

TRUNNION

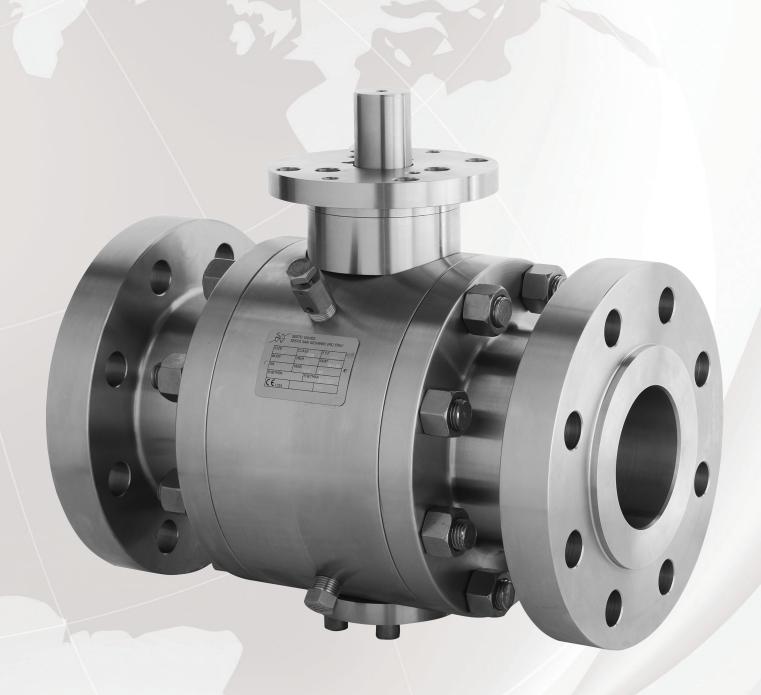














Introduction





Sesto Valves is a premium high performance ball valve manufacturer headquartered in Sesto San Giovanni, Italy. We source only the best materials from our global partners to ensure quality and competitive pricing.

Our valves are 100% manufactured and tested in Italy so we can control our product quality and provide easy traceability. Sesto Valves offers a full line-up of floating or trunnion mounted ball valves, 3-way multiport ball valves, fully welded ball valves and double-block-and-bleed ball valves suitable for any application ranging from standard duty to critical service, including exotic materials and super alloys.

Our products can be supplied as simple manual shutoff valves or with customized automation and controls for unique requirements. Focused on the chemical, petrochemical and energy industry, Sesto Valves provides solutions for exploration, production and distribution as well as a wide variety of industrial applications.



CITY OF SESTO SAN GIOVANNI





Europe World Headquarters Sesto SG, Italy Via Di Vittorio 307/25 20099 Sesto SG Italy

Tel: +39.028.976.1628 Fax: +39.028.976.2167



North America

O'Fallon, Missouri 751 Hoff Road O'Fallon, MO 63366 United States Tel: +1.636.272.4934 Fax: +1.636.272.4937



Asia

Jinan, China
Room 606 Tongyuan
Building, No.68
Tongyuanju Front Street,
Jinan 250012
China
Tal: +86 0531 86917039

Tel: +86.0531.86917039 Fax: +86.0531.86917039



Features and Benefits

Class 150 to Class 2500

Size Range 2" thru 24" (Class Dependent)

Full and Reduced Bore

Body Wall Thickness ASME B16.34

End Connections: RF, RTJ, BW, SW, NPT, BSP, Special

Fugitive Emissions ISO 15848

Fire-Safe Tested API 607

Emergency Sealant Injectors Optional

Anti-Static Device and Live-Loaded Packing

Guided Seat Design

Blowout Proof, Low Torque Guided Stem Design

Wide Range of Soft and Metal Seated Options

Manual, Electric, Pneumatic,

or Electro-Hydraulic Operators Available

Custom Face-to-Face Lengths Available

Certifications and Compliance

Sesto Valves are designed and manufactured to internationally recognized standards including but not limited to the following:

