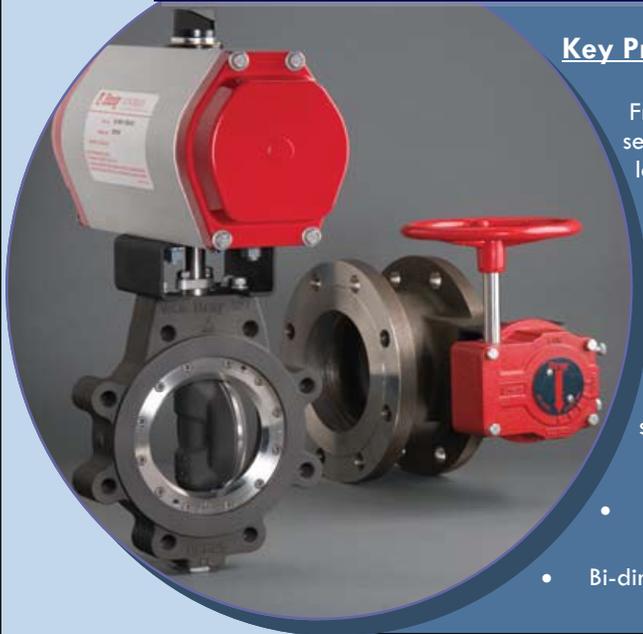


Tri-Lok Triple Offset Valve Solves High Temperature Steam Problem at Major University

A major university uses steam from their powerhouse and distributes it to the campus through nine miles of underground tunnels. The steam temperature is either 250°F or 300°F depending on the use, however, if there is a system upset the steam temperature can reach up to 600°F.

Problem: Most of the valves in use in the universities steam distribution system are ANSI Class 150 High Performance Butterfly Valves. Construction is typically carbon steel body, stainless steel disc and shaft, with Teflon seats and packing. This type of construction is only rated to 500°F therefore, another seat and packing option was necessary to meet the universities requirements.

BRAY CONTROLS TRI-LOK TRIPLE OFFSET BUTTERFLY VALVE



Key Product Features:

- Frictionless, metal to metal seal allowing for zero leakage
- High temperature graphite seal prevents stem omission and fire hazards
- Replaceable body seat and disc seal
- Raised Body Hubs
- Bi-directional shut off

The packing material problem was easy to solve with an upgrade to Graffoil. The seat construction was more difficult because there is not a resilient seat material on the market that is rated above 500°F, the only seat material option was a metal seated design that would handle the temperature.

The question then became one of shutoff rating for the valve. Typical metal seated ANSI rated butterfly valves are only ANSI Class IV and leak. Metal seated gate valves not only leak, they are expensive, heavy and take up a lot of space.

Solution: The customer after considering all of the above challenges chose Bray's "Tri-Lok" triple offset butterfly valve. One of the many key features of the valve is its "Zero" leakage rating. This metal to metal seated valve uses a triple offset design that eliminates rubbing of the seat and seal during opening and closing of the valve. Thus seat and seal life are greatly extended giving the customer many years of trouble free service. Bray's "Tri-Lok" valve is unique amongst triple offset valves in that both the seat and the seal rings are field replaceable. This feature is much appreciated by the maintenance department personnel.