

INTEGRATED FLUIDIC MODULE

ABSTRACT OF THE DISCLOSURE

An integrated fluidic module includes a fluid manifold, a valve stator, a valve rotor and a valve housing. The fluid manifold includes microchannels connected to a sample reaction unit, and fluid input channels connected to fluid sources. The valve stator includes at least one groove and plural through holes, at least one groove is connected with at least one of the plural through holes, and parts of the groove and through holes are communicated with the microchannels and the fluid input channels. The valve rotor includes at least one groove. The valve housing accommodates the valve rotor and the valve stator. When the valve rotor is rotated to different positions, at least one groove of the valve rotor is connected with at least one through hole or groove of the valve stator to provide at least one fluid path and enable fluids provided by the fluid sources to be directed to corresponding chambers of the sample reaction unit through the fluid path.

Figure 2