Vanessa™ Series 30,000 Triple Offset Valves

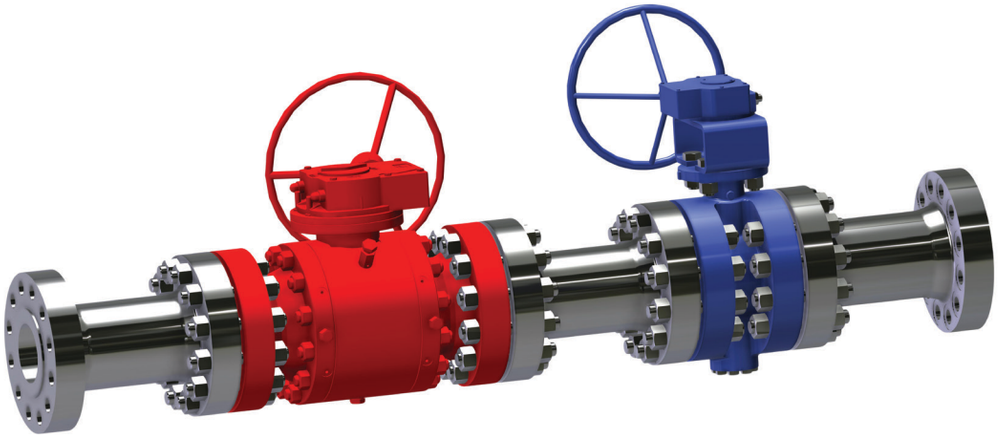
Drive cost out of your projects and ongoing operations with superior technology.

Reverse the tide of dwindling project profitability and rising operational costs

You are continually being challenged to deliver projects with reducing budgets and to run your operations with diminishing resources. Valves represent a significant portion of these installed and ongoing costs as you consider the implications of safety, emissions, size, weight, and maintenance. But what if there was a way to drive improved performance at a lower installed and operational cost?

One decision opens up a world of benefits

Emerson's Vanessa Series 30,000 triple offset valve is your smart solution to replacing ball and gate valves with a highly efficient and effective substitute. The compact design and minimal maintenance requirements of the Series 30,000 reduce the possibility of unscheduled downtime, valve leakages or systemic failures in critical applications - delivering longer life and lower total cost of ownership. Make the switch to the Vanessa Series 30,000 triple offset valve - and see the immediate benefits of a smaller footprint, reduced weight, and lower installation costs.



VANESSA™

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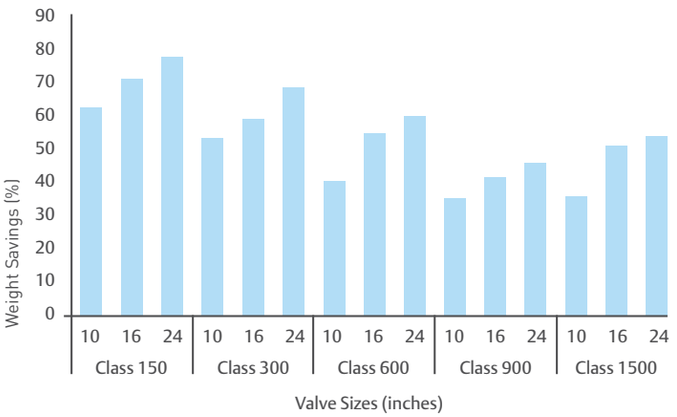
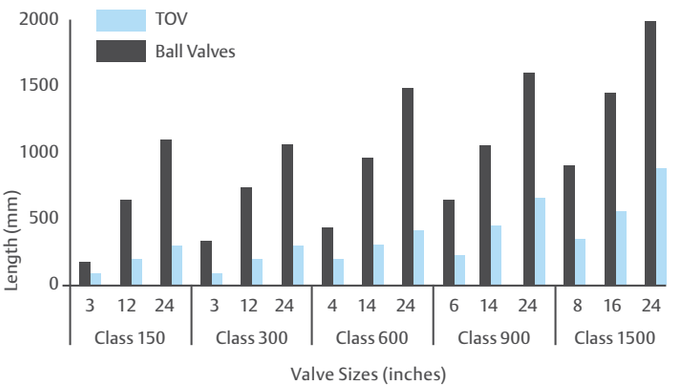
Deliver safer, lighter, more compact process designs, all at a lower total installed cost

