

INSTA-VALVE 250 SUCCESS STORY

SAFEGUARDING NEIGHBORHOOD SERVICE DURING AN EMERGENCY WITH VALVE INSERTION

THE CHALLENGE

In July 2025, a large North Carolina city faced an urgent infrastructure issue requiring the repair of an 8-inch water main located on the side of a residential street. The challenge was clear: completing the repair without cutting service to a large neighborhood and the surrounding area.

If the main had been shut down without an inline solution, hundreds of residents would have been left without water, creating significant disruptions for households and the community at large. The utility needed a way to isolate the repair site while maintaining uninterrupted service to customers.

THE SOLUTION

To address the problem, the utility deployed a 8" Hydra-Stop Insta-Valve 250. Once trenching and shoring were in place, the valve installation took just two hours to complete.

The Insta-Valve 250 allowed crews to isolate only a small section of the line, minimizing the shutdown area and ensuring that water service to the broader neighborhood was never interrupted. The no-shutdown technology provided the utility with the flexibility to complete the repair quickly, safely, and with minimal inconvenience to customers.

PROJECT IMPACT

The successful installation of the 8" Insta-Valve 250 enabled the utility to complete the line repair with a very limited shutdown area. What could have been a wide-reaching neighborhood outage was avoided thanks to Hydra-Stop's technology.

By leveraging the Insta-Valve 250, the city once again demonstrated its commitment to maintaining service reliability for its community, even during emergency repairs. The project highlighted the value of proactive infrastructure management and reinforced confidence in the utility's ability to minimize disruptions while addressing critical system needs.



By using the Insta-Valve 250, we avoided shutting down an entire neighborhood and disrupting water service to hundreds of residents. The ability to isolate just the repair site made all the difference.

– Senior Engineer, Field Operations

