

INSTA-VALVE 250 SUCCESS STORY

HYDRANT AND VALVE REPLACEMENT PROJECT PRESERVED SERVICE WITHOUT MAJOR SHUTDOWN

THE CHALLENGE

As part of phase two of a hydrant and valve replacement project, the Bedford Water needed to isolate a section of water main operating at approximately 90 PSI. Without a new isolation point in place, completing the work would have required a 17-valve shutdown—a disruptive scenario for a critical area located near downtown Bedford and the courthouse. Maintaining reliable service during construction was essential, and a shutdown of this magnitude would have created significant operational and customer-impact risks.

THE SOLUTION

To avoid a large-scale shutdown, Bedford Water partnered with Hydra-Stop from Pentair to install a 4" Insta-Valve (IV). The demonstration installation, led by Bill Roome, created a permanent isolation point without interrupting system pressure or customer service. Hydra-Stop's no-shutdown valve insertion technology allowed the utility to isolate the water main safely and efficiently while the system remained fully operational.

The installation was completed in less than 2 hours, even in chilly weather, showcasing how quickly the solution can be deployed in a live, pressurized distribution system.

PROJECT IMPACT

The newly installed 4" Insta-Valve eliminated the need for a disruptive 17-valve shutdown while preserving service in a high-pressure (90 PSI) area near downtown Bedford. The successful installation improved system control, reduced operational risk, and provided Bedford Water with a permanent asset for future maintenance and emergencies.

The outcome left a strong impression on the utility, which is currently reviewing a new Hydra-Stop project for inclusion in its FY2026 plans.



It was a great success. That area has around 90 PSI at times, so being able to isolate or even throttle flow on the water main is crucial for repairs.— **Stephen Clowers, Maintenance Senior Supervisor, BEDFORD WATER**



HYDRA-STOP
▶ FROM PENTAIR

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