A comparison between triple offset valves and trunnion mounted reduced bore ball valves



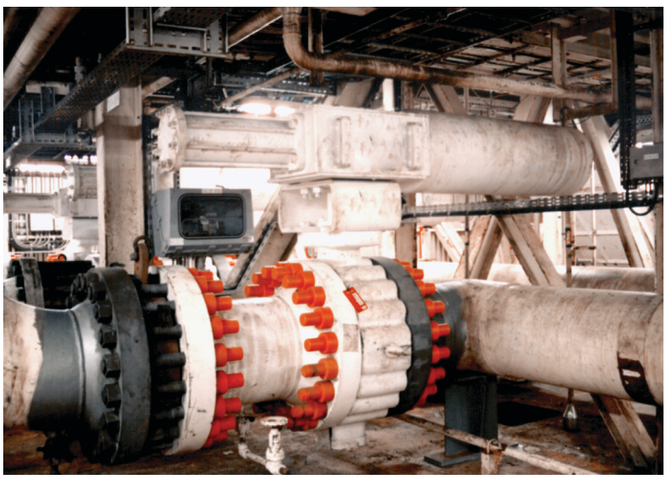


Reduced Weight

Triple offset valves are up to 80% lighter than a comparable ball valve thanks to lower material use. In class 1500, triple offset valves are more than 50% lighter, which in absolute weight terms is an outstanding difference able to generate significant cost savings.

More Compact

Triple offset valves feature a significantly shorter face-to-face which positively impacts the overall plant design. With laying lengths shorter by approximately 2/3 compared to ball valves (API 6D), designers can reduce skid envelope dimensions and multiply the design benefits.



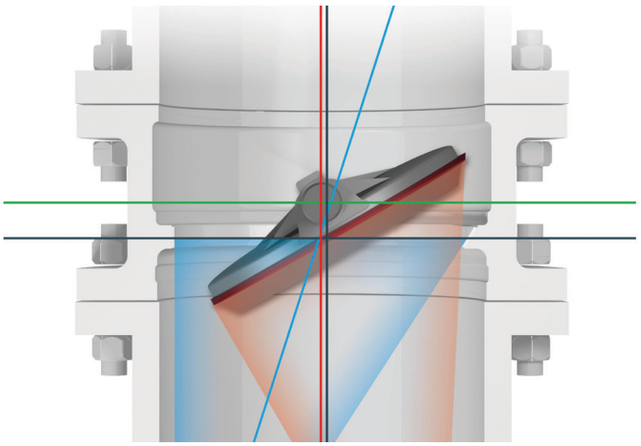
Isolation and Control In One

The valves' isolation and control capabilities can be combined in a single product, eliminating the usual requirement for two distinct valves, further reducing installed cost, weight, and footprint.

Improved Safety Integrity Level (SIL)

Vanessa valves can also contribute to reducing systemic failures. Their asymmetric design means they have an intrinsically higher SIL, compared to other valves as they are capable of supporting the protecting function even in case of actuator failure.

