

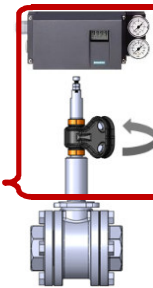
**Easytork's patented actuator design improves on the reliability of pneumatic actuators and simplifies the vane concept so that it's more compact, efficient, and economical than a rack & pinion.**

## More Advanced Control Characteristics For Control Valves

### <0.5% Repeatability (Positioner to Valve Stem)

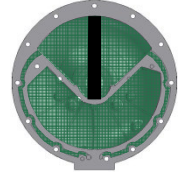
From the positioner to the valve stem, Easytork's test results yielded a <0.5% repeatability. This is on par with other industry leading control valve actuators.

<0.5% repeatability



Fail-Safe Control Valve Setup With:  
Easytork Vane Actuator +  
Siemens PS2

In Fail-Safe Setup, Actuator Still Runs On Double-Acting Principle



### Frequency Response

The frequency response on the EVA is extremely high – generally an order of magnitude better than comparable diaphragm actuator units. Such response is achieved through double-acting configuration (even on fail-safe setups) that uses pressure on both sides of the piston.

### Stiffness and Throttling Control

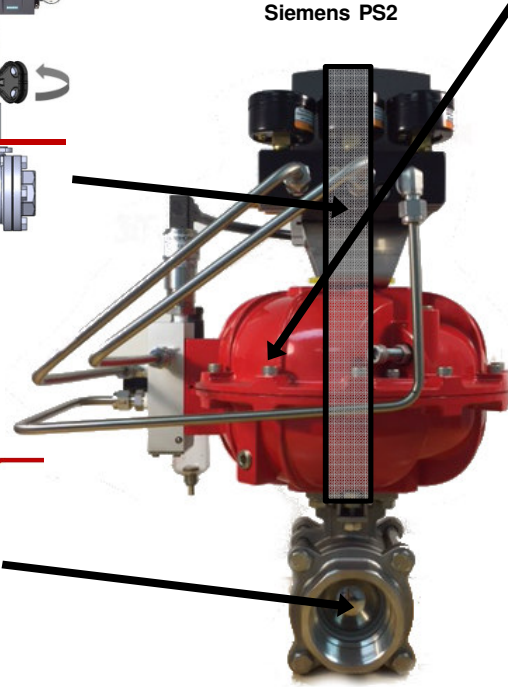
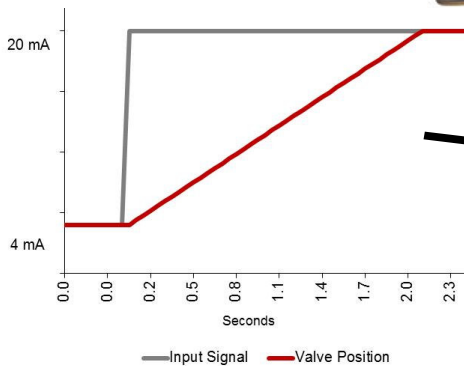
EVA control valve solution with the Siemens PS2 can operate with supply pressure up to 100 psi. Typical diaphragm actuators are limited to 40-60 psi.

Higher actuator air supply, coupled with high-pressure air on both sides of the actuator vane, provide exceptional stiffness for precise throttling control.

High stiffness helps withstand sudden change in dynamic fluid forces acting on valve trim, and would provide better resistance to slam shut on small openings.

### Fast Valve Position Response

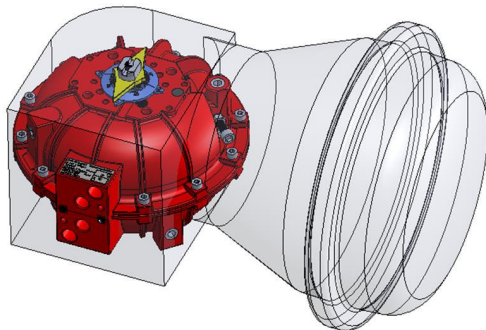
Valve position will quickly reflect input signal. The low air consumption on the EVA produces fast stroking speeds. High operating speed is achieved with virtually no overshoot when approaching the final disc or ball position



## Smaller and 7.5x Lighter Than Comparable Diaphragm Rotary Actuator

### Purer and Simpler Construction

EVA's have one moving part creating pure rotary-to-rotary movement, as opposed to diaphragm linear-to-rotary movement. The reduction of moving parts and construction simplicity helps reduce weight and size while contributing to weight balance on top of the valve.



Size comparison to spring-and-diaphragm rotary actuator

