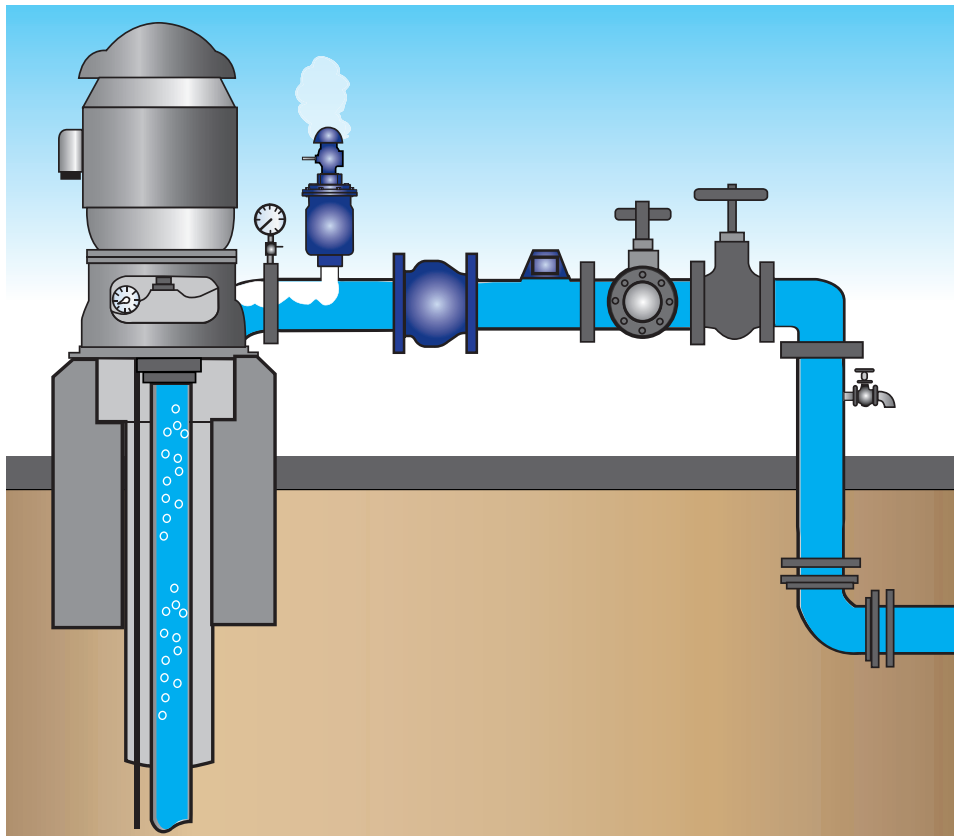
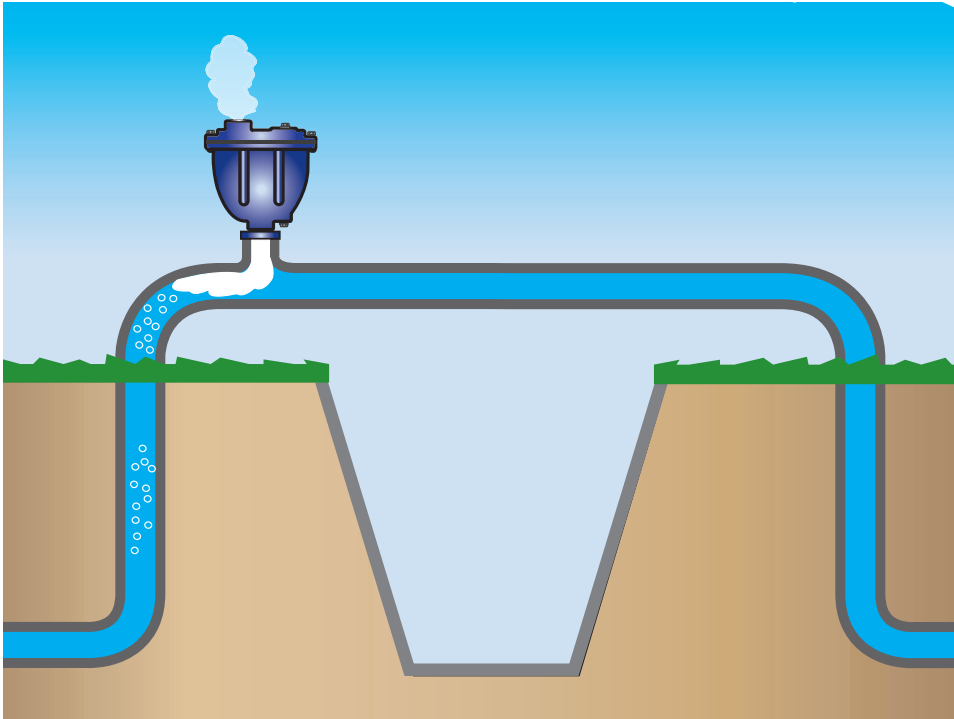


CONSERVATION

An open-and-shut case for air valves

Conserve energy • Improve efficiency • Protect your piping system



What causes entrapped air in water distribution systems?

The build-up of entrapped air at high points in a water distribution systems is an everyday occurrence. It will occur during pipeline filling, whenever a pump starts or stops, and if there is a power failure where pumping suddenly ceases.

Unless this entrapped air is exhausted, over time, it will restrict flow, make the pump work harder than necessary (wasting energy), and create conditions that can cause water loss.

What can happen to a water distribution system if entrapped air is not discharged?

- If not discharged, entrapped air can result in water column separation and extreme pressure fluctuations
- High pressure surges can occur when an air pocket is suddenly pushed down a pipeline, causing ruptures or bursts, potentially wasting thousands of gallons of water before the leak is repaired
- Vacuum conditions can also develop which can stop the flow of liquid in your piping altogether

What can you do about it?

- Air release valves are the single best way to ensure that entrapped air is passively exhausted to atmosphere before damage can occur
- Cla-Val Combination air release/vacuum breaker valves can release small pockets of air from high points in the system during periods of normal operation and prevent vacuum conditions from occurring
- Both air release and combination air release/vacuum breaker valves are an easy and inexpensive way to save power and water, increase system efficiency and protect your pipeline from the hidden dangers of entrapped air, without the need for human intervention or monitoring.



visit www.cla-val.com
click the "Air Valves" Quick Link

Innovation...Experience...Know-How

As a leading manufacturer of automatic control valves, Cla-Val has served the following markets since 1936:

- Waterworks
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- Aviation Ground Fueling
- Marine and Shipboard Service

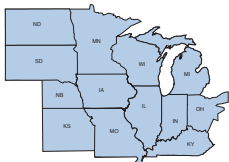
We offer many advantages to our customers worldwide, including the following:

- In-house Engineering Department
- Onsite investment and sand casting foundries able to pour more than 50 different metals and alloys
- 22-acre manufacturing facility in Costa Mesa, CA
- Production facilities in Perris, CA; Ontario, Canada; Switzerland; the United Kingdom; and France
- Extensive technical training capabilities

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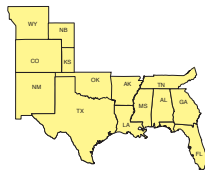


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