

## Actuator Application Brief - Cement/Lime Manufacturing Applications



### Industry Background

The manufacture of Cement and Lime are processes which take raw materials such as limestone, silica, gypsum and alumina and then heat/cool, grind and mix them to develop the finished product. Actuators are a prominent component throughout the manufacture process in both modulating and open/close applications.

### Contacts

- Plant Manager/Supervisor
- Maintenance Manager/Supervisor
- Electrical Supervisor

### Applications

**Baghouse/Dust Collection Damper** - Actuator to control the pressure of the filtering systems on any of the crushing or grinding equipment.

**Clinker Cooler Damper** - Actuator to modulate the rate of cooling of the clinkers (small rocks of the mixed and heated raw materials) after they exit the lower end of the kiln.

**Gas or Fuel Oil Flow Control Valve** - Actuator to control the temperature profile of the kiln.

**Induced Draft Fan Damper** - Actuator to control the flow of air out of the kiln.

**Bleed-In- Air Flow Control Damper** - Actuator to control the kiln pressure from a auxiliary level.

**Clay/Rock Drying Damper** - Actuator to control the hot air drying of clay and rocks.

**Firing End Air Flow Damper** - Actuator to control the air flow rate to the burners and registers in the firing end.

**Fluid Coupling Drive On Variable Speed Fans** - Actuator to control the speed of the fans via a variable speed hydraulic coupling.

### Selling HINTS

The Honeywell HercuLine<sup>®</sup> actuators fit well into the above Cement/Lime applications. This is because our actuators, when installed in these applications, position accurately for long periods of time with little or no maintenance attention. The features that the contacts require are high temperature limits, adequate torque to overcome stall situations, and reliable, maintenance-free service in harsh environments. Honeywell actuators meet these customer expectations.

### Competition

The main competition in this application will be against Beck. Beck has established their product as a standard offering through the major Cement/Lime OEM's such as Fuller Company, Polysius, and Humboldt Wedag. The equipment advantage Honeywell has over Beck is price and discounting. Beck does not offer any OEM discount to their customers and they are typically much higher in price. The corporate advantage that Honeywell has over Beck is the local support of our Sales and Service organization.

**More Information**

For more information on Actuators, visit [www.honeywellprocess.com](http://www.honeywellprocess.com), or contact your Honeywell account manager.

For more information on OPC Server for Modbus, visit [www.matrikonopc.com](http://www.matrikonopc.com)

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