

PRECISION LIQUID ADDITION DEVICE**ABSTRACT**

An apparatus for delivering an accurate volume of fluid from a supply vessel to a process vessel or system in which a computer-controlled servo motor (30) and pump (18) means are connected with a modified sampling valve (22) with plunger-type injection means to allow complete addition of all metered fluids. The apparatus is particularly useful for addition of pH or viscosity control additives or shading colorants wherein the delivery of small volumes with precision is desired.

Figure 1

This is the replacement sheet

Date: 20 MAR 1997