

API-Cecom Group *n'fo*

Technical & Application Note A159

Application: Control valves with no potentiometer feedback

Type of Company: Valve Manufacturer

Location: Virginia

Problem: The customer is an manufacturer that produces valves, valve actuators and control systems for potable water, wastewater, power, industrial, and nuclear market applications. Their customers use various PLC's (i.e. Honeywell, ABB, Foxboro, etc.) to control their valves but are now requesting a more precise feedback system for more accurate control of the flow thru the valve. The engineering department for the valve manufacturer has recommended using a 4-20 mA control signal from the PLC and then a 4-20 mA signal from an inline flow meter instead of using their existing linear potentiometer signal from the valve actuator to solve their customers request. Their solution was to provide our signal conditioner with a 4-20 mA control signal from a PLC, accept a 4-20 mA feedback signal from a flow meter and have a mechanical relay contact closure that will open and close the valve.

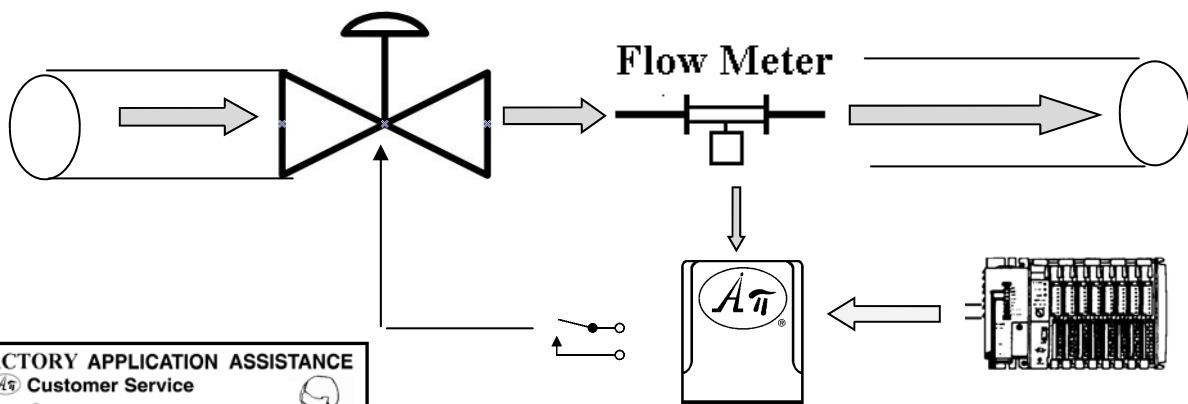
Solution: API furnished the customer an API 3200 G M420. The API 3200 G M420 accepts the 4-20 mA control signal from PLC, accepts the 4-20 mA feedback signal from the flow meter and has a mechanical relay contact closure that will open and close the valve. The end result is more accurate control of the flow thru the valve.

Note: An alternate solution is to use the APD 3200 M420



API 3200 G M420

Valve Positioner/Actuator/Controller



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