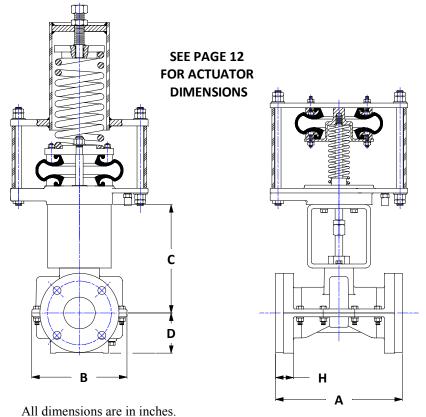
### Series CAP

#### Pre-Pinched, Single Pinch, Enclosed Construction, Pneumatically Operated

- Low pressure drop
- No packing
- Drop tight closure
- On/Off or throttling service
- Linear throttling characteristic
- Fail Open or Fail Closed pneumatic actuators
- Long lasting compression molded sleeve

**Applications:** Ideal for automatic control of abrasive, viscous, and corrosive fluids including wastewater, mine slurry, chemicals, cement, pulp , powder and pellets.

**Operation:** A pre-pinched pneumatically operated valve with the maintenance free Onyx Actuator. The actuator uses a spring for reliable fail-open (PFO) or fail-closed (PFC) operation in a range of sizes. It does not require lubricated air.





#### **Specifications:**

- Flanges: ANSI STD. 125/150 lbs
- Housing: Cast iron, ASTM A48, Class 35
- Stem: 303 stainless steel
- Yoke: Carbon steel
- Actuator: Cast iron/PVC

#### **Options:**

- Epoxy paint
- Sleeve elastomer
- 316 stainless steel stem
- ANSI STD 300 lbs. Flange
- Secondary containment package
- Auxiliary hand wheel
- Positioners
- Solenoid valves
- Limit switches

SIZE	4	6	8	10	12	14	16	18	20	24	
Α	9.00	17.75	21.37	26.50	29.00	28.00	32.00	36.00	40.00	48.00	
В	13.50	20.12	22.75	26.25	32.00	34.37	34.37	43.75	50.50	60.50	
С	15.56	17.68	21.43	22.50	26.68	27.68	33.12	34.12	42.65	45.25	
D	4.62	5.75	7.00	8.25	9.75	13.68	16.12	17.12	19.65	22.25	
H	1.31	1.87	1.62	1.81	2.25	2.75	3.37	3.37	3.50	3.50	
P Max	150 psi			100 psi							
Wt, lb	90	150	350	550	800	1,000	1,700	2,000	3,000	4,300	

# **PNEUMATIC ACTUATORS**

#### Pneumatic Fail Open and Fail Closed Actuators

- No Lubrication Required
- No piston Rings to Replace, Ever.
- No Wiper Rings
- Fail Safe Spring Return Operation
- Low Friction
- Zero Leakage
- Low Air Consumption
- On / Off or Modulating Service
- Rugged Cast Iron Base
- 303 Stainless Steel Stem
- PVC Cover Tube

These actuators provide outstanding performance in harsh environments. They are available in seven different sizes to match valve thrust and stroke requirements.

**Construction:** The heart of the Onyx actuator is a Firestone Air-Stroke® rubber suspension bag and spring. These air bags are typically used as suspension elements in trucks and buses, with a track record of years of dependable service under adverse conditions. Combining an air bag actuator with a spring provides simple, rugged, dependable actuation.

#### **DURABLE FOR LONG LIFE**

Airstroke actuators are a further application of Firestone's time proven Airide springs for truck and bus suspensions. Long life and durability proven in millions of miles of heavy-duty suspension use under adverse environmental conditions.

#### NO MAINTENANCE OR LUBRICATION REQUIRED

#### NO PISTON

Airstroke actuators have no piston or sliding seals. This allows for the design of Airstroke actuators into applications where dirt or grit would destroy the seals on conventional cylinders.

#### FRICTION FREE FOR IMMEDIATE RESPONSE

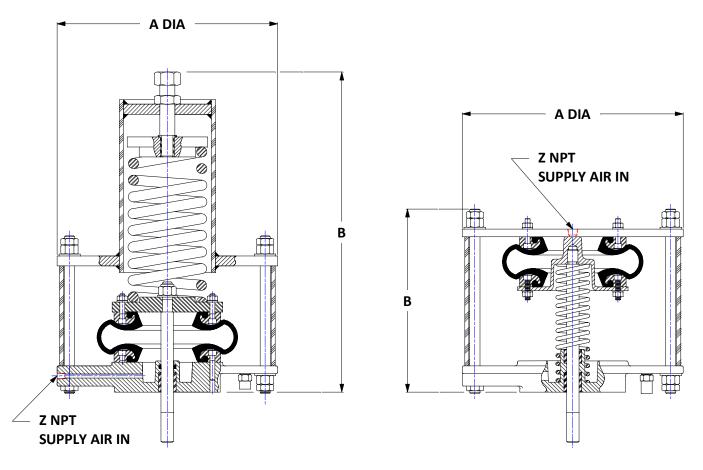
Since Airstroke actuators have no sliding seals, there is no breakaway friction as with conventional cylinders, making them ideally suited for operation with modulating positioners.





## **PFO & PFC ACTUATORS**

ACTUATOR WEIGHTS AND DIMENSIONS (All dimensions are in inches and weights are in lbs.)



#### **PFC ACTUATOR**

**PFO ACTUATOR** 

SIZE	8	12	21	30	36	40	70	80	120	200	
A DIA	7.50	11.00	11.18	13.56	14.74	19.06	16.37	19.75	23.68	31.75	
B (PFC)	10.37	22.12	27.37	34.62	37.12	62.37	50.12	52.62	59.50	N/A	
B (PFO)	7.15	9.12	11.00	13.00	16.25		18.50	18.50	24.50	34.93	
Z NPT	1/4				3/8		1/2				
WEIGHT (PFC)	25	45	70	156	226	300	355	385	450	N/A	
WEIGHT (PFO)	20	40	46	75	119	130	140	145	200	880	