

AV3 Single Cylinder Volumetric Filling Machine



For the filling of liquids, creams, pastes, and
suspensions from 5ml to 1250ml

Precision, Volume Adjustable, Filling Machine: AV3-1C

We proudly manufacture liquid filling systems that enable you to consistently dispense your product from source to consumer- ready containers.

Our AV3-1C is a simple-to-operate, single cylinder filling design with performance that easily adapts from the most delicate of products to more heavy-duty and robust product ranges. It has an industry proven reputation for reliability and ease of cleaning. The versatility of this machine is enhanced by its interchangeable components such as valves and nozzles enabling you to continue to meet the requirements of your product and the standard it demands. ASSET are the original designers of the revolutionary rotary valve system which is a standard feature on this machine enabling compact volume adjustment and cylinder assembly.

The valve and nozzle choices can handle anything from thin liquids to creams and thick pastes, even products with soft suspended solids. As all of these components are interchangeable, it provides a vast combination of options without the expense of purchasing separate machines, further facilitating the ongoing development and growth of your product lines.

Although designed primarily for trolley mounted semi-automatic operation, the AV3-1C design readily lends itself to incorporation into automatic conveyor-line filling, or specialised automatic filling applications.

The stroke adjuster, air cylinder and product cylinder drive assembly are enclosed by a safety-interlocked polycarbonate cover for your safety.

All our product lines, our components and machines are bespoke and manufactured in-house allowing for your unique requirements to be met with the final design unique to you.

Specifications

- **Dimensions:** W 820mm x D 330mm x H 300mm
- **Weight:** (approx.) 35kg
- **Air pressure required:** 600KPa
- **Air consumption:** 10CFM

Additional Options

- Additional sizes of interchangeable product cylinder and piston assemblies
- Stainless steel trolley with lockable castor wheels
- Footswitch circuit for hands-free one-shot filling
- 25L or 50L stainless steel product hopper
- High temperature spool / food valves for filling of hot liquids over 85°C
- All pneumatic, flameproof operation suitable for use with flammable products
- PLC controlled pneumatic drives
- Various nozzle configurations (e.g. liquid, cream, suck back, positive shut-off (PSO), vacuum PSO, screen, plug)
- Bottom-up fill
- Auto conversion for conveyor systems with features of 'no bottle/no fill' safety device and container gating
- Upgrading to 2000mL product cylinder model



Standard Features

- Heavy duty pneumatic product cylinder drive system
- Integral 304-grade stainless steel base and cladding for bench, or trolley, mounting
- Suitable for cleaning with a warm water hose-down
- Wetted parts (i.e. components that are in contact with your product) are manufactured from 316-grade (i.e. food & pharmaceutical grade) & food-grade engineering plastics
- Product piston fitted with o-ring energised polymer glide ring seal
- Quick-connect triclover product inlet / outlet fittings
- Individual fill-speed and recharge-speed controls
- Asset rotary product valve system provides a positive valve seal, unaffected by product supply head height
- Available in 50mL, 125mL, 250mL, 750mL, 1250mL product cylinder models, all infinitely adjustable between 10% and 100% of their rated volume, with facility to interchange different cylinder sizes
- Product cylinder and valve dismantles by hand for ease of cleaning - no tools required
- Volume adjustment (whilst running) by single hand wheel
- Filling accuracy $\pm 0.5\%$ or better

ASSET PACKAGING MACHINES

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