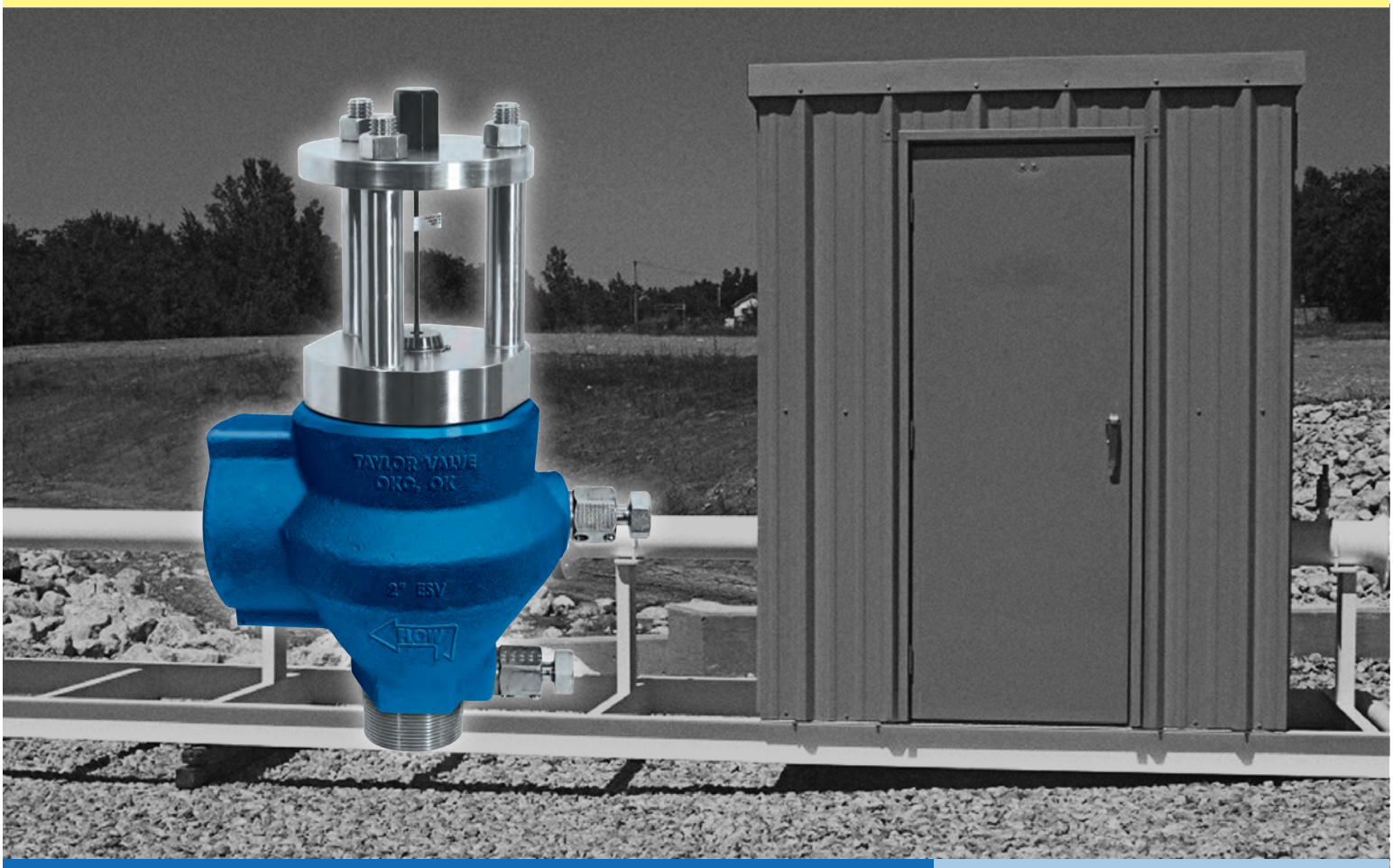
Rupture Pin® A BRAND of Taylor Valve Technology®

GET THE POWER OF THE PIN

MODEL A - ESV

Angle Type ESV



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SINCE 1958

MODEL A ESV

ADVANTAGES

- Reliable settings.
- One moving part.
- Our valve technology utilizes a proven design principle - (Euler's Law).
- Reaches closed position in milliseconds to provide a bubble-tight seal.
- +/-5% accuracy of set pressure.
- Stainless-steel seat and piston - standard.
- Pin color matches the holding nut color to insure accurate set pressure.
- Fatigue and pulsation are not factors that affect the set pressure of the valve.
- Pins can be changed by one person in minutes. (Spare pins can be stored in a container at the valve - optional)
- A proximity sensor can be installed to monitor the valve. When the valve opens, a reliable signal alerts personnel. (*Optional*)
- Visual indication of closing.
- Bleed only what is in the isolated valve.
- Unaffected by pulsating pressures.
- Unaffected by changing ambient temperatures of the pin.
- Opens in milliseconds.
- Operates to within 95% of set point.
- Pin cannot fatigue and buckle early.
- Precise pin, obeying Euler's Law, acts as a pressure sensor & actuator.

COLOR	SET PSI*	COLOR	SET PSI
Gold	40	Pink	220
Light Blue	50	Brown	225
Red	100	Green	250
Blue	125	Orange	275
Gray	150	Black	400
White	175	Yellow	500

*For other set pressures, contact Taylor Valve.

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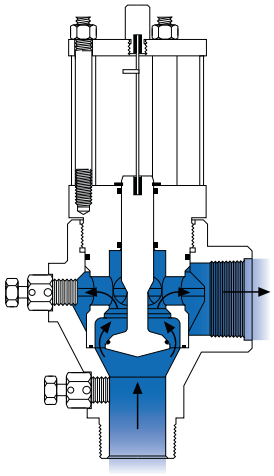
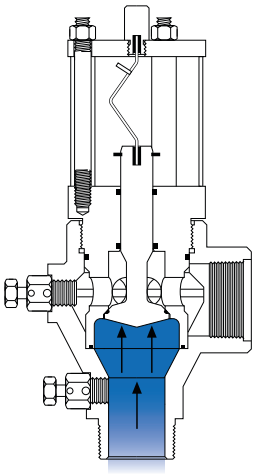


OPEN (STRAIGHT)

The pin holds the piston in place until the set pressure is reached.



CLOSED (BUCKLED)

When set pressure is reached, pin buckles to close valve.

MODEL "A" CHARACTERISTICS

Pressure Set Point Range:
40 PSI - 500 PSI

Valve Seals: Available for high & low temperatures, viton standard - 20°F to 600°F with optional seals.

Standard Materials:
Body mild steel, stainless-steel trim is standard, other materials optional.

Accuracy: + / –5%

Proximity Sensor: For remote closed indication is optional.

Pin Container:
Pin storage at the valve is optional.

HOW IT WORKS

Flowing pressure acting on the unbalanced stem area puts an axial force on the pin. At set point, the pin buckles and the valve closes for a bubble-tight seal. In case of a downstream line break, the mass velocity impinging on the lower piston surface will force the pin to buckle and the valve will seal closed. Unlike conventional valves and rupture discs, the Model "A" proves it is environmentally friendly by keeping you from flaring production or venting production to the atmosphere.

ISO 9001:2000 CERTIFIED BUCKLING PIN TECHNOLOGY 2012

CRN OC11659.5C

SYSTEM PRODUCT PEOPLE ENVIRONMENT ALL SAFE

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COLOR CODED PINS

Pins on this model are color coded to match the color on the top pin holding nut.