~1000ml 3.53~35.27oz	200~1000ml 7.05~35.27oz	±0.5%	10~18	
VLF-2000	200~2000ml 7.05~70.55oz	400~2000ml 14.11~70.55oz	±0.5%	7~13	
VLF-5000	500~5000ml 17.64~176.37oz	1000~5000ml 35.27~176.37oz	±0.5%	5~8	

VLF series and VCF series share the parameters above.

VLF series is suitable to fill low density liquids (0 - 3,000 cp ----- viscosity roughly from pure water to shampoo)

VCF series is suitable to fill low to high-density liquids (3000 - 80,000 cp ----- viscosity roughly from shampoo to butter)

For Different Containers



Fill Different Materials--Customized Machine



Filling Different Shapes--Customized Nozzle



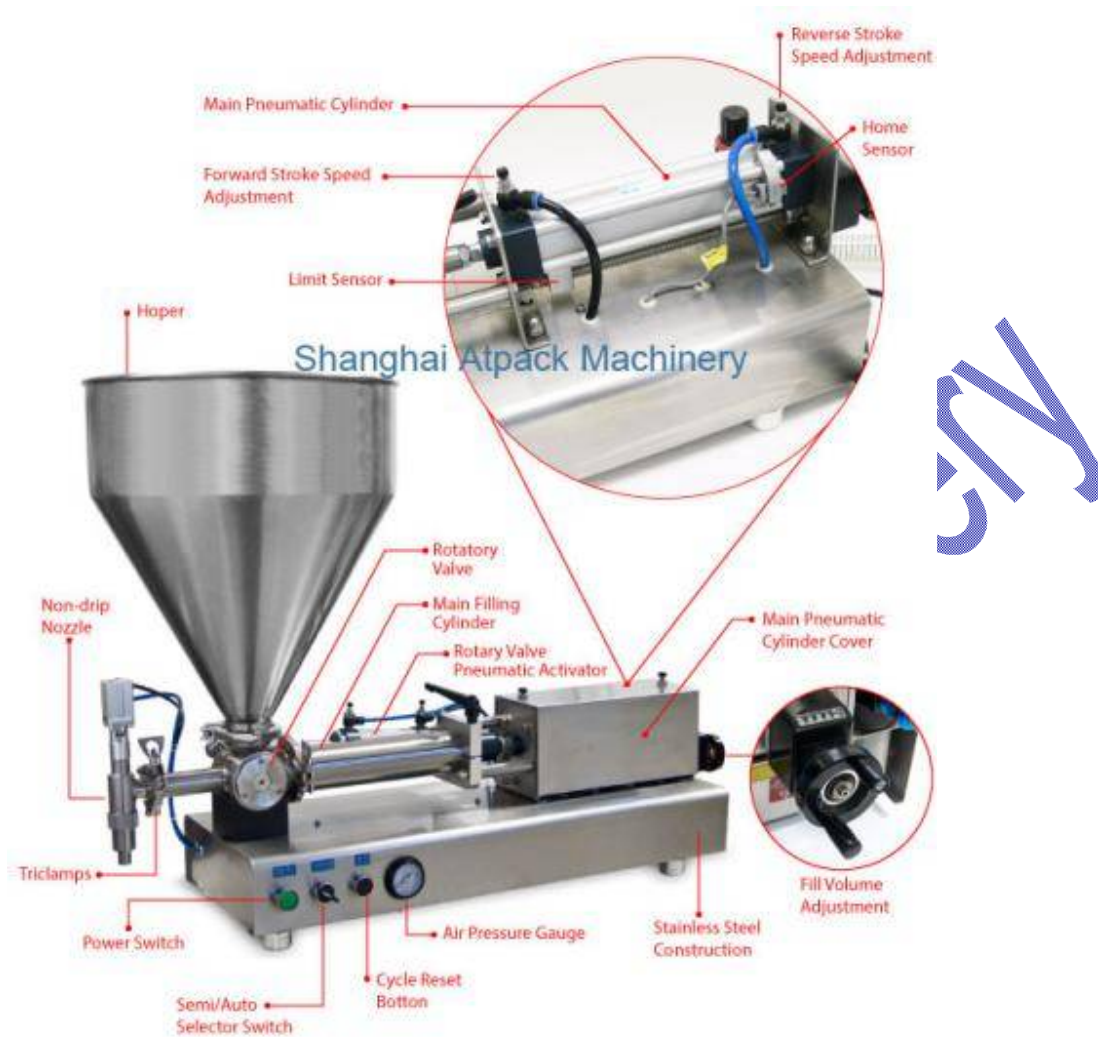
Machine Details



Special Made



Machine Operation & Adjustment



Cream type

Adjustment:

Filling speed adjustment----Forward stroke speed adjustment
Sucking speed adjustment----Reverse stroke speed adjustment
Filling volume adjustment----Fill volume adjustment

Video Links

Liquid filler:

Operation

<http://cloud.video.taobao.com/play/u/2711083401/p/1/e/1/t/1/52535176.swf>

Our liquid filler can fill liquid and moderately dense liquids (such as shampoo, lotion, dish wash tec.)

Video of liquid filler to fill dish wash

<http://cloud.video.taobao.com/play/u/2711083401/p/1/e/1/t/1/52511833.swf>

Filling accuracy test—liquid type

<http://cloud.video.taobao.com/play/u/2711083401/p/1/e/1/t/1/52496955.swf>

Cream filler:

Operation

<http://cloud.video.taobao.com/play/u/2711083401/p/1/e/1/t/1/52550253.swf>

Filling accuracy test—cream type

<https://www.youtube.com/watch?v=hOytXKF9YsY>

Videos of how to disassemble the filler will send to you once you get our machine.

Johnson Zhang
International sales manager
Shanghai Atpack Machinery Co.,Ltd.
Whatsapp/Mobile: 0086-15939767387
www.atpackcn.com
E-mail: johnson@atpackcn.com