

Demand Moore Reliability

535 Controller Prevents Water Pump Burnup

A major supplier of pork uses the 535 controller to run a critical water pump. The flow input to the controller was erratic and which was causing the pump to oscillate and change speeds rapidly. This resulted in several costly process upsets and shutdowns due to pump repairs and replacements.

One way to deal with an erratic PV is to use the input filter function of the 535. In the PV INPUT menu there is a prompt for FILTER where you can select the time constant from 0 to 120 seconds for a single-pole low pass digital filter. After using this input filter and re-tuning the controller, efficient pump control and process improvements followed.

