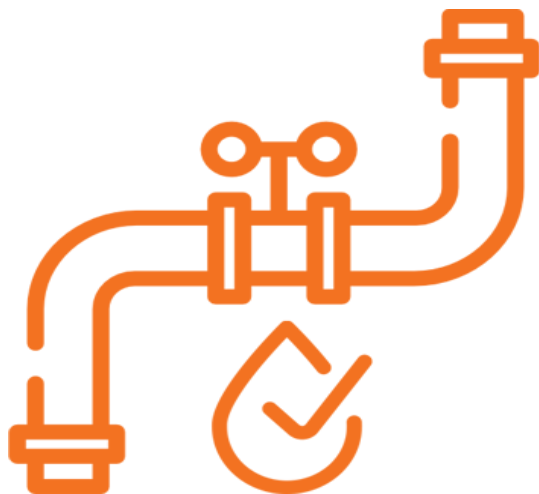




ENGINEERING • CONSULTING • COMMISSIONING • CONSTRUCTION

Experts in Cross-Connection Control and Backflow Prevention

Key Differentiators

ASSE Certified Technicians. Our Lead Technician has over 17 years of experience.

Expertise. Our team holds advanced certifications and stays at the cutting edge of backflow prevention technology and regulations. We have executed the design of potable, raw, reverse osmosis, and demineralized systems with backflow prevention devices for connection with municipalities and irrigation districts.

Comprehensive Backflow Prevention Surveys. We have strong knowledge of thermal expansion, installation requirements, pressure loss related to backflow protection, and fire protection system types and hazards.

Compliance Assistance. We navigate the complexities of local and federal regulations to ensure your facilities are compliant and secure.

Proactive Protection. We anticipate potential issues to safeguard your water systems before issues arise.

Strong Communication. We clearly explain technical issues in understandable terms and provide actionable recommendations. We issue regular updates and are responsive to questions and feedback.

Expertise In:

Air Gap
Trap Primer
Spill Resistant Vacuum Breaker
Reduced Pressure Principle Assembly
Double Check Valve
Pressure Vacuum Breaker
Atmospheric Vacuum Breaker

Certifications and Memberships:

American Society of Sanitary Engineering (ASSE)

American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)

Construction Management Association of America (CMAA),
Building Commissioning Association (BCxA)

About Us

Founded in 2015, Citrine LLC (Citrine) is a multi-discipline firm specializing in professional engineering design, construction administration, and commissioning services. Citrine's backflow technicians and surveyors are familiar with all regulations and requirements, and are trained and certified professionals. We have a firm grasp of hydraulics and the principles of backflow prevention, including how or why it occurs.

Citrine LLC is a Small Disadvantaged Business (SDB), Service-Disabled Veteran-Owned Small Business (SDVOSB), Woman-Owned Small Business (WOSB) and HUBZone Certified firm.



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[linkedin.com/company/citrinellc](https://www.linkedin.com/company/citrinellc)

Sampling of Past Performance

Backflow Preventer Testing and Repair, Department of Veterans Affairs, Sheridan Medical Center, WY
19 double check valves backflow assemblies, test 18 reduced pressure backflow assemblies; 2026-2031

Backflow Device Inspection, Testing and Repair Services, VA Western Colorado Healthcare System, Department of Veterans Affairs, Grand Junction, CO *59 assemblies; 2025*

Backflow Prevention Device Survey, U.S. Air Force, Luke Air Force Base, AZ
400 buildings, 390 backflow assemblies; 2024

Backflow Prevention Device Survey, U.S. Air Force, Joint Base Elmendorf-Richardson (JBER) AFB, AK
822 buildings spanning over 400 square miles; 2021

Plumbing and HVAC Engineering Services, Project Gateway Fiberline & Warehouse Buildings, Waco, TX
522,250 sf; 2025

Replace and Relocate Backflow Preventers, Department of Veterans Affairs, Fort Wayne VA Medical Center, Fort Wayne, IN; 2026

Repair to Okubo Dorm, U.S. Air Force, Fort Sam Houston, Joint Base, San Antonio, TX *126,153 sf; 2025*



Knowledge of References:

- AFMAN 32-1067, Water and Fuel Systems
- AFI 48-144, Safe Drinking Water Surveillance Program
- American Water Works Association (AWWA) M14 Recommended Practice for Backflow Prevention and Cross-Connection Control
- ANSI/AWWA Manual C511-17(R21) Reduced-Pressure Principle Backflow Prevention Assembly
- Cross-Connection Control Manual, EPA 570/9-89-007
- International Plumbing Code
- National Primary Drinking Water Regulations, Title 40 Code of Federal Regulations, Part 141
- Public Law 93-521, Safe Water Drinking Act, 1976
- Unified Facilities Criteria (UFC) 3-420-01 Plumbing Systems with Changes 1-8
- Uniform Plumbing Code, International Association of Plumbing and Mechanical Officials (IAMPO), 2021