

The Client

Los Angeles
County, California

The Challenge

- Valve at inlet of reservoir tank couldn't handle high-pressure drop
- Too noisy
- Lots of cavitation

The Solution

Singer's Altitude Valve with Anti-Cavitation Trim

The Result

- No noise
- No cavitation
- Happy horses

L.A. County Trusts Singer's Anti-Cav Trim



Malibu, California – At Pepperdine University, even the horses kicked up a fuss about how noisy a nearby valve was when it opened and closed. The horse stable stood next to a reservoir tank in the pressure zone at an elevation of 545 feet. The valve, which was at the tank's inlet, was serviced by a high pressure line from 812 feet elevation. When opened, the valve would vibrate so drastically from the pressure drop that the nearby horses would react wildly.

“The valve vibrated so much it scared us—and the horses,” says Rick LaSance of Los Angeles County. “We were afraid it was out of control.”

Before long, the valve needed to be replaced. LaSance knew, however, that specifying the same valve would neither eliminate the noise nor stop cavitation.

Fortunately, LaSance had heard of Singer Valve Inc. through a contractor who had specified Singer valves for another project. Knowing that L.A. County was unfamiliar with Singer valves, a Singer territory manager offered LaSance a complimentary pump control valve as a test case. The introduction proved to be an unqualified success.

“The Singer Anti-Cavitation Trim was an effective and reliable solution for Pepperdine University,” says Kari Oksanen, general manager for Singer Valve Inc. “It’s a unique valve no one else offers.”

“That’s when we learned Singer makes an anti-cavitation trim,” says LaSance, L.A. County’s electromechanic working supervisor in charge of water distribution. “So, we decided to try Singer’s Altitude Valve with the Anti-Cavitation feature at the Pepperdine University tank.”

“The valve was so quiet we couldn’t believe it,” says LaSance. “There is no more vibration and the horses calmed down.”

Four years after L.A. County installed the Singer valve with the Anti-Cavitation Trim, LaSance pulled it apart for inspection. “Everything was running perfectly,” he says.

Since then, LaSance has often specified Singer valves. “Any time we have noise in a valve or are working with higher pressure, we go strictly with Singer’s Anti-Cavitation Trim. They solve all of our noise and vibration problems.”

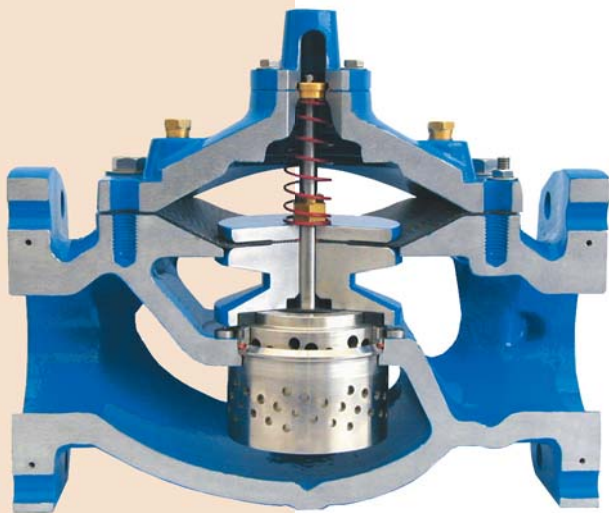
With 45 pressure zones in the district, Rick LaSance faces every imaginable problem. “We work up around 500 psi,” he says, “so we need confidence that the valves can handle that amount of pressure. We now use Singer Pressure Reducing Valves, Altitude Valves, Pressure Relief Valves, Pump Control Valves and many others.”

“Singer gives us personalized service rather than just sending us a valve off the shelf,” says LaSance. “They want to know what we need the valve for and they design the valve around that.” And, when problems arise, a Singer field technician is there to help. “They have resolved all the problems we’ve ever had,” notes LaSance. “We are very happy to have Singer on board.”



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Benefits of Singer's Anti-Cavitation Trim

- Solves high-pressure drop problems
- Controls continuous and/or variable flows
- Prevents cavitation damage
- Handles differential pressure of 300 psi (and more) in one valve, even to atmosphere
- Reduces noise significantly
- Minimizes vibration
- Low maintenance, in-line service

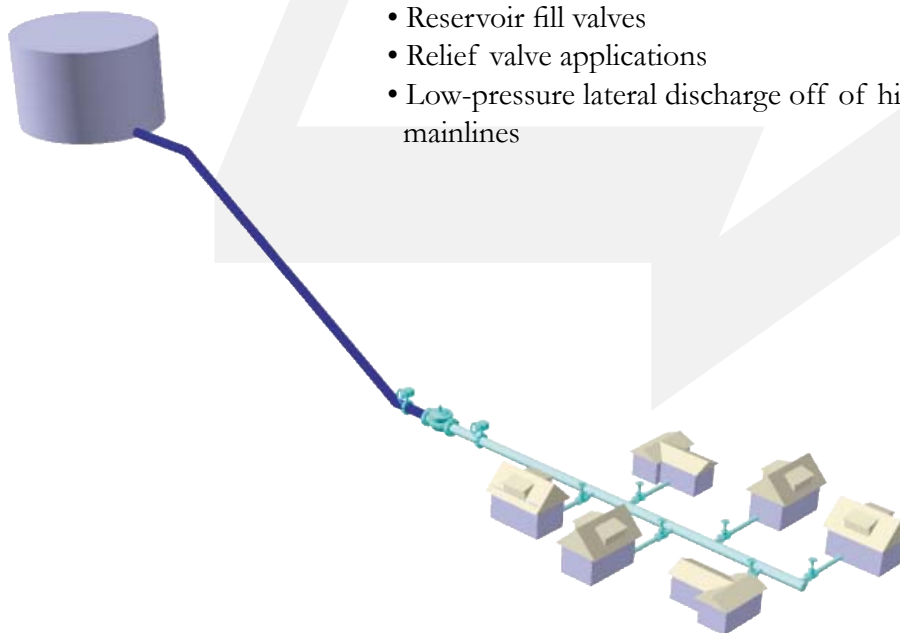
Why It Works

The cavitation process is contained within the stainless steel cages.

Ideal Applications

When outlet pressure approaches or is less than 30% of inlet pressure, such as:

- Reservoir fill valves
- Relief valve applications
- Low-pressure lateral discharge off of high-pressure mainlines



Singer Clients Who Use It

- Prescott, Arizona
- East Bay Municipal Utility District, California
- City of Vancouver, British Columbia, Canada
- Worthparke Mines, Australia
- Suncor Energy, Fort McMurray, Alberta, Canada

Did You Know...

Kari Oksanen, Singer Valve's general manager, designed the Anti-Cavitation Trim in the 1980s by adapting and improving existing technology. "The secret is the second cage," he says. "A single cage anti-cav valve has severe limitations."

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