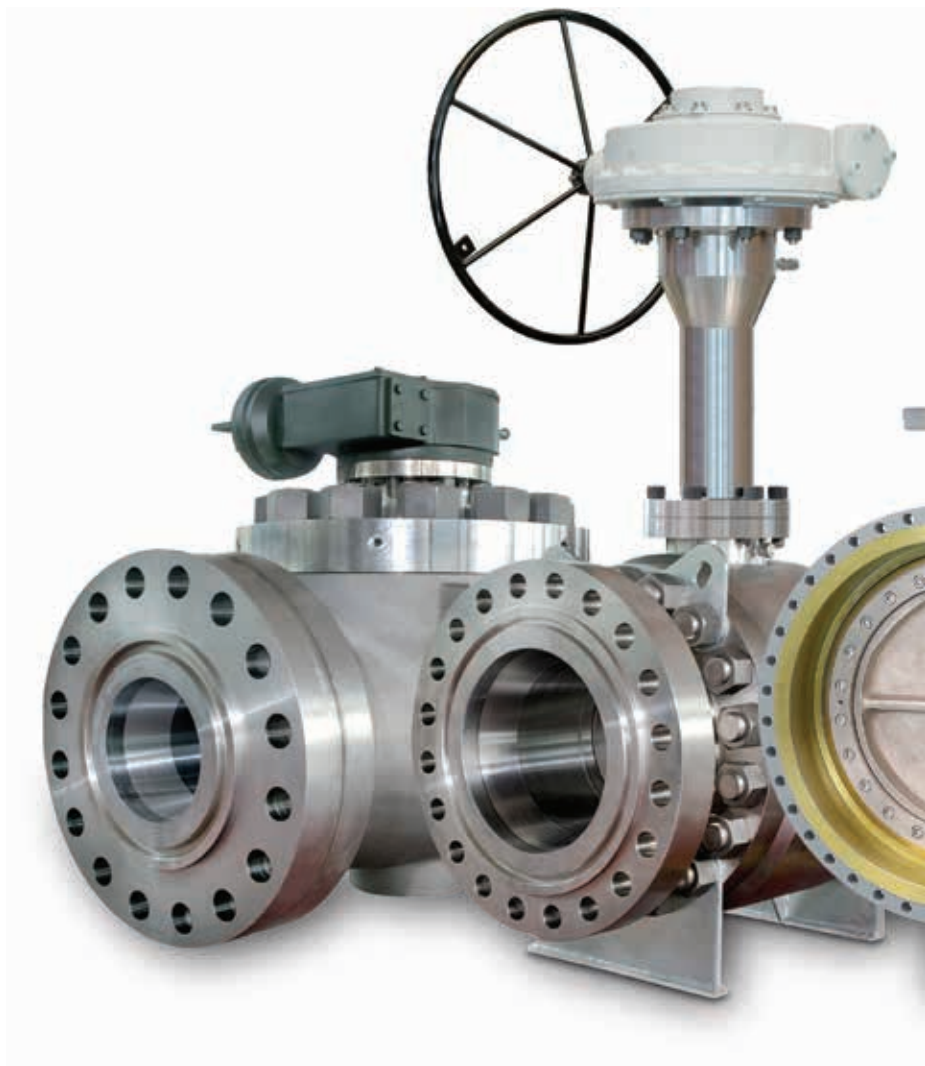




**Complete Solutions
from Design to Delivery**

**Virgo Valves help you maintain quality
throughout your process life cycle**

Your Challenges, Our Solutions.



RELIABLE PRODUCTS AT A COMPETITIVE PRICE

Emerson's investment in superior manufacturing equipment, an ongoing commitment to keep their employees well-trained and the quest for upper quartile performance are just a few items that drive our mission for the highest in-class quality. At the same time, our global supply chain and manufacturing allows us to produce products at very competitive prices when compared to other high-quality valve manufacturers.

EXPERT PROJECT MANAGEMENT

Virgo valves have been supplied to over 2,300 projects around the globe, both large and small. We help our customers maintain project certainty by presale design collaboration, a structured project execution process and maintaining flexibility throughout the manufacturing process. The result is a responsive supplier that supports you throughout the process and meets the promised delivery dates.

PASSION FOR INNOVATION

Virgo Valves product designs are the result of decades of experience. Our engineers are equipped with the latest software tools to provide a fully integrated solution comprised of product, documentation, verification and validation. All Virgo Valves are produced in conformance with API and BS requirements. Our manufacturing facilities and products are licensed with API and we hold other prestigious certifications such as ISO 9001-2000, CE, SIL3, GOST and ATEX. Our passion for innovation ensures your valves meet or exceed standards.



