

Automatic Piston Filling Machine (Oils)

FILLING MACHINES

PISTON

4 / 6 / 8 HEAD

HEAVY DUTY



OUTPUT CAPACITY

50-100 / min

FILL VOLUME RANGE

50 ml - 5 L

VOLUMETRIC ACCURACY

+/- 0.5%

CONTACT METALLURGY

SS 304 / SS 316

CORE PRINCIPLE & AUTOMATION DESIGN:

Heavy-duty piston filling for edible and non-edible oils, lubricants and thicker free-flowing liquids.

1. TECHNICAL OVERVIEW & MACHINE WORKING PRINCIPLE

Engineered specifically to tackle surface tension, dripping and container variety in lubricant and edible oil packaging plants. Heavy-gauge pistons with Teflon wiper rings provide positive volumetric displacement, while deep drip pans and positive-closing shutoff nozzles keep containers pristine.

2. TECHNICAL PARAMETERS MATRIX

SPECIFICATION PARAMETER	ENGINEERING STANDARD / RANGE
Output Rate	50 to 100 bottles / min (volume dependent)
Fill Capacity	50 ml up to 5000 ml
Container Compatibility	Glass, HDPE bottles, PET jars, Tin cans, J
Volumetric Error	Within +/- 0.5% standard
Contact Metal	SS 316 (pharma/food) or SS 304 (industrial)

3. MECHANICAL CAPABILITIES & FEATURES

Key Mechanical Inclusions:

- + Large-bore cylinders capable of handling up to 5-litre bulk jerry cans
- + Bottom-up diving nozzle stroke with programmable ascent speed
- + Pneumatic drip collector tray underneath nozzle line
- + Adjustable conveyor rails accommodating square tins and round PET bottles

Tested Products & Viscosities:

- Automotive engine oils, gear oils & brake fluids
- Refined edible sunflower, mustard & groundnut oils
- Transformer oils, hydraulic fluids & coolants
- Agricultural spray oils & liquid bio-fertilizers

TARGET INDUSTRIES & COMPATIBLE FORMULATIONS:

Oil | Agro Chemical

Tested Formulations: Automotive engine oils, gear oils & brake fluids, Refined edible sunflower, mustard & groundnut oils, Transformer oils, hydraulic fluids & coolants, Agricultural spray oils & liquid bio-fertilizers

FACTORY ACCEPTANCE TESTING (FAT) & CGMP VALIDATION PROTOCOL

Manufactured under Schedule M and cGMP guidelines with sanitary mirror-polish SS 316 / SS 316L contact metallurgy. Clients and procurement engineers are welcome to our Wagle Estate, Thane factory for pre-dispatch Factory Acceptance Testing (FAT) with actual product containers and fluids. Full IQ/OQ qualification documentation and turnkey on-site SAT commissioning supported across India.

MANUFACTURING PLANT (THANE, MUMBAI):

Filltech Packaging Machines (Formerly BVS Pharma)
115, New Modella Industrial Estate, Padwal Nagar,
Wagle Industrial Estate, Thane 400604, Maharashtra, India

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Engineering Portal: <https://filltech.in>

FACTORY ACCEPTANCE & VERIFICATIONS:

Pre-Dispatch FAT: Container Trials at Thane Works
Verified Supplier: IndiaMART | TradeIndia | ExportersIndia
Machinery Trial Videos: [@FillingMachinesIndia](https://www.youtube.com/channel/UCFillingMachinesIndia)