G3 Damper Drive Modules

Replace floor standing drives with Kinetrol

OUTPUT LEVER - Dimensions are customer

specified to facilitate direct interchange when

Kinetrol drive is replacing an existing drive. (Please

Note: Safety measures such as guarding, should always be in place to ensure that the moving lever

cannot cause injury to anyone within the vicinity).

ROBUST HOUSING - Protects and seals critical

bearings that are greased for life. Unaffected by coal

KEY FEATURES

- Long maintenance-free life
- 2 million operations warranty
- Integral manual override compact assembly
- Robust construction with durable finish
- Direct mount control modules
- Same mounting footprint available to replace existing equipment
- Infinite lever arm adjustment Interfaces with existing installations
- Manual override usable with actuator removed
- 40 years actuation experience

OPTIONS

- Double acting and spring fail-safe (open or closed)
- Modulating (3-15 psi and 4-20mA or digital positioning)
- Fail to low signal
- Lock in last position
- Limit switch remote position indication

BEFORE

LEVER LOCKING

infinite angular

lever for ease of

installation.

ASSEMBLY - Provides

dust, fly ash and moisture etc.

adjustment of output

- 4-20mA angle retransmission
- High visibility position indication
- Handwheel extension
- Remote manual override status

SPECIFICATION

CASING - Sand cast LM25 and mild

FINISH - Epoxy stove enamel.

SEALS - Nitrile rubber 'O' ring seals.

TEMPERATURE RANGE

Standard -20°C to 80°C (-4°F to 175°F)

Consult Kinetrol regarding applications outside this range.

*Patent No: US 6,393, 931 B1

G3 Drives are purpose designed solutions to air/gas flow control problems in new or existing burner, heater, boiler and turbine systems in power plants and a wide range of industrial applications.

The patented* G3 Damper Drive units set a new standard for control and durability. Combining the proven performance and reliability of Kinetrol's vane type actuator with an equally rugged integral manual override/mounting frame, the new damper drive is compact and unbeatable when it comes to control accuracy and cycle life.

Kinetrol's vane type rotary pneumatic actuator eliminates the lost motion and wear associated with geared drives and the conversion from linear to rotary motion. This results in a long maintenance-free life (reducing down time and maintenance costs) and improved control (cutting fuel and production costs).

Compatible with all damper types, replacing existing floor mounted pneumatic, electric, hydraulic or electrohydraulic drives could not be easier as Kinetrol's G3's are simple and guick to retrofit.

OPTIONAL LIMIT SWITCH BOX

Gives remote indication of manual

override status. May be used for

inter lock safety system etc.

LATCHING DE-CLUTCH LEVER - Engages

gears for manual operation or disengages

gears for pneumatic operation.

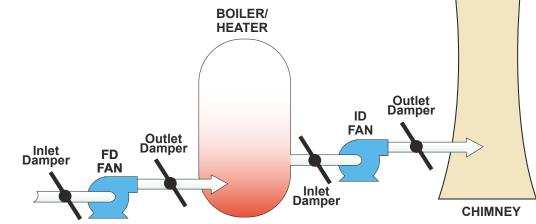
Outlet Damper FD Inlet KINETROL VANE TYPE ACTUATOR - Compact with dual adjustable travel stops and one moving part (no grinding gears or hysterisis) gives high efficiency & reliability. LIFTING EYE - Strong lifting eye for site handling. **ACTUATOR MOUNTING** PLATE-Allows actuator to be removed and refitted without opening up gear HANDWHEEL - The handwheel is available in a range of diameters to suit application torque requirements and can be easily fitted to either side of the gearbox without requiring additional parts.

HANDWHEEL EXTENSION - When necessary a handwheel

extension can be specified to ensure the handwheel is at safe

distance from output lever to avoid risk of operator injury.

An example of the layout in a 'typical' combustion system where Dampers are used for air flow control.



Key Industries Include:

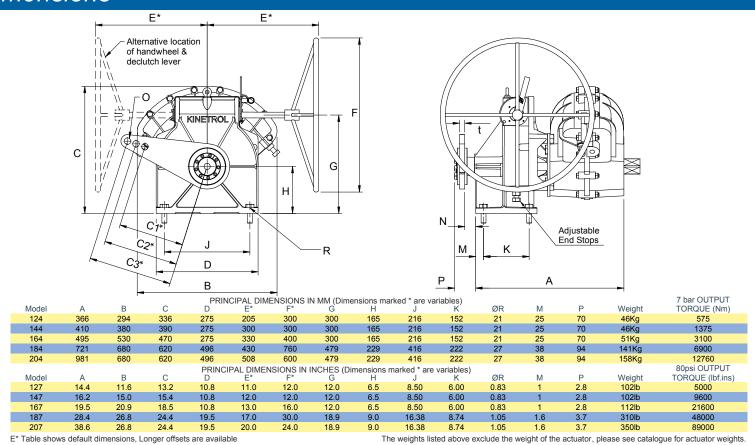
- Power Generation
- Petrochemical
- · Iron, Steel & Metals
 - Cement
- Paper & Pulp
 - Sugar
- Hospitals

Opportunities to put the Kinetrol Damper Drive to Work

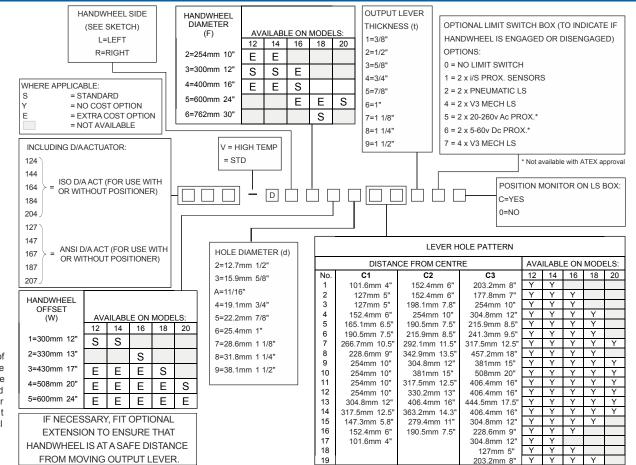
- Crossover Dampers
- Forced-Draft Fan Dampers
- Induced-Draft Fan Dampers
- Fuel Nozzle Positioning Control
- Gas-Recirculation Fan Dampers Hot Air Dampers
 - Primary-Air Dampers
- Secondary (Auxiliary) Air Dampers
 - Tertiary Air Dampers
 - Tempering Air Dampers
 - Variable-Inlet Vane Dampers
 - · Cyclone Air
 - · Pulverisor Air/Fuel Ratio
 - Flue Gas Recirculation
 - · Backdraft Damper
 - · Baghouse Service Gas Turbine Intake & Exhaust

 - Desulphurisation

Dimensions



Ordering Codes



The policy of Kinetrol is one of continuous improvement. We reserve the right to alter the product as described and illustrated without notice. For confirmation of the current specification, contact Kinetrol Limited.

KINETROL

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AIR/GAS FLOW DAMPER DRIVE