

Critical Valve Services

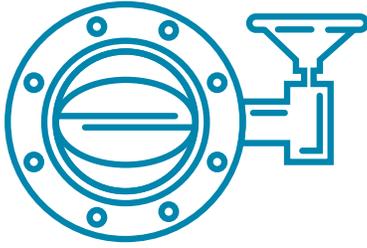
OPTIMIZE SYSTEM CONTROL WITH LARGE VALVE ASSESSMENT AND REHABILITATION

Utilities depend on critical valves to control their water networks. When valves are operational and locatable, utilities can respond faster and minimize the consequences of pipe failure. Yet, research shows that up to 40 percent of valves do not work properly. Xylem helps utilities regain control of their network. We can rehabilitate most critical valves for a fraction of replacement costs.

Why Choose Xylem?

- Increase control of critical pipelines
- Reduce the liability of aging infrastructure
- Reduce costs by extending the life of critical valves
- Gain actionable valve condition and location data that integrates with utility systems
- Leverage our extensive valve assessment expertise and services





1.4M+
Valves
inspected

65,000+
Large valves
serviced

20+
Years of
experience

STEPS TO OPTIMIZE SYSTEM CONTROL

1 Valve Identification



Inventory valves
and ensure they
are accessible

2 Valve Assessment



Inspect valves
and diagnose
problems

3 Rehabilitation & Repair



Restore critical
valves to full
function

4 Actionable Data



Deliver
meaningful
valve data

What You Can Expect

Large valves are critical assets that control flow in water and wastewater networks. They are essential for isolating issues and limiting the duration and impact of a pipe failure. A proactive system control program ensures that utilities can locate, access, and operate critical valves during an emergency, routine maintenance, or pipeline inspection. Xylem specializes in renewing aging valves, many of which have not been properly maintained. Restoring valves to full function instead of replacing them can save utilities as much as 90 percent.

Operational Excellence

Many utilities lack the experience and equipment to successfully inspect and rehabilitate large valves. We systematically exercise valves and apply a controlled amount of torque, resulting in a very low failure rate and a high number of valves that can be renewed. Our three-tiered approach to valve assessment includes:

- **Level 1 General Assessment:** Visually inspect the valve with the lowest torque application
- **Level 2 Internal Gearbox Assessment:** Inspect all moving parts within the gearbox
- **Level 3 Internal Valve Assessment:** Inspect all internal valve components, such as the disc and seat

Repairs often take place onsite, typically without shutting down the pipeline. Our part design and fabrication services provides utilities with additional value.

Delivery Experience

Xylem has more than 20 years of valve assessment and rehabilitation experience at over 300 utilities across North America. We have successfully serviced more than 1.4 million valves, including more than 65,000 critical large valves.

Actionable Information

Xylem captures actionable field data that helps utilities invest resources in the right assets at the right time. The information integrates with utility asset management systems. This helps prioritize maintenance, streamline workflows, and boosts operational intelligence.



Get More from Xylem

Replacing failed valves is expensive and time consuming. Preventative valve maintenance and repair results in less risk, reduced spending, and actionable data. Pairing a system control program with pipeline assessment reduces both the consequences and likelihood of failure. Xylem is a world leader in the inspection of water and wastewater pressure pipelines. A complete, proactive pipeline management approach can include system control, leak detection, inline wall inspection, and pipeline monitoring. **Learn more about these complementary pipeline assessment services.**

Related Case Studies

City of Grand Rapids, Michigan, United States

Project highlights

- Xylem assessed eight critical water transmission valves between 50 to 90 years old.
- All valves were successfully repaired and rehabilitated, extending their useful life by decades.
- The City saved more than US\$800,000 in valve replacement costs.

[Read the full case study](#)

For more information on how we can help you, contact us at: puretech@xylem.com

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