SINGLE POINT ACCOUNTABILITY

Emerson owns the complete process from design, manufacturing, assembly, automation, proof testing, integration, and lifecycle coverage. Emerson goes to great lengths to maintain full process accountability that only a few industry-leading manufacturers can provide. This includes having our own in-house foundry, which enables Emerson to maintain the highest quality standards on all Virgo products.

LOCAL SUPPORT AND A GLOBAL PRESENCE

Our vast network of Sales Offices and Local Business Partners (LBPs) are available to support our customers around the globe. We provide our customers superior pre- and post-sales support, local inventory as well as a comprehensive range of other services.

SAFE, PROVEN PRODUCTS

We are committed to delivering quality products that meet or exceed our customers' expectations. This commitment starts with thorough testing of our products to ensure they comply with the latest standards and maintain the highest safety ratings. These products are then certified by respected third party organizations. Our commitment is backed by years of experience in many of the most demanding applications around the globe. We have supplied over 1 million valves to more than 150 of the world's leading EPCs, OEMs, and end users and they keep coming back to Emerson over and over.

Ball Valves



FLOATING DESIGN BALL VALVE



TRUNNION MOUNTED BALL VALVE

SIZE	1/2" to 10"	2" to 60"
RATING	150# to 1500#	150# to 2500#
END CONNECTIONS	1/2" to 10" – Flanged (Raise Face / Flat Face / Ring Type Joint) and Butt Weld Ends 1/2" to 2" – Also available in socket weld and threaded connections	Flanged (Raised Face / Flat Face / Ring Type Joint), Butt Weld Ends and Hub Ends
FEATURES	API 6A & 6D Design, NACE, Blowout Proof Stem, Antistatic Device, Fire Safe, SIL3 Certified	API 6A & 6D Design, NACE, Double Block and Bleed, Self Relieving or Double Piston Effect Seats, Emergency Seat and Stem Sealant Injection Facility, Blowout Proof Stem, Antistatic Device, Fire Safe, SIL3 Certified



CRYOGENIC

Specially designed seats and seals automatically compensate for wear and fluctuation of pressure and temperature in harsh environments down to -196 °C / -321 °F.





METAL SEATS

Used in high-temperature / high-pressure process environments.* For improved performance, both the ball and seat are hard faced with tungsten carbide or chrome carbide using a High Velocity Oxygen Fuel (HVOF) process. The metal seat provides resistance to abrasion, extended life and wear resistance due to its hardness.



WELDED BODY

Welded body construction eliminates body flanges, increases resistance to pipeline pressure and stresses, and are often used in buried services.



TOP ENTRY

Available in size range of 2" to 60" and in pressure classes of ASME 150# to 2500#. These valves are engineered for critical service applications with full inline field reparability and are designed to withstand severe pipeline stresses associated with the application.

*For extremely dirty process flows, consult factory or sales agent.

Triple Offset Valves



TRIPLE OFFSET VALVE

SIZE	3" to 56" and above
RATING	150# to 900#
STYLE	Double flanged Lug Wafer Butt Weld
FEATURES	Zero Leakage, Fire Safe, Low Operating Torque, One Piece Shaft with Blowout Proof Design, Adjustable Shaft Seal for Low Emission, SIL 3 Certification, NACE

WORRY FREE OPERATION

The Virgo Triple Offset is a quarter-turn, metal seated, zero leakage valve that is also lightweight. It offers low operating torques, fast cycles, an inherently fire-safe design, a one-piece shaft with blowout-proof construction, sealed bearings, and adjustable shaft seals for low emissions.



For more information on how Virgo Valves can provide a solution for your process, please contact your local Emerson Process Management representative.

Complete Capabilities



AUTOMATION

Virgo Valves can be automated to meet your unique system requirements. With our low operating torque and universal ISO mounting design, we can provide solutions for isolation, emergency shutdown, remote operated SDV's and safety instrumented systems (SIS-SIL3 certified).

TESTING

With over 700,000 square feet of world-class facilities—including our own foundry—we have in-house equipment to perform specialized and non-destructive testing, including: fire safe, fugitive emission, cryogenic, micro-structure and metallurgical, vacuum, high pressure, radiography, magnetic particle, and dye penetrant.

CUSTOM SOLUTIONS

Virgo has the engineering expertise to provide a customized solution to meet unique requirements, including: special coatings, claddings and overlays, stem extensions, fire proof enclosures, and steam jacketing.

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