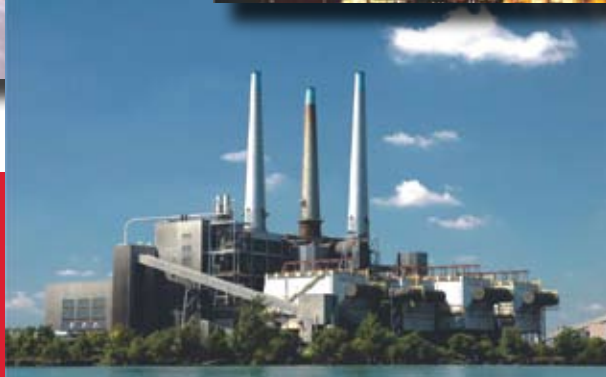




**Severe Service
Ball Valves** ©



Understanding expectations, delivering satisfaction!

Experience You Can Trust



Metal seated ball valves have proven to be the valves of choice in Severe Service applications where critical shut-off or isolation of flow must be achieved due to safety, environmental or maintenance concerns. With the demand for energy increasing globally and investment in production capacities skyrocketing, the demand for Severe Service valve technology has increased. We at EVS are fully prepared to meet the challenges of serving our customers. Our business strategy is based on trust and respect, ensuring our customer's needs always come first.

Industry Focus

Below is a general overview of the major industries with Severe Service applications where metal seated technology can increase production, decrease down-time and enhance safety. There are many new applications emerging today; from processes to reduce fugitive emissions, to new methods to produce energy from natural resources. Severe applications include temperatures to 1500°F, pressures to 4500 psi, abrasives, corrosives and solids. Other criteria include high cycles and viscous or sticky service media. EVS has a wide range of Severe Service valve options to choose from.

Power Generation
Refining
Chemical and Petrochemical
Oil and Gas
Mining

Pulp and Paper
Food and Beverage
Gasification
Synfuels
Miscellaneous Specialty Industries

**For specific application and valve selection, please contact one of our design application specialists.

Key Features & Benefits

- Full range of designs to meet customer and industry specifications
- Wide selection of body and trim materials to cover any process condition
- Hard coating technologies selected based on service media
- Quarter turn operation for quick opening/closing
- Many standard sizes/materials are stocked for immediate availability
- Lever, manual or automated options with ISO mounting pad
- Smooth transitioned flow paths for optimum flow rates
- Full service automation capabilities for "one source" responsibility and ownership
- Parts are repairable, reducing turnaround and maintenance cost
- Temperature ranges from -150°F to 1500°F
- Pressure ranges from vacuum to 4500 Class

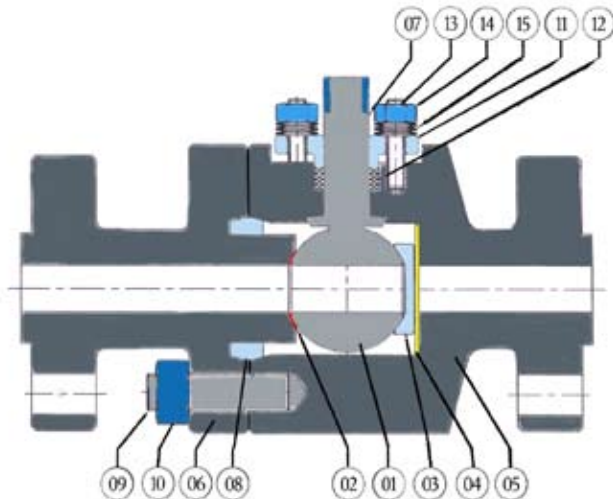
Metal Seated Product Range



- Model EVS-FHP (Floating Ball with Integral Seat Design for Severe Service Water/Steam) 1/2" to 3", 1500, 2500, 4500 ASME Class, A105, F22 and F91 Forged Body Materials, Hard Coated Ball, Socket-weld or Butt-weld end connections. (1/2" to 2-1/2", 1500 and 2500 ASME Class are stocked. Additional sizes/classes/materials/end connections are available upon request).
- Model EVS-FS (Floating Ball with Integral Seat Design for Severe Service Temperatures, Pressures and Service Media) 1/2" to 36" 150 to 2500 ASME Class, Carbon Steel, Chrome Moly, Stainless Steel and exotic body materials, with various trim/coating options or end connections available to fit customer specifications.
- Model EVS-FC (Floating Ball Design for Moderate to Severe Temperatures, Pressures and Service Media) 2" to 8", 150, 300, 600 ASME Class, Carbon Steel, Chrome Moly, and Stainless Steel body materials with 410SS/316SS hard faced ball, with various end connections available to fit customer specifications.
- Model EVS-TC (Trunnion Ball Design for Moderate to Severe Temperatures, Pressures and Service Media) 6" to 16", 150, 300, 600 ASME Class, Carbon Steel, Chrome Moly, and Stainless Steel body materials with 410SS/316SS hard faced ball, with various end connections available to fit customer specifications.
- Model EVS-TOV (Triple Offset "Zero Leakage" Design for Severe Service Temperatures, Pressures and Service Media) 3" to 24", 150, 300, 600 ASME Class, Triple Offset Valve, Carbon Steel, and Stainless Steel body materials with Stellite 21 alloy seat, Duplex SS seal ring, with Flanged and Lugged end connections available.

Basic Components for Integral Seat Models

ITEM	DESCRIPTION
1	Ball
2	Seat Surface
3	Upstream seat
4	Disc Spring
5	Body
6	End Adaptor/Integral Seat
7	Stem
8	Body Gasket
9	Body Stud
10	Body Nut
11	Packing Gland
12	Stem Packing
13	Gland Stud
14	Gland Nut
15	Gland "Live Loaded" Springs



Quality, Testing and Service

- Valves comply to ASME B16.34 and other national standards, see individual valve data sheets for complete list of standards and codes.
- Valves for steam service are tested to API 598 with water and nitrogen for "zero leakage".
- Service is a vital part of our business with 24 hour access to our EVS quick response team.

Introduction to EVS

As part of a growing International Valve Group, EVS brings forth a new era in Metal Seated Ball Valve technology. Evolving from a proven team with over 80 years combined expertise; EVS understands your Severe Service application challenges, and appreciates your need to increase efficiency and production.

The Engineering and Technology Department is directed by Marvin Beasley, P.E., a pioneer in the development of Severe Service valve technology and a respected expert in this field. Along with his experienced colleagues, this team is ready to tackle your harshest Severe Service application needs.

EVS valves are manufactured, assembled and tested in the company's new state of the art manufacturing facility located in Stafford, Texas, USA.

EVS evolves from deep Virgo roots

EVS is a wholly-owned subsidiary of the Virgo Engineers Group, a globally successful valve and automation company servicing over 70 countries world-wide. Virgo Engineers is one of the fastest growing valve companies in the world. Virgo product designs are the result of decades of experience and innovation in the Oil & Gas process industry. Our designs are proven performers in the most severe environments. Virgo brand signifies quality and reliability. To learn more about Virgo please visit the website at www.virgoengineers.com



EVS Mission Statement

We at EVS will strive to understand difficult flow isolation or control applications faced by our customers and will work with them to provide a reliable valve solution using sound engineering practices and our extensive industry experience. EVS team members will attain customer satisfaction without compromising good business ethics and our core values.

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