



InLine Volumetric Filling System

The Pacific InLine Ratioflo Filling System has been the “filler of choice” in the 16-ounces to 1-gallon edible and automotive oil industry for the past 25 years. The Ratioflo® Volumetric Modules continue to perform after that length of time and offer fill accuracy rates of $\pm 1/4\%$ or better. Similar performances can be expected for any application, regardless of the product or container size.

Ratioflo® Volumetric Modules (RVM) employs a proprietary free-floating piston design that utilizes the supply pump to deliver product directly to the unit. The PLC provides an analog output that controls the pump speed, thus allowing the filling speed to be easily regulated. RVM's are available in both standard and 3A sanitary construction with CIP capabilities.

The design accommodates any size or style container without the need for change parts. Both top and bottom-up fill options are available with a wide selection of drip-free, laminar-flow nozzle designs. Container handling features include dual-gate indexing, neck-clamp positioning, centering bells and a photoeye thru-beam “flag” system for no-container/no-fill performance.

Models are available in two to ten station configurations with our dual-lane model offering production rates up to 125 BPM. Machines are furnished standard in all stainless steel tubular frame construction with sanitary conveyor designs and wetted parts.



Ratioflo® Volumetric Modules are available in a variety of sizes that are customized for the user application and production rates.

Standard construction is 304 stainless steel. The units are also available in 316 stainless steel and 3A sanitary construction.

The fill volume is determined by the stroke setting of the free-floating piston and the number of times the module is actuated in order to achieve the fill volume.



Product is delivered with a standard pump and variable frequency drive to a multi-place product manifold. The pressure within the manifold is controlled and, in turn, delivers the product to each of the Ratioflo® Volumetric Modules.

The pump speed is controlled with an analog signal that may be programmed to provide either a constant flow or a variable-rate-of-flow.

Centering bells combined with a thru-beam flag sensor system provide accurate container positioning and "no bottle/no fill" performance.

An optional vacuum drip collection system can be utilized to maintain a clean and drip-free operation.

During cleanout operation, an optional clean-in-place catch tray system can be set in position to capture and drain cleaning solutions.

For higher speed applications, Pacific's Dual Lane Models offer production capabilities up to 125 containers per minute with minimal changeover time.



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