Calibrated Flow Rate Sensing and Flow Control Device

Abstract

A fluid flow rate sensor, which may also be the basis of a valve for a fire suppression system, uses a sensing arm to convey motion of an obturation body or a valve closing member to a sensor system which evaluates the motion and generates a calibrated measure of the flow rate and/or an alarm signal in response if warranted. The obturation body and the valve closing member are capable of both rotation and translational motion, both of which are sensed using the sensing arm. The sensor system is isolated from the fluid within the valve.

Fig. 1