~~LIQUID~~ FLUID DELIVERY SYSTEM

ABSTRACT

A modular system for enabling a distribution of liquid chemicals comprising a substrate block that includes at least two ports formed in a first major surface of the block and a fluid passageway extending between the two ports. The fluid pathway is preferably a smooth, seamless path where the entire volume of the fluid pathway is directly in line with the desired fluid flow so that fluid flow completely sweeps the entire flow passageway and there are no dead volumes or areas of entrapment in said fluid passageway. A substrate block can be formed from a fluoropolymer using a novel composition and manufacturing process. A sealing assembly is provided that uses a combination of a replaceable insert-type seal with a tongue and groove seal formed into the modular components.

[Figure 2]