

ABSTRACT

MASS FLOW METER AND MASS FLOW CONTROLLER HAVING THE SAME

A mass flow meter includes a main member and a sensor. The main member has a main channel, a first sensor channel, a second sensor channel, and a chamber. The first and second sensor channels are connected to the main channel and the chamber respectively. The sensor is mounted within the chamber and connected to the first and the second sensor channels, so that the sensor may receive a fluid in the main channel to sense a flow rate of the fluid. The main member further has a pressure chamber, which is communicated with the main channel and the chamber, allowing a portion of the fluid flows into the pressure chamber to maintain internal and external pressure of the sensor at approximately the same level. On the other hand, a mass flow controller having the mass flow meter is also provided.

FIG. 4