Filamatic
Your Specialist in Liquid Filling
Filamatic, a division of National Instrument, LLC, has been serving the pharmaceutical, biotech, healthcare, contract packaging, cosmetic, chemical specialty and food industries since 1950. We provide a wide range of equipment that can be customized to suit your unique application and budget.

We meet the ever changing demands of our customers by providing high performance, reliable liquid filling systems that deliver value, accuracy, faster changeover, and low total cost of ownership year after year. Today as always, the heart of our business lies in the strong and lasting relationships we enjoy with our customers.
Filamatic Piston Pumps

The Heart of the Filling System

Filamatic's positive displacement piston pumps are designed to repetitively dispense preset volumes of fluids with a high degree of accuracy. The pumps are interchangeable up to the rated capacity of the filler and are available in a variety of models. Some features include:

- Fills liquids including molten products, injectables, corrosive chemicals, and shear sensitive products
- Accuracy to ± 1/10% or better
- Self-priming
- Easy to disassemble and clean; fully autoclavable
- Fills from floor level drum, overhead supply, or pressurized reservoir
- Sanitary pumps are available that meet pharmaceutical and cosmetic good manufacturing practices
- All metal product contacting parts are fabricated of type 316 or 316 L stainless steel

Sanitary Filling Units
Ideal for Pharmaceutical & Cosmetic Applications

For applications requiring frequent cleaning and product changeover, non-threaded type SAN/TP Filling Units or Series DUS Filling Units offer the advantage of quick and easy disassembly and assembly.

How It Works
A Closer Look at the Piston Pump

Product is supplied to the Filling Units from a floor level reservoir, an overhead supply or a pressurized source. Downward motion of the piston [1] creates a vacuum in the pump chamber (4), thus opening the intake valve (2). A preset volume of liquid then flows from the supply source into the pump chamber. Upward motion of the piston [3] closes the intake valve (2) and opens the discharge valve (3). Liquid is then discharged from the nozzle. (5) A graduated micrometer control (6) adjusts the piston travel, and thus the volume of liquid dispensed per stroke.

Built To Order, Built To Last