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Principles of Operation:

The flow switch accurately detects increasing or decreasing flow rates and actuates an integral reed switch at a specific flow rate set point. Increasing flow rate creates a slight differential pressure across the control orifice, and acts on the sensing poppet. When differential pressure overcomes the spring force, the sensing poppet is extended, and the encapsulated permanent magnet actuates the hermetically sealed electrical (reed) switch. The spring provides a positive reset of the switch as the flow rate is decreased. The metering screw varies the control orifice, thereby allowing the flow rate set point to be infinitely adjustable.

The electrical switch is magnetically coupled to the sensing poppet. The electrical switch is completely isolated from the flow stream by a seamless stainless steel barrier.

The permanent magnet is totally encapsulated within the sensing poppet, isolating the magnet from the flow stream. The sensing poppet is constructed of 316 Stainless Steel which is highly resistant to even the most aggressive chemical action.