



Rupture Pin® A BRAND of ———  
Taylor Valve Technology®



# GET THE POWER OF THE PIN

## ASME Certified Angle Type Model C-ASME

The **Model C - ASME** holds a bubble-tight, closed position until pressure reaches an exact set point. At set point, the valve instantly opens to relieve pressure from a protected system.

FROM THE  
CREATORS  
OF THE  
*Original*  
BUCKLING  
PIN  
VALVE



- Wide variety of pressures ratings and settings.
- Full bore orifice.
- Reliable settings.
- Utilizes proven design principle – Euler’s Law.
- Provides bubble-tight seal in closed position.
- +/- 5% accuracy of set pressure. Accuracy usually held below +/- 3%.
- Stainless-steel seat and piston – standard.
- Reseats rapidly without opening the valve or line to atmosphere.
- Pin flag shows the pin code, valve serial number and pin set point in PSIG.
- No loose metal or plastic shards to enter the flow stream upon opening.
- One moving part.
- The pin cannot fatigue.
- Provides a reliable signal with the proximity sensor to monitor the stem movement and gives a remote indication that the valve has opened (*Option*).
- Spare pins can be stored at the valve (*Option*).
- Balanced piston design to negate the effects of back pressure (*Option*).



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# MODEL C-ASME

## ADVANTAGES

- Visual and remote indication of opening
- No fugitive emissions, even on resetting
- Does not generate metal or plastic shards
- Unaffected by changing ambient temperatures on the pin
- Bubble-tight seal to set point
- 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 and actuator
- The valve can be downstream balanced so that downstream pressure does not affect set point

## APPLICATIONS

Provides safety for a wide variety of pressure relief applications. The ideal substitute for rupture discs.

## SPECIFICATIONS

### VALVE POSITION

Pins are sized with the valve oriented as it will be in actual use; so, piston weight will not affect set point.

### PRESSURE SET POINT RANGE

15 to 1,480 PSI.

### SIZES

1.5" to 30". (Other sizes are available upon request for non-coded valves)

### CONNECTIONS

Flange connections available - 150# to 600#.

### VALVE SEALS

Available for high and low temperatures, Viton standard.

### STANDARD MATERIALS

ASME Section II materials.

### ACCURACY

+/- 5% above 40 PSI, ±2 PSI Below 40 PSI.

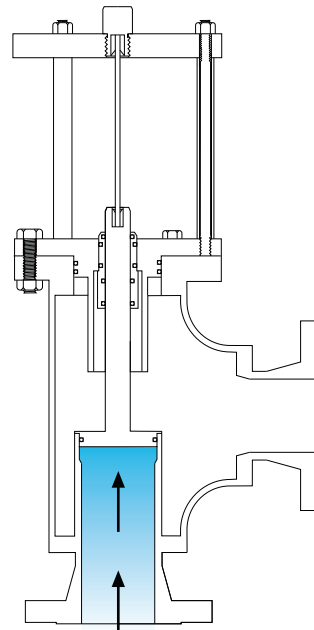
### DOWNSTREAM PRESSURE BALANCED

Optional, an additional piston balances out downstream pressure.

## OPERATION

In the closed position, an elastomer seal contacts a machined, stainless-steel piston seat for a bubble-tight shut off. When the pin buckles, the piston moves off seat to allow full flow pressure relief.

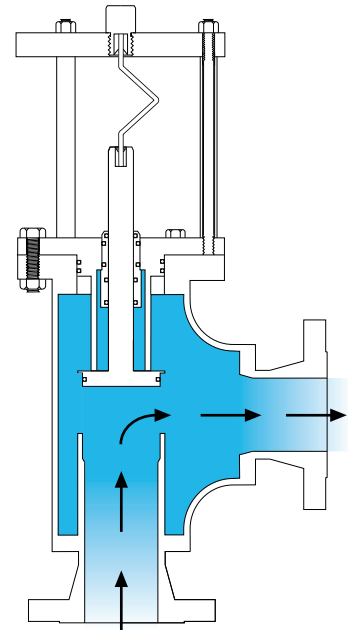
### Closed



(Straight Pin)

Pressure Below Set Point

### Open



(Buckled Pin)

Pressure At Set Point

## ASME SCOPE

Inlet-Outlet connections can now be the same size with option of outlet being one size larger than inlet.

Pressure Ranges: 15 - 1480 psi\*

Rated for Both Liquid and Air Media

\*Varies depending on Inlet/Outlet Sizes

## OPTIONS

### PROXIMITY SENSOR

For remote open indication.

### PIN CONTAINER

Pin storage at the valve.

### STAINLESS-STEEL SAFETY CAGE

Protects your pin from accidental damage.