

Control valves with no potentiometer feedback

APPLICATION A159

Type of Company: [Manufacturer, Valves](#)

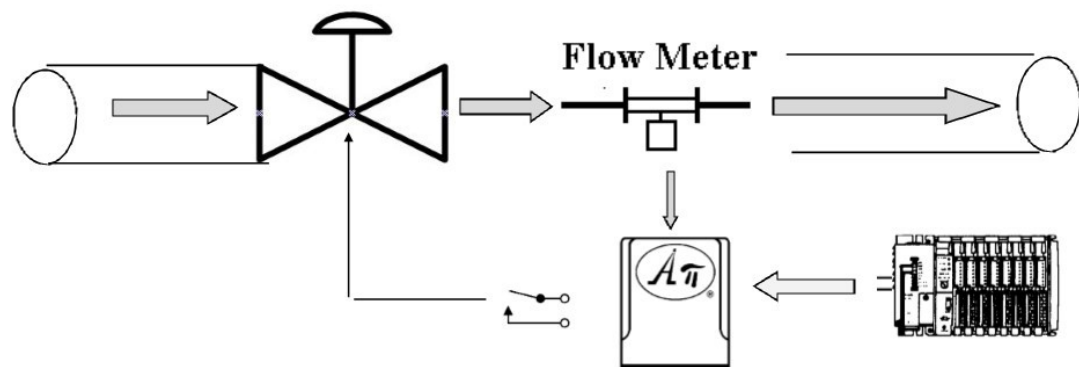
Location: [Virginia](#)

Valves are found in virtually every industrial process, including water and sewage processing, mining, power generation, processing of oil, gas and petroleum, food manufacturing, chemical and plastic manufacturing and many other fields. A control valve is a valve used to control fluid flow by varying the size of the flow passage as directed by a signal from a controller. This enables the direct control of flow rate and the consequential control of process quantities such as pressure, temperature, and liquid level. A valve actuator will typically have the valve position and condition monitoring in an integral unit mounted on the valve body.



The Engineering Issue

- The engineer has a requirement for a more precise feedback system enabling more accurate control of flow thru the valve.
- They will be using a 4-20 mA signal from an inline flowmeter for the feedback system.



The engineer used an API 3200 G M420. The API 3200 G M420 accepts the 4-20 mA control signal from any PLC (Honeywell, ABB, Foxboro, etc.), accepts the 4-20 mA feedback signal from the flow meter, and has a mechanical relay contact closure that will open and close the valve. The result is more accurate control of flow thru the valve.

Problem. Solved.

