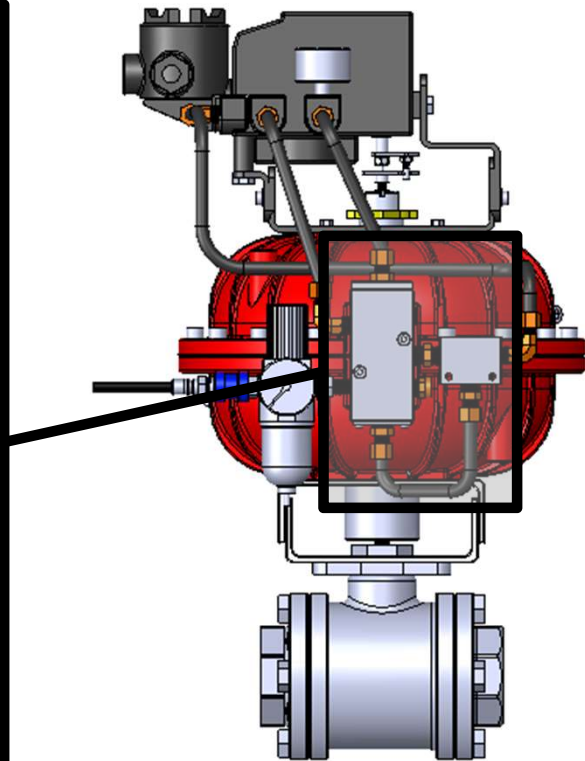
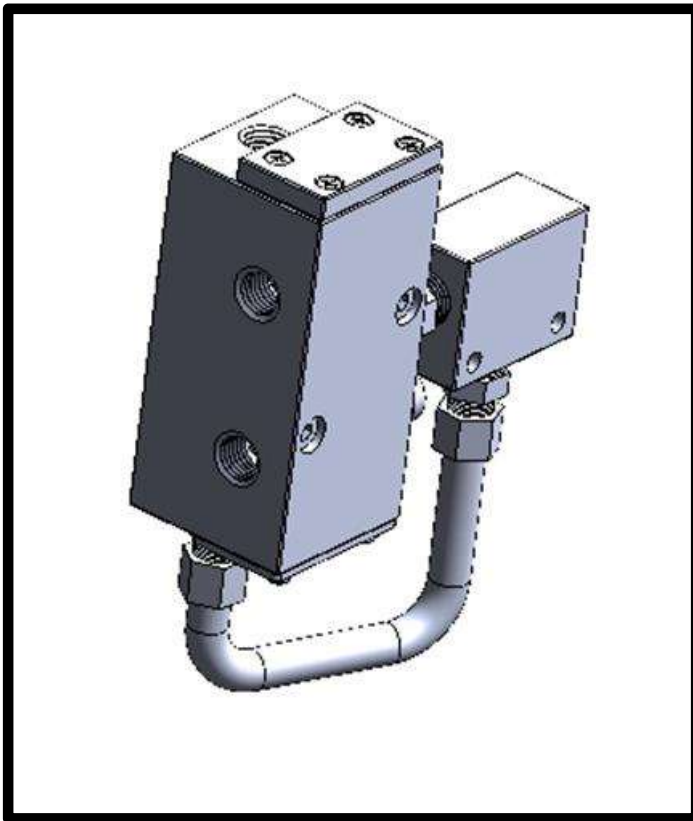


Easytork

Control Valve Solutions ERPV Universal Block



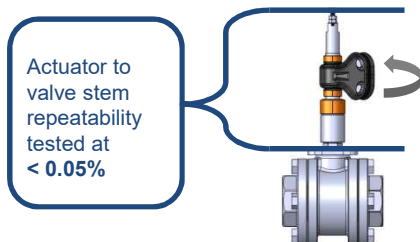
Engineered for
actuators with
onboard reservoirs

Control Valve Features and Benefits With EVA

Value-Add of Easytork Actuator For Control Valves

EVA Has <0.05% Added Repeatability

With no linear-to-rotary motion transfer, Easytork's test on its actuator yielded a <0.05% repeatability.



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.

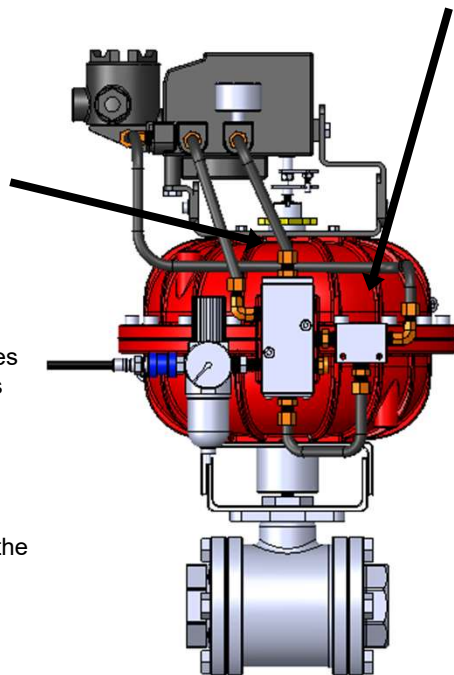
No Spring-Drift

Even when air supply fluctuates from specification, unlike spring based actuators, the EVA will not experience spring drift.

