

Rotary + Linear Damper Drives

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Visit us at: www.typek.com

At TYPE K, We Sell Solutions!

In the United States, our damper drive products are sold through a network of exclusive manufacturers' representatives. TYPE K Damper Drives representatives are always process control instrumentation equipment based. Currently many of our representatives also represent Yokogawa and Siemens Energy & Automation instrumentation products. TYPE K Damper Drives is a customer-driven company! The TYPE K damper drive concept was conceived by a customer, an I & C Technician at a utility power plant in Kansas. This technician needed someone to provide a replacement damper drive that included everything. Ideally, the replacement drive would simply drop into the place vacated by the existing Bailey electric damper drive. This customer repeatedly told us that he did not want just an actuator. He wanted a damper drive mounted on a frame that would exactly match the existing mounting dimensions and a drive that would permit a quick change-out of the existing defective damper drive. Thus, TYPE K Damper Drives was begun because of this wonderful suggestion from an end user with major damper drive problems.

This first TYPE K Damper Drive was quickly followed by another, and another, until ultimately we replaced every damper drive in the plant.

Just What is a Damper Drive and What Does it Do?

Damper drives are designed to control the position of dampers, which are used to regulate the flow of combustion air or other process gases. Damper drives can be found in a variety of applications in both boiler control and many other process applications. TYPE K's principal experience has been to replace existing high maintenance damper drives in both utility and facility power plant applications. However, it is significant to note that wherever large volumes of air or gas flow are being regulated there is likely to be a damper drive involved.

Some typical applications are:

- Utility and facility power plants
- Steel mills
- Power plants in pulp & paper mills
- Fired heaters used in petrochemical and refinery plants
- Package Boilers
- Wastewater treatment plants-pond aeration

The Retrofit Concept

TYPE K Damper Drives are engineered for each application, which means that all our customers have to do is to install the unit. Users don't need to worry about making mounting frames as is typical with competing products like the Beck drive, or worrying if the replacement will actually fit into the existing space.

TYPE K Damper Drives

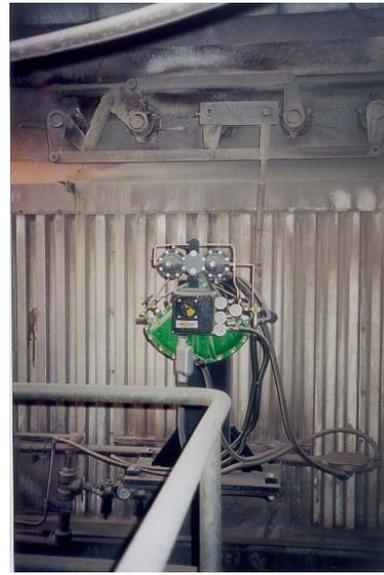
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BEFORE



AFTER

We design retrofit drives to accommodate local conditions, i.e., like locating the drive to allow easier access by plant technicians. Note that in the After Photo above, the drive is located so that plant technicians can easily get to and calibrate the positioner.

Type K Damper Drives include some very important user features that can save money and eliminate repetitive failures.

Features of the TYPE K Damper Drives:

- TYPE K Damper Drives can operate with up to 150-psig supply. We can use a smaller drive operating at a higher pressure to produce the same or more operating torque than the competition.
- Wide range of available torque ranges from 90 to 10,416 ft. lbs.
- Built-in 4-20 mA position feedback (almost a must with today's sophisticated DCS control systems) and up to (6) limit switches.
- High temperature construction to allow operation in ambient temperatures up to 300°F.
- Custom mounting arrangements include: floor pedestals, platform, direct bolt on, direct weld-on.

The Type K Custom Retrofit Concept is the most user-friendly way, available today, to replace worn-out, out moded damper drives.

Basic Engineering & Technical Features

The simplicity of the design of the Type K drive is a very important feature and once explained and demonstrated to users, particularly to I & C Technicians (these are most likely the plant people with the problems), usually results in a request for a quote.

Our design features only one moving part—the actuator vane - and:

- Will operate for millions of cycles.
- Is guaranteed for three (3) years.
- Infinitely much simpler than electric drives (no gear box to bid or fail).
- Will operate in a temperature range from -40°F to +300°F.
- Is custom engineered to mount and to fit local conditions and match existing drive.
- The C-400 Positioner is the most accurate, flexible and easiest to calibrate positioner available in the industry anywhere at any cost.

TYPE K DAMPER DRIVES are truly the most efficient, reliable, versatile and universal drives available on the market today.

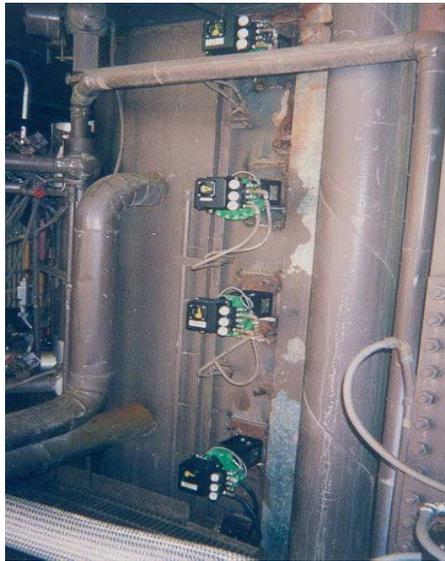


Photo shows an installation on the windbox of an Alstom Power Boiler. This is usually a very hot location where electric drives are most likely to fail due to excess heat.

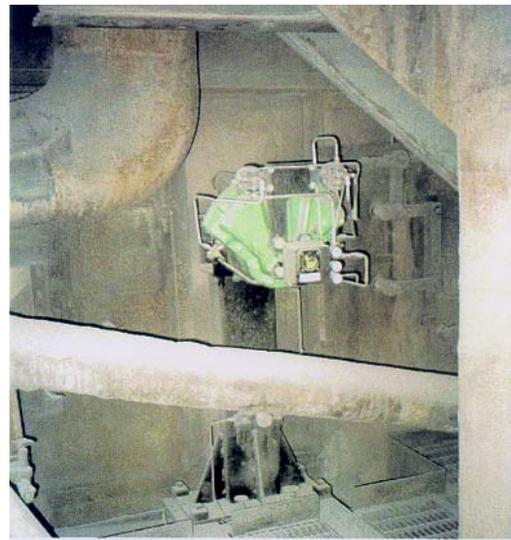


Photo shows just how well our NEMA 4X Approval holds up under some very harsh environmental conditions. NEMA 4X enclosure rating prevents coal dust and fly ash from getting inside.