



# A Simple, Efficient Strategy Improves Reliability and Safeguards Your Water Supply

**You Have the Power to Control Risk,  
Reduce Water Loss, and Slow Down Rate Increases.**

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## Presentation Highlights

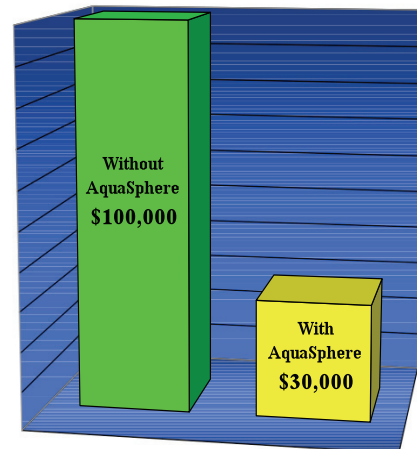
- Cut annual repair costs by 60-80%.
- Expect a typical 3-month investment payback.
- Stretch the pipeline replacement schedule far into the future
- Shift dollars to other critical priorities.
- Learn that up to 80% of water loss is attributed to leaks and breaks.
- Control water loss by stopping catastrophic pipeline failure.
- Take the lead with a proven, cost-effective water conservation plan.
- Reduce emergencies and complaints due to service interruptions.
- Assure the uninterrupted delivery of clean, safe, abundant, affordable water.

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**Better Service at  
Lower Taxpayer Cost**