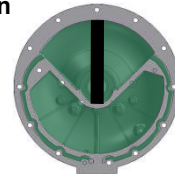
Ideal for Corrosive / Dirty Environment

Environment air never enters actuator. In fail-safe setup, system never pulls in environment air into actuator.

Fail-Safe Control Valve Setup



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 positioners can operate with supply pressure up to 100 psi. Typical diaphragm actuators are limited to 40-60 psi.

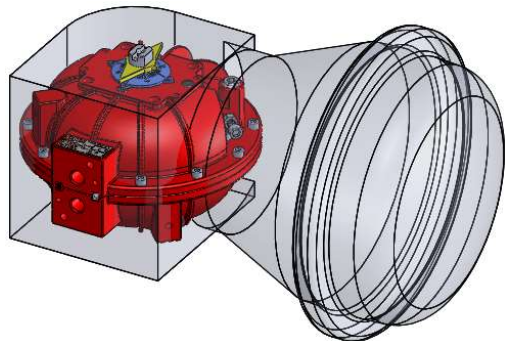
Higher actuator air supply coupled with high-pressure air on both sides of the actuator vane provide exceptional stiffness for precise throttling control.

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.

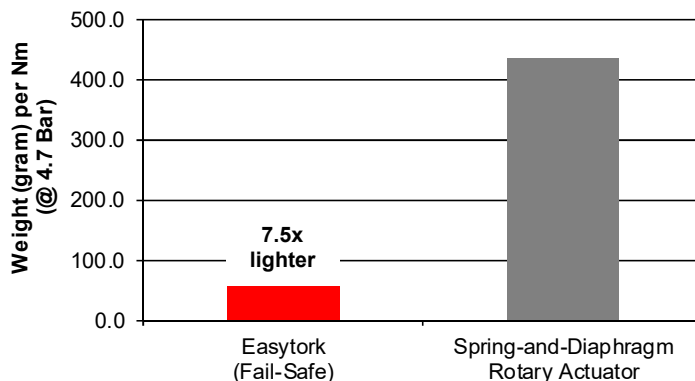
Fights Stiction - Smaller and Lighter Than Diaphragm Rotary Actuator

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 in moving parts and construction simplicity help reduce weight and size while contributing to weight balance on top of the valve.



