



FROM THE
CREATORS
OF THE
Original
BUCKLING
PIN
VALVE

Precise.

Quality.

Reliable.



UD



MODEL C-ASME ADVANTAGES

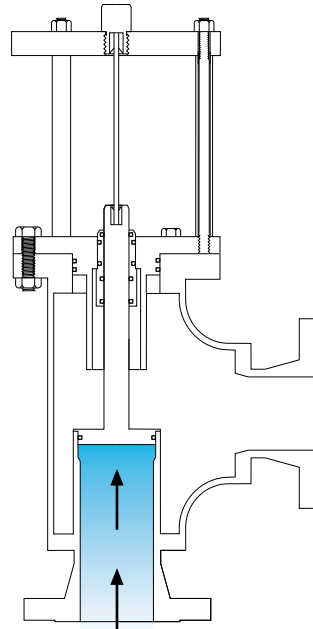
- Visual and remote indication of opening
- No fugitive emissions, even on resetting
- Does not generate metal or plastic shards
- Unaffected by changing ambient temperatures on the pin
- Bubble-tight seal to set point
- Opens in milliseconds
- Operates to within 95% of set point
- Pin cannot fatigue 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.



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.

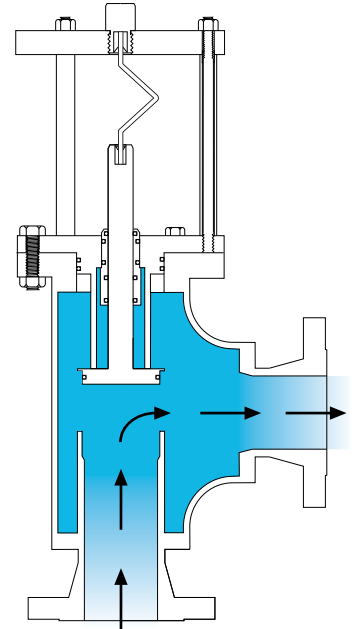
Closed



(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.

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.

- 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*).

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.



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1/15/25

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