



Vanessa™ Series 30,000 Triple Offset Valves

Safe and reliable cryogenic LNG process isolation and control, solved.

Deliver reliable performance and absolute safety in your cryogenic LNG processes

Working closely with LNG producers around the world, we have seen how damaging downtime and systemic failures can be, as the demand for greater efficiency drives process pressures ever-higher. And in this climate, producers are being challenged to find safer and more reliable ways to address issues such as:

- Fugitive emissions
- Leakage across the valve seat
- Stringent safety requirements, particularly regarding inline access
- Reducing space and weight to facilitate modularization

These are formidable challenges, but they can be overcome with the help of an expert valve partner.

The definitive cryogenic triple offset valve

Emerson's Vanessa Series 30,000 cryogenic triple offset valve has been designed specifically to solve these challenges, featuring:

- Quarter turn non-rubbing rotation
- High operability and zero maintenance on several applications
- Reduced footprint and weight
- Metal to metal torque seating



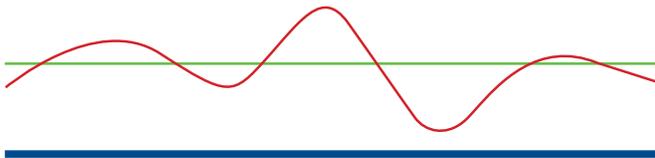
VANESSA™


EMERSON™

The premiere solution for LNG applications

Handle severe temperature fluctuations with ease

Tightness and operability are unaffected by severe temperature fluctuations due to the single seating plane and appropriate material selection, making Vanessa TOVs the ultimate solution to long-term isolation, flow control, and emergency operations.



Tightness
Temperature

Meet stringent design specifications and approvals criteria

Vanessa TOVs have been designed in close collaboration with LNG producers to ensure that these valves meet and surpass operability, tightness, fugitive emissions and safety specifications.

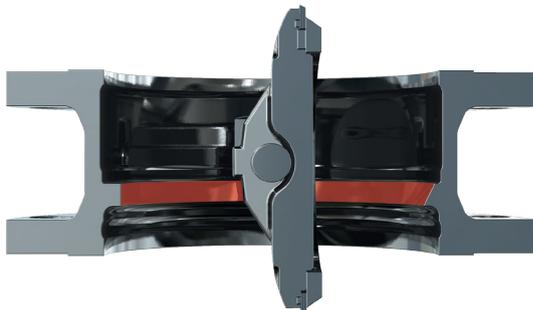
Vanessa valves are also Type Approval Tested (TAT) by a major Oil & Gas end user simulating either inline/offline tightness after repeated open/close cycles under maximum design pressure with helium - in both cryogenic and ambient conditions.



Extended bonnet is BS6364 compliant

Significantly reduce risks related to high fluid flammability

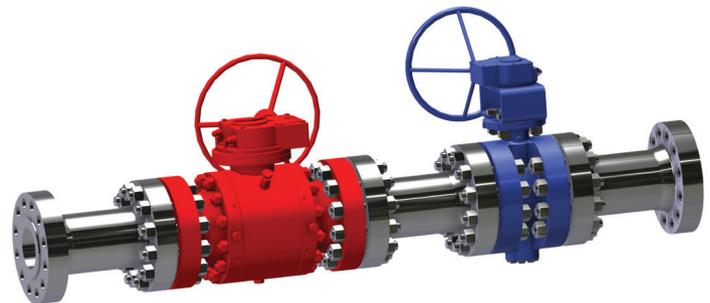
The full metal construction, ensures an inherently fire safe design reducing risks related to high fluid flammability (gas vapors) enables a highly reliable product shut-down and minimizing maintenance throughout the LNG supply chain.



Full metal construction with solid seal rings in Nitronic 50 and wear-resistant Stellite Grade 21 seat overlays

Improve process performance while driving out cost

Vanessa TOVs pack a punch with class-leading performance in a compact design. With a reduced footprint and weight, you can drive cost out of your designs, particularly on process equipment skids.



Vanessa TOVs can be up to 80% lighter and 60% more compact than comparable ball valves

Achieve in-line access with the Vanessa buttweld top entry valve

Overcome pipe load stress and ensure tightness at higher pressures

The buttweld top entry valve configuration has been developed specifically to comply with the stringent safety requirements in cryogenic LNG production, in particular to minimize fugitive emissions by utilizing buttweld ends and ensure the ability to perform extraordinary repairs to trim components.

