

Damper Control

TECHNICAL DESCRIPTION OF APPLICATION

Through common usage, a damper is a device with a variable orifice which controls the flow of combustion air into and out of a boiler. The demand for lower emissions and reduced fuel consumption has raised the control specification for damper applications. No longer does a damper only move upon major load changes. Modern control schemes call for high duty cycle and a modulating resolution of better than 1%. By providing precise positioning, **REXA** drives increase combustion efficiency to meet stringent standards and still reduce operating costs. The high stiffness of Electraulic technology guarantees that the damper is controlled by the signal and not the process.

TYPICAL CONFIGURATIONS

APPLICATION	PRODUCT
Auxiliary Air Damper	Rotary; Linear-side pivot
Wind Box	Drive
ID or FD Fans	Drive; Linear-end pivot
Scrubbers	Rotary

MAJOR ADVANTAGES OF REXA

Although the well known drive has proven to be adequate in most cases, an alternative selection may be conventional linear or rotary actuators. The **Xpac** offers all three configurations. With this flexibility of product, **REXA** is able to provide the best solution to damper applications and not be limited to a strict drive profile. Rotary and end pivot linear drives can provide a faster, more compact, and less expensive product. An outline drawing of an end pivot linear drive is shown on the reverse.

- Product flexibility; Drive, Linear—end or side pivot, Rotary
- High Stiffness
- Small size
- Fail-in-place
- Total Electric