Automatically control air damper position
APPLICATION A106

Type of Company: Asphalt Plant
Location: Illinois

Asphalt manufacturers produce several different types of mixes for many different applications. The manufacturing process requires that both a gas fired burner and an air damper be accurately controlled. It is important that both track properly so the desired operating temperature can be maintained and consistent product can be produced.

Photo by Sonaz

The Engineering Issue

- The engineer has a requirement to match the air damper position to the gas valves position.

- The damper control signal from the gas valve controller must be changed to a mechanical relay contact closure that will operate the damper motor to open and close the air damper.

Controller

Damper Feedback Signal
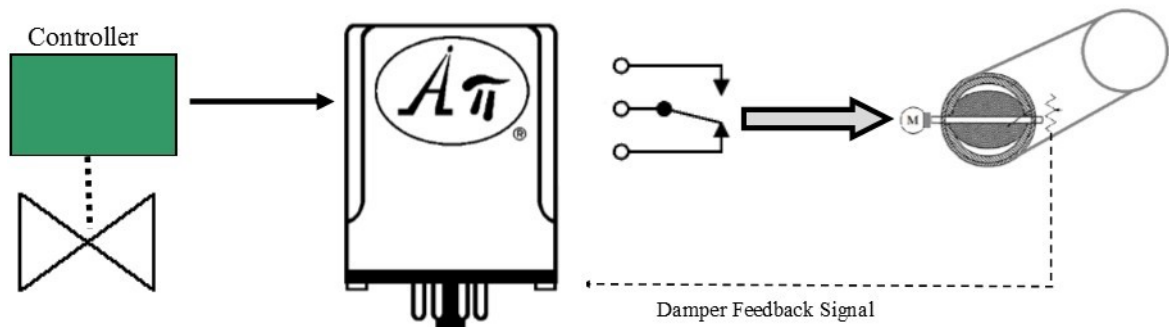
The engineer used an API 3200 G to convert the signal from the gas valve controller. The API 3200 G accepts the 0-1 VDC damper control signal from the gas valve controller and accepts the damper feedback of its position via a potentiometer. The end result is automatic control of the air damper to match the position of the gas valve.

Problem. Solved.