Many industrial plants spend tens of thousands of dollars on instruments for accurate air monitoring measurements. Millions of dollars can be spent on control systems.

**ACCURATELY CONTROL AIR/FUEL DAMPERS**

Unfortunately, in many instances, little attention is given to the accuracy of positioning air/fuel dampers in process heaters, furnaces and boilers located throughout the plant.

Dampers can move more than 2000 times a day to maintain steady state excess oxygen and draft at the burners. However, precise damper positioning is difficult with pneumatic actuators due to “stick/slip” and compressibility of instrument air.

In addition, while a brand new damper will open and close smoothly and quickly, as it ages it can start to “stick” or not move smoothly.

**SOLUTION: HERCULINE ELECTRIC ACTUATORS**

Honeywell minimizes these problems with its Herculine Electric Actuator solutions that give precise damper positioning and accurate position feedback.

- They require minimal maintenance and can be operated under direct digital control.
- The torque of the Herculine Actuator is great enough to overcome any “sticky” movement and still provide precise control.

While most control systems will work well when the system is new, the Herculine will overcome the issues related to aging.
APPLICATIONS

Honeywell’s Herculine Electric Actuator Solutions are ideal in the following situations:

- If your process heaters, furnaces and boilers need to comply with the Clean Air Act for NOx and other emissions.
- If your NOx emission excursions during startup, shutdown and upset conditions are costing you thousands of dollars in fines.
- If your current solution provides accurate measurement and control, but falls short on precise damper positioning.
- If unsightly stack emissions are causing community ill-will.

The Honeywell Advantage

Herculine Electric Actuator Solutions provide outstanding damper control in a variety of applications. They give precision damper positioning and accurate position feedback. They require minimal maintenance and can be operated under direct digital control.

USING HERCULINE ELECTRIC ACTUATORS WILL HELP YOU:

- Control excess air and draft for maximum fuel efficiency
- Comply with Clean Air Act requirements
- Reduce emission excursions at startup, shutdown and during upset conditions
- Predict maintenance, service scheduling better
- Reduce maintenance requirements to maintain compliance

HONEYWELL'S HERCULINE ELECTRIC ACTUATORS FEATURE:

- Precise damper positioning with high repeatability and minimum deadband
- High temperature ratings and robust design
- Local display and keypad for simplified setup and calibration
- Accurate indication of damper position
- Ability to operate under Direct Digital Control
- Actuator “health” diagnostics
- Minimal maintenance required