

# TRITEX II

ELECTRIC ACTUATOR



**KIMRAY**  
INC.®

# TRITEX II

ELECTRIC ACTUATOR

## INTRODUCTION

The combination of the Tritex II Electric Actuator and a Kimray high pressure control valve provides a precise and reliable method of control. This solution eliminates emissions, provides communications that tie directly into the SCADA system and operates on low power consumption. The Tritex II redefines electric actuation.

### MAXIMUM CONTROL BY DESIGN

The TRITEX II uses a roller screw attached to a servo motor to convert the rotary motion of the motor directly to a linear force. The controls and positioner used in the actuator provide closed-loop feedback, eliminating the need for limit switches, torque switches or any mechanical means of feedback. The electronics provide a 4-20 mA input and output, as well as digital capability. The result is speed, precision and a long-lasting actuator with little to no maintenance.



## KEY DESIGN FEATURES

- Available for all Kimray high pressure control valves 1" - 4"  
*For 6" and above, contact your Kimray representative for application assistance*
- The use of a servo motor to effortlessly move the actuator in any direction for 100% duty cycle
- Class I Div 2 Certification, perfect for outdoor use
- The use of direct feedback and controls to provide perfect positioning at all speeds and forces.
- 12-48 VDC Solar bus capabilities
- Fail safe positioning if low bus voltage limit is reached or loss of signal is detected
- Analog or Digital communications (4-20 mA or MODBUS over RS485)

### TRITEX II ROLLER SCREW

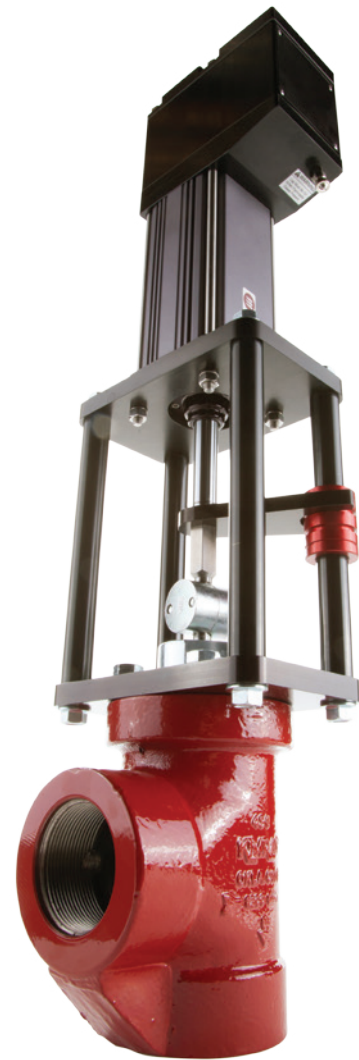
- Direct conversion of rotary motion to a linear force
- High shock resistance
- Extreme efficiency
- Programmable speed and acceleration

### SERVO MOTOR

- High efficiency (90%)
- Position feedback
- Adapts to changing loads
- Faster positioning
- Rapid acceleration
- Reserve power
- Capable of short bursts of peak current to improve positioning
- Quiet
- 100% duty cycle

### TYPICAL APPLICATIONS

- Flow control valve
- Pressure control upstream/downstream/differential
- Choke valve
- Compressor controls
- Gas lift valve
- Dump valve



## SPECIFICATIONS

Input Voltage	12-48 VDC
I/O	4/3 isolated digital 1/1 isolated 4-20 mA
Rating	Class I, Division 2, Groups A,B,C & D
Connection	1/2" NPT
Temp	-40 C to 65 C / -40° to 149° F
Force	Continuous to 872 lbf Peak to 1190 lbf
Stroke	3" max
Speed	Up to 5 in./sec

# WHO WE ARE

Kimray designs and manufactures oil and gas control products. Based on more than 65 years of pioneering product development, we provide products and services that are reliable, smart and inventive. We generate meaningful solutions by staying curious and engaging in customers' needs. Our product ideas are fueled by a deep desire to make a difference that is both personal and unique to the customer.

We have made it our life's work to provide products and services that are positively impactful. Through the years, this pursuit has built strong relationships. Our customers have known that buying from Kimray is about much more than the product. The relationships between Kimray representatives and our customers extend from before the sale through the life of the product. Those relationships, along with quality Kimray products, are the result of a company striving for excellence for our customers, our company and our community.

Visit [Kimray.com](http://Kimray.com) to learn more about our company and the products we create.

