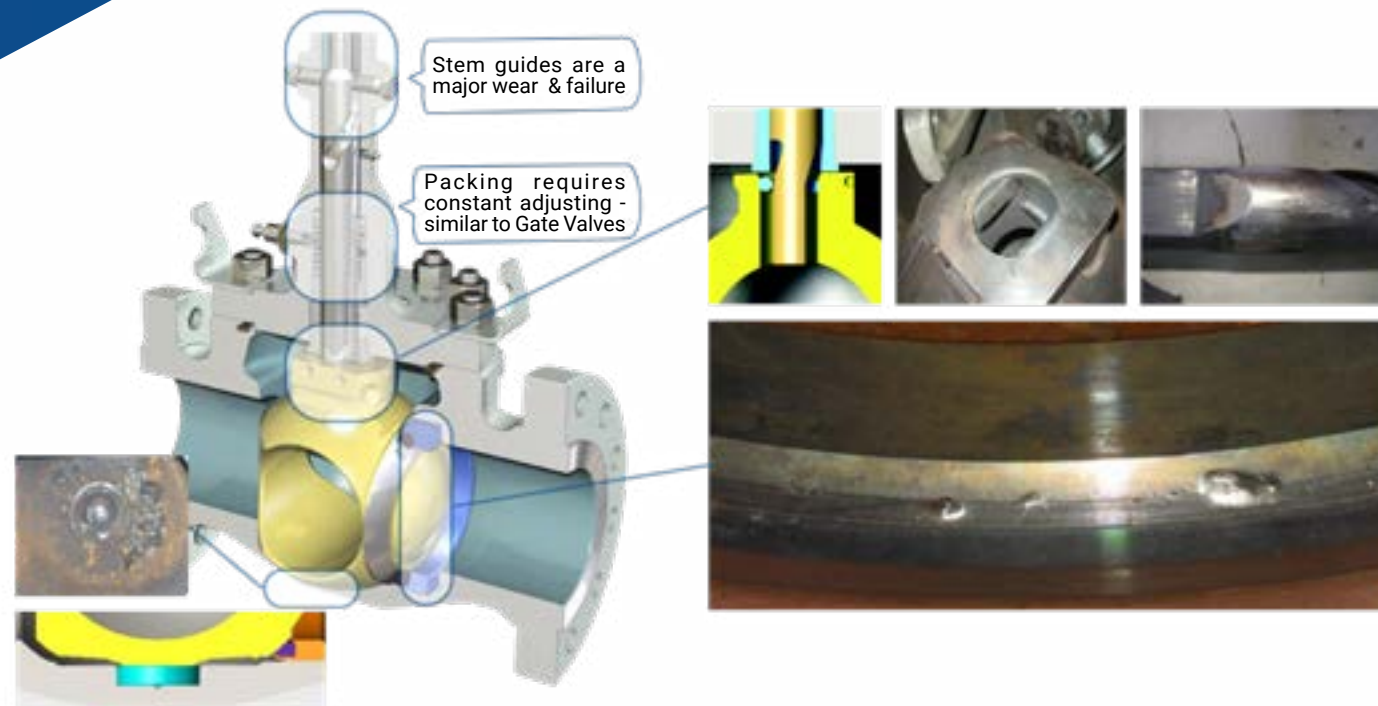


Reliable Replacements for Rising Stem Ball Valves

Ensure total reliability in the toughest operating environments

- Increase Reliability
- Reduce Operating Costs
- Lower Emissions
- Prevent Product Loss

Why Replace Rising Stem Ball Valves?



Traditional rising stem ball valves are prone to wear, high emissions, and frequent maintenance due to their linear motion and packing stress.

- Emissions up to 500x higher than modern valve designs
- Inconsistent shutoff performance causing lost product and efficiency
- High maintenance and costly repairs from constant wear and stem guide failure

A Smarter Solution: Emerson AEV & Vanessa Technologies

AE Valves and Vanessa Triple Offset Valves offer a superior alternative to rising stem ball valves, providing zero-leakage performance, enhanced sealing, and longer service life. Their metal-seated, torque-seated designs eliminate wear, while quarter-turn operation reduces packing stress, lowers maintenance, and ensures compliance with low-emission standards.