- All internal components can be completely removed to fulfill inline access requirements, when inline access is mandatory
- The fully metal construction, ensures an inherently fire safe design
- A reduced number of flange connections complies with the latest safety standards (EN 1473 - NFPA 59A)
- A virtually maintenance free valve requires no specific maintenance programs



The informed choice - Top vs side entry design

Vanessa Top Entry Design

TRIM ACCESORIES

- Trim can be completely removed from the body
- No exposure to safety risks for personnel
- Disc screws are securely retained

MAINTENANCE

- Top flange is minimally affected by pipe loads
- No regular maintenance required thanks to 100% metal seating
- The entire valve trim can be extracted from the body and individual parts can be accessed in total safety offline



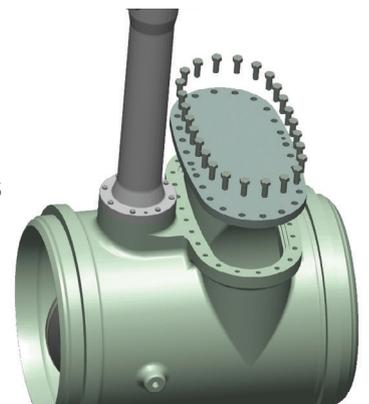
Competitor Side Entry Design

TRIM ACCESORIES

- Maintenance requires direct exposure to safety risks
- Personnel are exposed to accidental valve stroke/ gas leakage
- Large sizes require personnel to enter valve body

MAINTENANCE

- The side flange is affected by pipe loads
- Maintenance limited by valve size and pressure class
- Difficult/ impossible to access valve internals for smaller sizes



Developing the world's leading triple offset valve technology

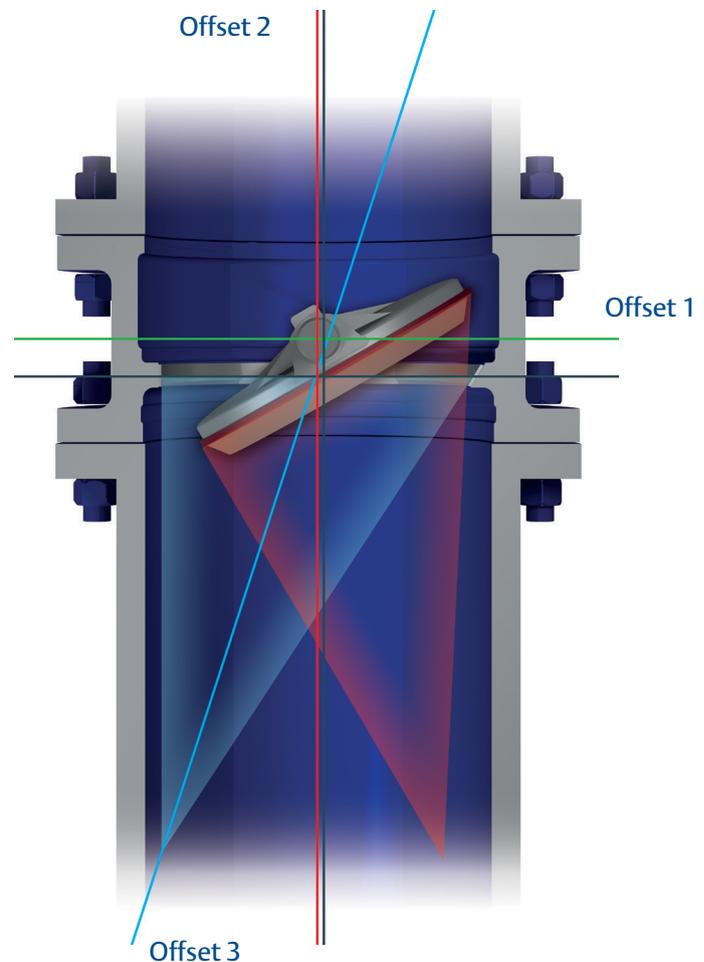
Emerson first developed the triple offset valve concept more than 40 years ago, and the innovation hasn't stopped since.

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 consider your LNG process isolation and control challenges solved.



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



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