

INSTA-VALVE 250 SUCCESS STORY

Insta-Valve 250 Eliminates Widespread Service Outage During Pipe Replacement Project

Prescott, AZ | Population: 46,833

SUMMARY

Hydra-Stop's insertion valve provided targeted control for an AC pipe removal project without widespread water service outages.

THE PROBLEM

Water Operations, a Division of Public Works for the City of Prescott, Arizona, provides water to the city's businesses, schools, hospitals, and more than 45,000 residents. The department also oversees installing and maintaining the city's underground water infrastructure and fire protection.

Their water distribution system consists of ductile iron (DI), asbestos cement (AC), and C900 PVC pipe, but their long-term plan is to replace their AC pipe. Unfortunately, a lack of control points could cause system shutdowns for large portions of the city. During a recent project, they found, based on their operable valves within the area, that 300-400 homes would lose water service during a neighborhood's AC line replacement.

THE SOLUTION

The City of Prescott turned to a Hydra-Stop-certified installer, Arizona Tap Master, to complete two six-inch Insta-Valve 250 insertion valves for a tighter isolation area. Water Operations prepped the installation sites by pre-planning the excavation sites, creating community awareness of the project, and implementing traffic control before Arizona Tap Master's crew was on site.

The two-person installation crew installed the insertion valves in 60 minutes per location, adding control where there was none. With the Insta-Valves in place, the Water Operations crew continued their replacement project, reducing their shutdown area from 300-400 homeowners to only two households.

This project was the City of Prescott's first experience with Hydra-Stop's Insta-Valve solution and was a hit with the city's leadership and plan to incorporate valve insertion into future pipe replacement and system improvement initiatives.



This project would have created a much larger service outage without the use of insertion valves. Thankfully we achieved a better isolation area with the two Insta-Valves, only affecting water service to two homes.

— David Towey,
Water Operations Supervisor,
CITY OF PRESCOTT

RESULTS

BETTER CONTROL

Crews were able to minimize service disruption and isolate the repair area.

COST REDUCTION

The city avoided widespread outages, loss of fire protection, boil orders, system pressure drops, loss of water revenue, and other costs associated with system shutdown.

LONG-TERM VALUE

The city can reuse and capitalize these permanent assets.

