

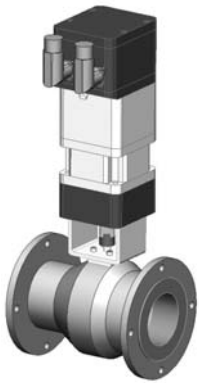
High Performance

Tritex™ Series Electric Servo Valve Actuator

Excellent Pneumatic Replacement

Underperforming control valves will cost a typical process plant tens of thousands of dollars each year. A key reason for this lack of performance is the use of pneumatic actuators.

The Tritex™ Series actuator provides a perfect solution for your valve actuation needs. Small hysteresis and dead band, quick response to small signal changes and stable dynamic response are all key parameters that Tritex actuators deliver. Available in both linear and rotary versions, the Tritex can be mounted on any valve from any manufacturer.

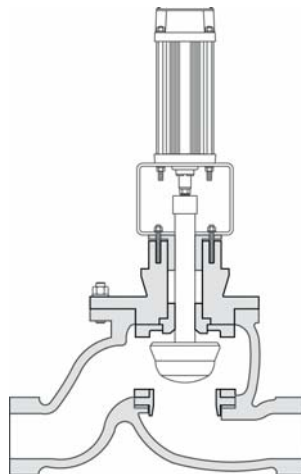


Precise Control

For precise valve control, the flow characteristic should be free of any negative gradients, which tend to make the valve unstable and hard to control. The Tritex Series actuators offer extreme mechanical stiffness, making the actuator's position output resistant to non-linear or changing load conditions such as negative gradients.

Reduced Process Variability

Stiction and backlash in the control valve are the two most common contributors to excess process variability. If stiction is present with a pneumatic actuator, the valve will move too much to overcome it and the process variable will go too far. Then, the controller output will reverse direction and the same thing will happen again. Exlar actuators continuously hold the position of the valve stem or shaft allowing extremely fast response to command signal changes even when stiction is present. This results in improved loop performance and reduced process variability.



High Performance for Sliding Stem Valves

The Tritex linear actuator combines a high performance brushless servo motor, position controller and a specially designed roller screw mechanism for converting electric motor power into linear motion. The higher stiffness of Exlar linear actuators easily allows positioning accuracy of 0.25% or better; in comparison, positioning accuracy of 2 to 4% is typical for pneumatic diaphragm type actuators.

Eliminate Rotary Conversions

The Tritex rotary actuator allows you to directly couple the actuator to the shaft of the valve, eliminating all linear to rotary linkages. With gear reduction ratios up to 100:1, the Tritex rotary actuator can be mounted to most modulating ball or butterfly valves.



Tritex Linear Actuator



Tritex Rotary Actuator

Tritex™ Series Linear Actuator

- Integrated servo motor, controller and actuator
- Stroke speed of 60 mSec (2 inch travel)
- 24 to 48 VDC Power
- Up to 1250 lb thrust capacity

Tritex™ Series Rotary Actuator

- Integrated servo motor, controller and planetary gear reducer
- 60 and 90 mm frame size
- Up to 2078 lbf-in continuous torque

Call us at 952-368-3434!

EXLAR