Better By Design: AEV C-Ball & Vanessa TOV

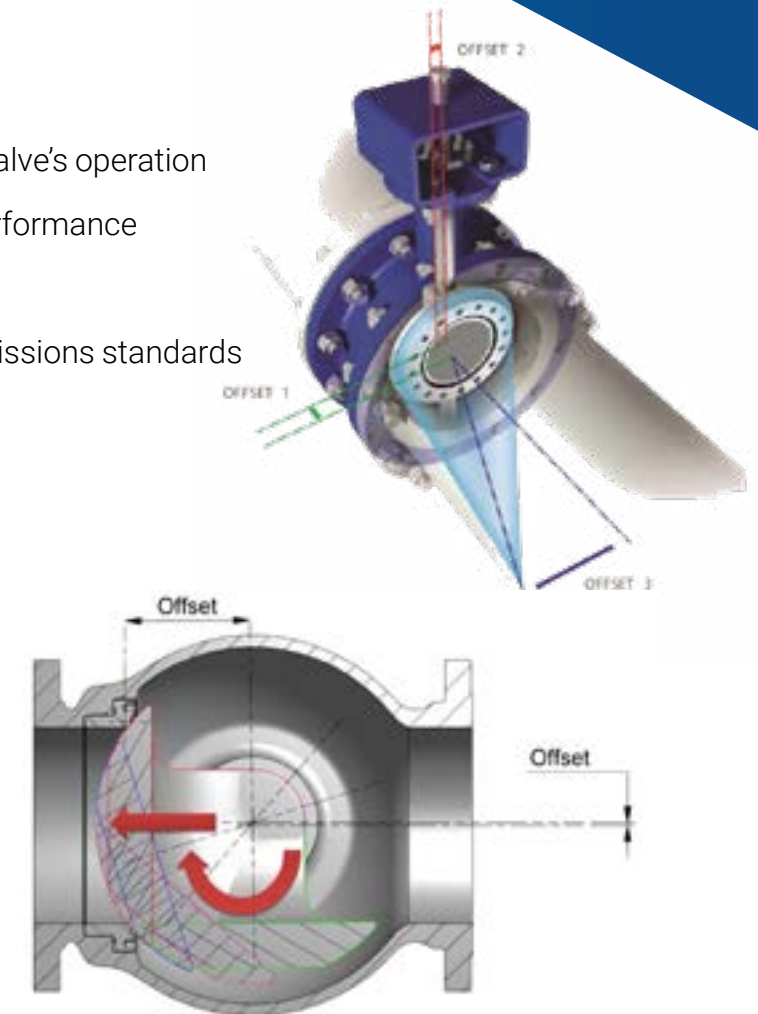
Vanessa Triple Offset Design

- Ensures zero rubbing or wear throughout the valve's operation
- Delivers reliable bi-directional, zero-leakage performance
- Efficient quarter-turn actuation
- Complies with the industry's most rigorous emissions standards

AEV C-Ball Configuration Benefits

Harness the benefits of a double-eccentric configuration integrated into a full-port C-ball design.

- Utilizes the same non-rubbing technology inherent in double-offset mechanisms
- Convex-on-convex seat geometry
- Engineered to address the challenges of nearly any application with precision and reliability



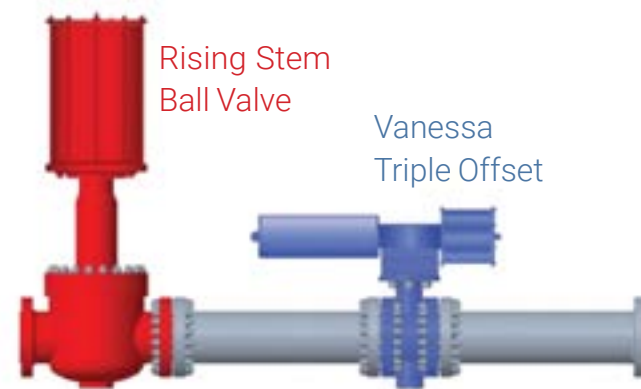
Built for the Most Demanding Applications

Our solutions are engineered for precision, reliability, and durability in:

- Molecular-Sieve / Gas Dehydration
- Coker Switching
- Hydrogen
- Catalytic Cracking
- Main Steam
- Turbine Bypass
- LNG Liquefaction Trains
- Ammonia
- Chemical Recovery
- Black Liquor
- Pulp Processing
- And many more!

Backed by Emerson, Delivered by Applied: Our Expertise

With over 300,000 Vanessa valves installed worldwide, Emerson offers a proven solution for long-term positive isolation, on-off control, flow regulation, and emergency operations. As the first triple offset valve to achieve bidirectional zero leakage*, Vanessa set a new industry standard unmatched by other quarter-turn valves.



Emerson's AE valves provide a high-performance replacement for rising stem ball valves, offering a more compact, reliable, and cost-effective solution. With fewer moving parts and double-eccentric technology, AE valves reduce maintenance, improve sealing performance, and enhance actuation efficiency. Backed by Emerson's expertise, they optimize positive shutoff while minimizing downtime and operational costs.

Our Experience

Trusted by Industry Leaders Worldwide



Learn More

Additional Resources

[Replacement of Rising Stem Ball Valves](#)

[AE Valves](#)

[Vanessa Triple Offset Valves](#)

[Connect with a Specialist](#)



Emerson Impact Partner



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