Size comparison to spring-and-diaphragm rotary actuator

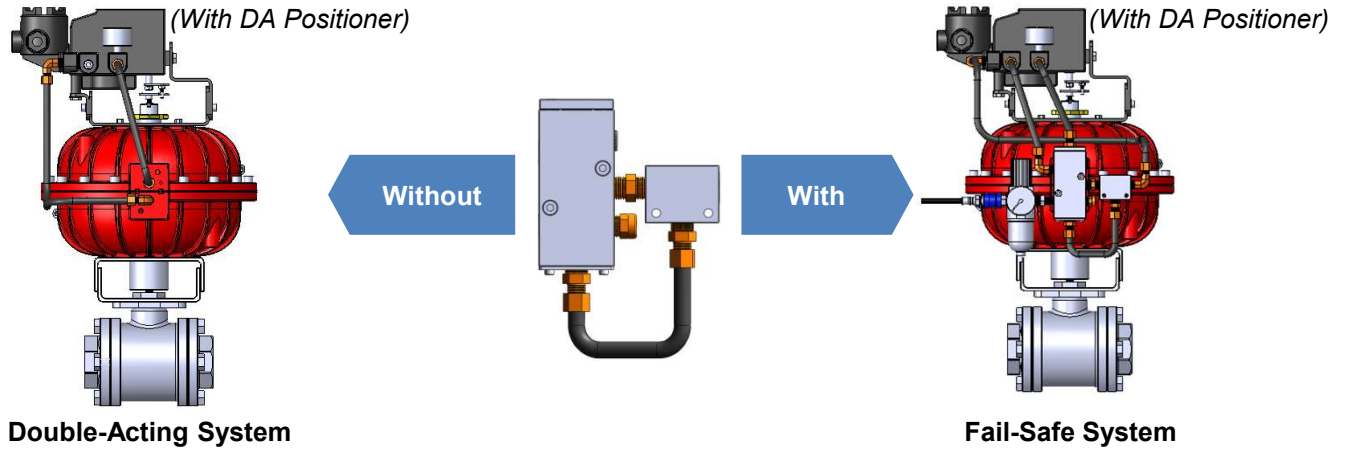


How to Use EVA Actuator With Positioners

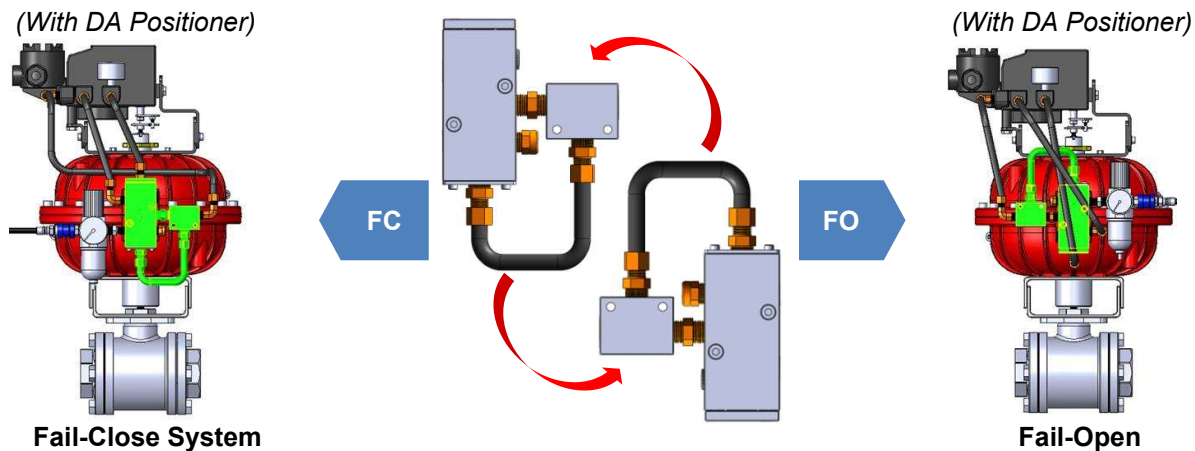
Easytork Rotary Positioner Valve (“ERPV”)

EVAs will work with any positioner in the market. *Regardless of double-acting or fail-safe setup, user must use a double-acting positioner.* Installing or not installing Easytork’s Rotary Positioner Valve (“ERPV”) with a double-acting positioner determines what function (fail-safe, in open or close, or double-acting) the actuator has. Any 4-20ma or 3-15 psi positioner in the market works with the system.

Convert Actuator to Fail-Safe or Double-Acting



Convert System Between Fail-Close or Fail-Open



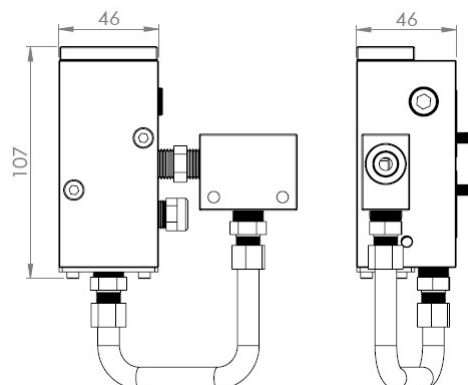
ERPV Specifications

ERPV Technical Specification

Operating pressure ⁽¹⁾	2 - 10 bar (30 - 150 psi)
Operating medium	Air (dry or lubricated)
Flow l/min (Cv)	Port size: 1/4" 1000 l/min (Cv = 1.0)
Temperature range	-20°C to 80°C (-4°F to 176°F)

Note (1): If required, consult factory for minimum pressure setting for over 2 bar (30 psi).

Patents: ERPV
Patent pending



(Figures in mm)

Ordering Codes

Easytork Rotary Positioner Valve

Prefix	Product Type	Model Number	ERPVP Attributes		
			Seal	ERPP Body Material	Thread
C	- PV	- X	- X	- X	X
C: Complete product	PV: Universal positioner valve	1: ERPVP - Easytork rotary positioner valve	1: Standard seal (for all temp -20°C to 80°C or -4°F to 176°F)	1: Standard version 2: Chemical resistant version	1: Imperial 2: Metric

Easytork Rotary Positioner Plate (Previous Generation)

Prefix	Product Type	Model Number	ERPVP Attributes			Pressure Sensor
			Seal (Temp. Rating)	ERPP Body Material (Corrosion Rating)	Thread	Pressure Sensor Rating
C	- PP	- X	- X	- X	X	- X
C: Complete product	PP: Universal positioner plate	1: ERPVP - Easytork rotary positioner plate with pressure sensor	1: Standard seal (for all temp -40°C to 120°C or -40°F to 248°F)	1: Standard version 2: Chemical resistant version	1: Imperial 2: Metric	1: Standard Nema 4 3: Explosion Proof 0: No Rating X: No Pressure Sensor

About

We believe in selling "easy". Easytork brings differentiating features and benefits to the process control industry through our focus on innovation and quality. Easytork has been awarded numerous awards including:

2013 – Arch Grants Recipient

2015 – Accelerate St. Louis

2017 – Frost & Sullivan Product Innovation Award

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