



# Metering Pump Technologies

for Precision Auto Dosing



## What is a Metering Pump

### *Defined by Function*

A controlled volume, typically positive displacement pump, which will accurately transfer a predetermined volume of fluid (liquid, gas, or slurry) at a specified amount or rate into a process or system.



#### **Positive Displacement**

Multiples of a fixed volume.



#### **Accurate & Repeatable**

Flow rates within 1%.



#### **Adjustable Volume**

Control is typically inherent in design.



#### **Rotating and Reciprocating Design**

Although rotary configurations are increasingly applied.



#### **Wide Range Compatibility**

Including corrosives, abrasives, viscous fluids and more.



#### **Pressure Tolerance**

Sufficient to permit injection of liquids into processes.

## eVmP Features

**Valveless Design** - No valves to clog, hang up or service

**One Moving Part** - ceramic piston which accomplishes all fluid control functions

**Ceramic Internals** - dimensionally stable for long-term, drift free operation

**Inert Fluid Path** - Ceramic / Fluorocarbon compatible with wide range of chemicals (acids, bases, solvents)

**Positive Displacement** - Pressures to 100 psi. Pressure independent

**Viscosity Independent** - positive displacement design will maintain accuracy & precision with varying viscosity

**Self Priming** - 15 ft. dry (5 m), 30 ft. wet (10 m)

**Flow to 1000 mL/min and Dispensing as low as 3µL**



The electronically Variable metering Pump (eVmP) from Zaxis uses internal ceramics, designed for millions of maintenance free cycles, and drift free accuracy. Valve-less, ceramic internals provide syringe-like precision and accuracy without the throughput limitations or excessive maintenance costs to wear items, or the costly inaccuracy of tubing and diaphragm pumps. Reach out anytime for more information, or if you have a project you would like to discuss!