Improve your process performance and reduce operating costs

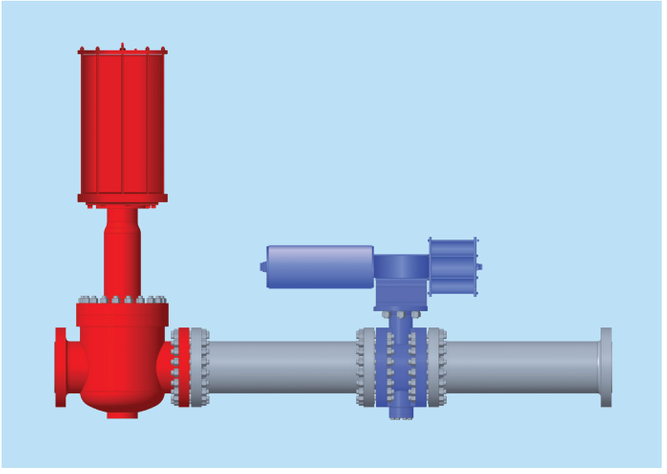


Simple Change Out

You can switch to Vanessa TOVs for improved process performance without the need for piping modification. Vanessa long face-to-face valves are designed in accordance to ASME B16.10 for simplified replacement upgrade of gate, ball, and globe valves.

No Required Maintenance

A non-rubbing design and zero cavities for solids accumulation eliminates the need for planned maintenance in most applications. For mandatory maintenance, simple, interchangeable spares are available at a lower cost compared to gate valves.



Minimized Fugitive Emissions

Vanessa valves improve process performance and reduce fugitive emissions with their quarter turn rotation design that eliminates any negative effects on packing caused by rising stems, such as extrusion and abrasion.

Lower Cost of Actuation

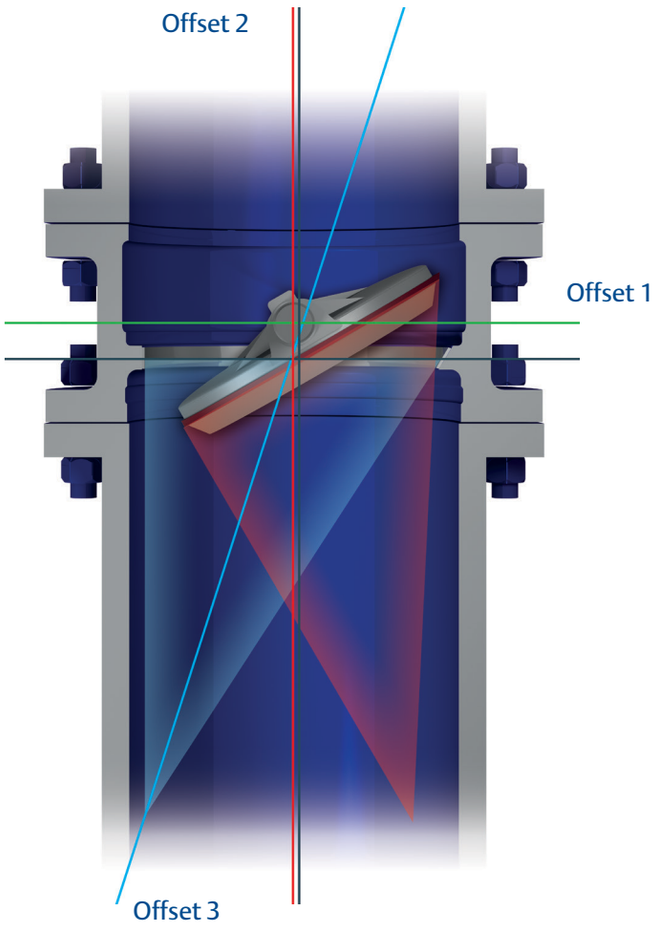
Thanks to the non-rubbing, metal-to-metal, quarter turn rotation, Vanessa valves feature a lower and consistent torque demand over the entire lifecycle, allowing for minimized safety factors and therefore reducing the actuator footprint and sizing.

Developing the world's leading triple offset valve technology

Emerson first developed the triple offset valve concept more than 40 years ago, and the innovation hasn't stopped since.

The Vanessa Series 30,000 is the ultimate process valve - better equipped to deliver the metal-to-metal torque seated, quarter turn non-rubbing rotation your applications demand.

Our experienced people and state-of-the-art manufacturing facilities strive to deliver expert customer service and precision engineering so can benefit from reduced costs and superior technology.



WATCH NOW

Click or scan the QR code with your smartphone to learn more about how this innovative design works.

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