

Laguna Pueblo Reservation Watts' Valves Secure Desert Water Supply

Industry:
Government

Category:
Flow Control

Location:
Albuquerque, NM

Installation:
Watts Tank Fill
altitude control valves



"We're very pleased with the level of control we could achieve with the Watts valves and, now after several months of service, the performance of the equipment as well."

*- Senior Field Engineer at Albuquerque Service Unit IHS
CDR David Steen*

CUSTOMER: Indian Health Services + Laguna Reservation

SCOPE: Solution needed to handle the high-altitude water pressure in 98 miles of water line pipes.

CHALLENGE: Some of the pipes are old, galvanized and rusted to the point that even pressure surges in the system can cause ruptures without being noticed for lengths of time.

SOLUTION: Watts tank fill altitude control valves with delayed-opening functions and upstream pressure sustaining options.

RESULTS: Prevented overtopping of tanks and the wasting of water, as well as prevent un-checked flow from the high tank to lower tanks in the even of a major water break.

With a population close to 8,000, the Laguna Pueblo – stretching across a large area 45 miles west of Albuquerque – is one of the largest pueblo groups. The six villages in Laguna are connected together by 98 miles of water distribution lines.

Over the years, and with growing frequency, water lines were replaced on an as-needed basis though some are still old galvanized pipes that have rusted to the point that even pressure surges in the system can cause ruptures.

Three new water tanks were installed to provide storage capacity in closer proximity to actual demand, and create pressure zones to better match the varying elevations throughout the system.

Watts tank fill altitude control valves with upstream pressure sustaining options were installed at two of the three holding tanks. Acting as tourniquets, they not only prevent overtopping of the tanks and wasting of water, but the upstream pressure sustaining feature was chosen to prevent un-checked flow from the high tank to lower tanks in the event of a major water break.



A Watts Water Technologies Company



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