

Triple Offset Valves Provide Reliable Solutions for Large Water Infrastructure Project

CUSTOMER

A U.S. based water and sewer infrastructure construction company.

APPLICATION

A large scale construction project in South Central U.S. which will expand 100+ miles (160+ km) of existing lakewater supply lines that are more than fifty years old. The new transportation lines are designed to supply water for over one million residents, supporting future community growth for decades to come.

CHALLENGE

Water supply pipelines frequently use butterfly valves because their compact design, light weight, and quick quarter-turn operation make them ideal for managing large volumes of water. To ensure long-term reliability with minimal maintenance, this project design team specified triple offset butterfly valves for critical areas of isolation and flow control. In addition, requirements included a custom flat-face for the valve design, with a 2 inch (51mm) square nut gear operator for underground service.

SOLUTION

Bray worked closely with the general contractor, providing exceptional support to meet the unique valve requirements while offering a competitive package to reduce overall project costs. The recommended solution included Bray's TriLok® Series triple offset butterfly valves paired with manual gear operators.

The TriLok® Series provides ideal benefits for this high-pressure application:

- > Triple offset geometry reduces seat wear and extends service life.
- > Torque-seated metal-to-metal sealing ensures reliable bidirectional zero leakage shutoff.
- > Field-replaceable seat and seal system minimizes downtime and repair costs.

RESULTS

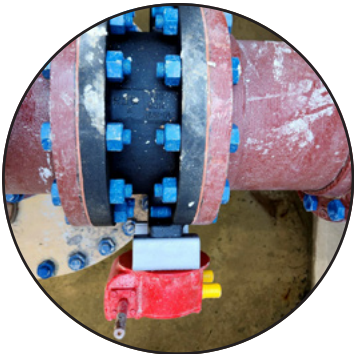
After an initial approval phase early in the process, Bray was ultimately chosen as the **only approved provider** for triple offset valves on all seven phases of the project, delivering a **total of 477** valve and gear operator packages for the water supply project.



TriLok® triple offset butterfly valve with custom flat face.

BRAY PRODUCT DETAILS

Valve	TriLok Series triple offset butterfly valve.
Size	NPS 6, 10, 12, 14 DN 150, 250, 300, 350
Pressure Class	ASME 150 PN 10
Modifications	Flat face required.
Operator	Gear operator; 2 inch 51 mm square nut required.



Installation of TriLok® triple offset butterfly valve with manual gear operator.