Design: API 6D

Fire Testing: API 607, API 6FA, BS 6755 Part II

Testing: API 6A, API 598, API 17D, ISO 5208, BS 6755 Part I

Marking: API 6A, MSS-SP-25, PED

Certifications: API607, SIL, NACE, MR0175, PED, Fugitive Emissions

Partial List of Applications

Oil & Gas Pipelines

Refineries and Petrochemical Plants

Power Generation

Gas and Coal Fired Turbines

District Heating

Gas Measurement Systems

Offshore Platforms

HIPPS Systems

Cryogenic Service Applications

Emergency Shut Down Valves

Pulp & Paper

Mining

Boiler Steam and Drain Applications

Versatility & Reliability

The Sesto Valves trunnion mounted ball valve design allows for the use of all types and materials of construction and may be installed in any flow configuration and orientation. Customizable spring configurations and guided seat design gives the option for a carbon steel body and end enclosures with a duplex or stainless seat module. Metal seated options are available for a variety of high temperature, corrosive, or abrasive applications. Our experienced team of engineers can design and build the right valve for your exact requirements. Sesto trunnion ball valves are Sil 2 certified, fire tested, FE tested, and built for application specific versatility and long term reliability.

End Connections



Flanged (RF)



Ring Type Joint (RTJ)



Butt Weld



(BW)



Threaded (NPT)



Socket Weld (SW)





Why Sesto?

Sesto Multiport Design	The Sesto Difference
Precision Machined Forged Body	The forged body eliminates the possibility of leakage due to poor castings. Precision finish machining keeps tight tolerances to ensure secure assembly for high pressure, critical applications.
Ball/Seat Lapping	Lapping seats to the ball ensures tight tolerances, improving shut-off sealing capability while lowering torque requirements.
Guided Seat Design	The guided seat design allows for flexibility in materials of construction (end closures vs. seats vs. body), customizable spring configurations for specific pressure relief set points, and ease of maintenance. This design also ensures better concentricity between sealing components to improve sealing performance.

Trunnion Design

Fire-Safe & Fugitive Emissions Certified

Packing arrangement is fire-safe for critical applications and Fugitive Emissions ISO 15848 certified.





Ball/Seat Lapping

All Sesto trunnion ball valves utilize lapped ball and seat sets. This precise manufacturing process ensures the lowest operating torque and the tightest possible sealing capability of the ball and seats, while at the

same time providing for an extremely long service life for the intended application. Lapping is a surface grinding/polishing process where loose abrasive powders are used as the lapping agent to achieve the extremely tight tolerances.



Guided Seat Design

Sesto Valves Guided Seat Design surrounds the seat module within the end closure, Spring Loaded Single or Double eliminating the need to seal against Effect Seats the center body and minimizing leak paths. The sliding seals on the seat module are no longer part of the critical body seal pathway. **Primary** and Secondary **Body Seals** Removable Seat Insert Metal to Metal Contact Over Large Surface Area

Primary and Secondary Seat Module Seals Seat Module Contained in End Closure

Extended End Closure **Guides Springs and Seat Module** Configurable

Options

Seat Springs

Emergency Shutdown (ESD) Valves Welded Body for Municipal Heating Cryogenic

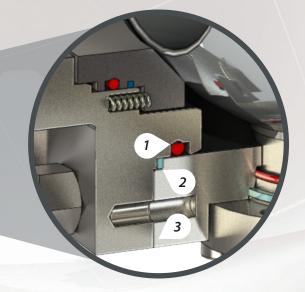
Seat Module

(Replaceable)

Metal-Seated

Double Block and Bleed

Double Isolation and Bleed



Triple Body Seal

(Providing Three Levels of Defense)

- 1. Primary Body Seal (RPTFE) Soft seal for reliable sealing at all pressures
- 2. Secondary Body Seal (Graphite) Provides a fire safe secondary seal.
- 3. Backup Metal-to-Metal Interface Forms a labyrinth seal with a torturous flow path.



Worldwide Headquarters
Via Di Vittorio 307/25 - 20099 Sesto San Giovanni (MI) - Italy
Tel: +39.028.976.1628 - Fax: +39.028.976.2167
www.sestovalves.com - sales@sestovalves.com