

# EVA Actuator's Unique Solutions and Benefits

## Predictive maintenance

### Using internal air reservoir for fail-safe

Air reservoirs in fail-safe systems are commonly used to replace springs for large mission critical emergency shut down valves. Spring failure and its performance decay are common occurrences but are hard to detect. Unlike spring actuation, monitoring devices can be installed onto air reservoir fail-safe actuation systems to positively detect performance decay or failure.

## Product reliability

### One moving piece – pure rotary-to-rotary movement

EVA's only have one moving part that creates pure rotary-to-rotary movement. Not only does the simplistic design contribute to better lifespan, the singular moving component simplifies predictive maintenance monitoring. Common off the shelf technology provides for validated automatic detection.

## Product reliability

### Ideal for dirty environment & poor instrument air

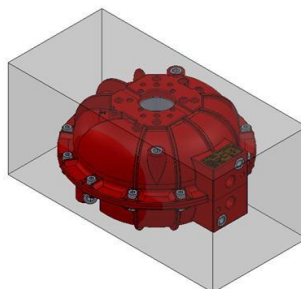
Environment air never enters actuator. Unlike springs, air reservoir fail-safe systems never pulls in environment air into actuator. While clean instrument air is important, Easytork's rugged vane handles poor air supply significantly better than traditional actuators.

## Smaller & lighter than any other actuator

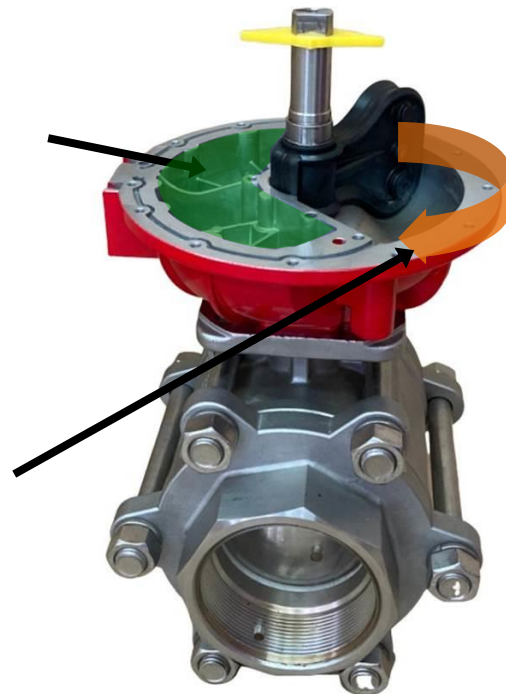
### Smallest and lightest actuator

Spring-return actuators are sized up to compensate for the resistance of the spring, while air reservoir fail-safe actuators do not have to account for spring resistance, as such EVA is the smallest and lightest actuator for any fail-safe application.

Rack & Pinion  
(2 Piston)



Size overlay



12" butterfly valve  
for fail-safe  
**49 lb (~22kg)** EVA  
or  
**120 lb (~54kg)**  
spring-return rack  
& pinion

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## Market feedback

***“New generation fail-safe actuator without the use of springs for better durability, safety, efficiency and cost. New generation actuators fit where rack & pinions can not.”***

***- December / January 2017 Valve World Issue. Editorial program on valve automation.***



***“Mining and milling present some of the harshest environments for automated valves. Instrument air is not guaranteed to be clean, dry and particle free. Environmental air can be of poor quality and laden with contaminants. Easytork actuators thrive in these conditions and have been used extensively in mining on a multitude of applications.”***

***– Customer testimonial (first install since 2015)***

## Torque Chart

Double-Acting (In-Lb)								
Model / PSI	30	40	50	60	70	80	90	100
EVA-0411	129	171	214	257	300	343	386	429
EVA-0514	237	316	395	474	553	632	711	790
EVA-0717	505	673	842	1,010	1,178	1,347	1,515	1,683
EVA-1022	1,020	1,361	1,701	2,041	2,381	2,721	3,061	3,401
EVA-1227	2,263	3,018	3,772	4,527	5,281	6,036	6,790	7,545
EVA-1436	3,949	5,265	6,582	7,898	9,215	10,531	11,847	13,164
EVA-1646	8,678	11,571	14,463	17,356	20,249	23,141	26,034	28,927
Tandem	17,356	23,141	28,927	34,712	40,498	46,283	52,068	57,854

Fail-Safe (Minimum Torque At End-Of-Stroke) (In-Lb)								
Model / PSI	30	40	50	60	70	80	90	100
EVA-0411	82	110	137	165	192	219	247	274
EVA-0514	154	206	257	309	360	412	463	514
EVA-0717	336	448	560	672	783	895	1,007	1,119
EVA-1022	675	900	1,126	1,351	1,576	1,801	2,026	2,251
EVA-1227	1,529	2,038	2,548	3,057	3,567	4,076	4,586	5,095
EVA-1436	2,666	3,554	4,443	5,331	6,220	7,108	7,997	8,886
EVA-1646	5,814	7,752	9,690	11,627	13,565	15,503	17,441	19,379
Tandem	11,627	15,503	19,379	23,255	27,131	31,007	34,882	38,758