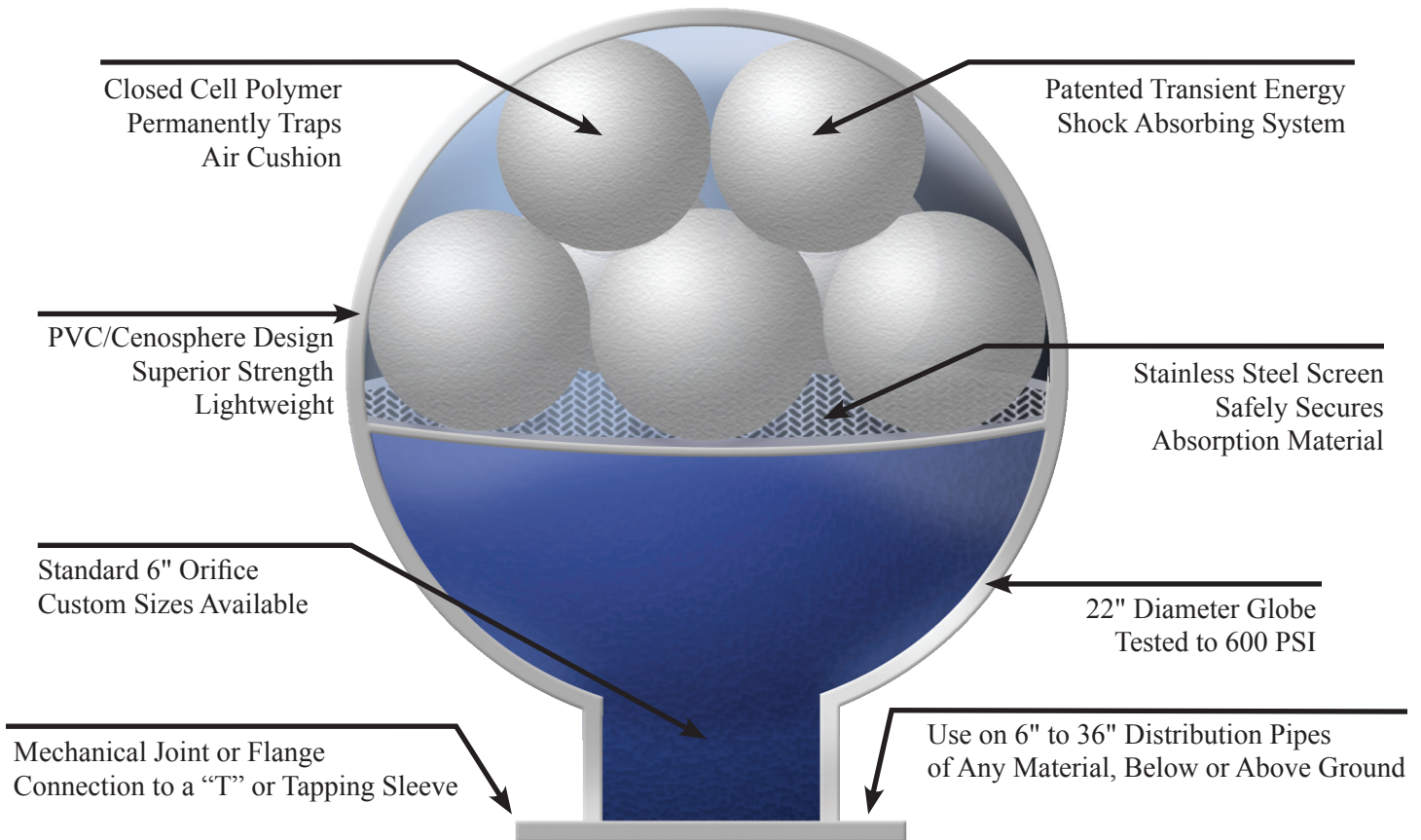
**Isn't That  
What *Really* Matters?**

## Lower Annual Operating Costs





# Why Choose *AquaSphere* Technology?



- **Take control** of the primary cause of pipe failure.
- **Conserve water** by minimizing water loss.
- **Protect water quality** by reducing the risk of contamination.
- **Deliver water more efficiently** with fewer service interruptions.
- **Relieve budget pressures** by lowering operational costs.
- **Lengthen the replacement timeline** for an aging infrastructure.
- **Avoid rate shock** by fighting the upward pressure on prices.

***AquaSphere* Technology is the Smart Choice.**



## Executive Summary

SAVCO Corporation helps protect the health and well-being of the American public by safeguarding the physical integrity of water distribution systems. *AquaSphere Technology* calms the stress in water distribution pipelines by absorbing hydraulic shock, the primary cause of catastrophic pipe failure. Reducing the frequency of water main breaks helps cities:

- **Conserve water** by minimizing water loss.
- **Protect water quality** by reducing the risk of contamination.
- **Deliver water more efficiently** with fewer service interruptions.
- **Relieve budget pressures** by lowering operational costs.
- **Lengthen the replacement timeline** for an aging infrastructure.
- **Avoid rate shock** by fighting the upward pressure on prices.

Water system stewards struggle to avoid the painful consequences of excessive water main breaks. Pipeline replacement is often a premature and fiscally unsustainable remedy. Cities have proved that controlling pressure spikes is a cost-effective alternative. Every water system world-wide can benefit from this innovative, patented, fourth-generation *AquaSphere Technology*. But water systems with one or more of the following traits are prime beneficiaries:

- Higher than average annual break frequency (more than 25 breaks/year/100 miles of pipe).
- Larger percentage of older, cast iron pipes throughout the system.
- Shortage of funds to meet the current pipeline replacement schedule.
- Growing list of competing budget priorities.
- High risk awareness due to monitoring, design, or special customer uses.
- Lack of money and/or qualified staff preventing the acquisition and use of transient modeling software.
- Transient analysis results which pin-point optimum placement of protection devices.
- Strong desire to reduce break frequency by 50-90%.

In 2007, The EPA's Total Coliform Rule / Distribution System Federal Advisory Committee presented two preliminary recommendations: (1) "*Sufficient Surge Suppression Devices Should Be Installed*" and (2) "*Pressure is the most important risk minimization tool*". In public comment to the committee, SAVCO verified that 15 years of field tests had proved: **the cost of prevention is significantly less than the cost of repair or replacement**. Researchers agree that break frequency is the only meaningful measure of the hydraulic integrity of a pipeline system. The American people agree that fewer breaks is good public policy.

To create a sense of urgency, the EPA aggregates individual city pain into a nationwide challenge:

- Each day, 6 billion gallons of drinkable, usable water is lost to pipeline failure.
- 237,000 water main breaks occur annually in the U.S.
- Nearly 1,000 breaks per day in North America.
- At the current rate, it will take 300 years to replace water infrastructure.
- It is estimated that up to 80% of unaccounted water is due to breaks.

In an existing water system, hydraulic shock is the *only controllable causal factor* of pipeline failure. *AquaSphere Technology* puts you in control.

Installing devices at distant points throughout the distribution system creates an "umbrella" of protection for the most vulnerable locations. Devices are installed at the time and place of a main break to minimize cost. Choosing *AquaSphere Technology* means eliminating - in the first year and each year thereafter - at least half of the historical annual average of pipeline failures.

**If Water Conservation and Budget Relief are Priorities, then *AquaSphere Technology* is the Smart Choice.**