

Title of Invention: FLUID DELIVERY SYSTEM

ABSTRACT

A fluid delivery system may include a substrate block having an upper surface; a first substrate port in the upper surface; a second substrate port in the upper surface; a substrate fluid passageway extending between the first substrate port and the second substrate port; a substrate ring defining the second substrate port; and a substrate seal channel formed in the upper surface and surrounding the substrate ring. An outer surface of the substrate ring may form an inner surface of the substrate seal channel. An active component may be selected from a flow controller, a pressure transducer, a flow measurement sensor, a pressure regulator, a valve, and a flow meter. The active component may comprise a lower surface; a first component port in the lower surface; a component fluid passageway; a component ring; and a component seal channel formed in the lower surface and surrounding the component ring.

[FIG. 16B]