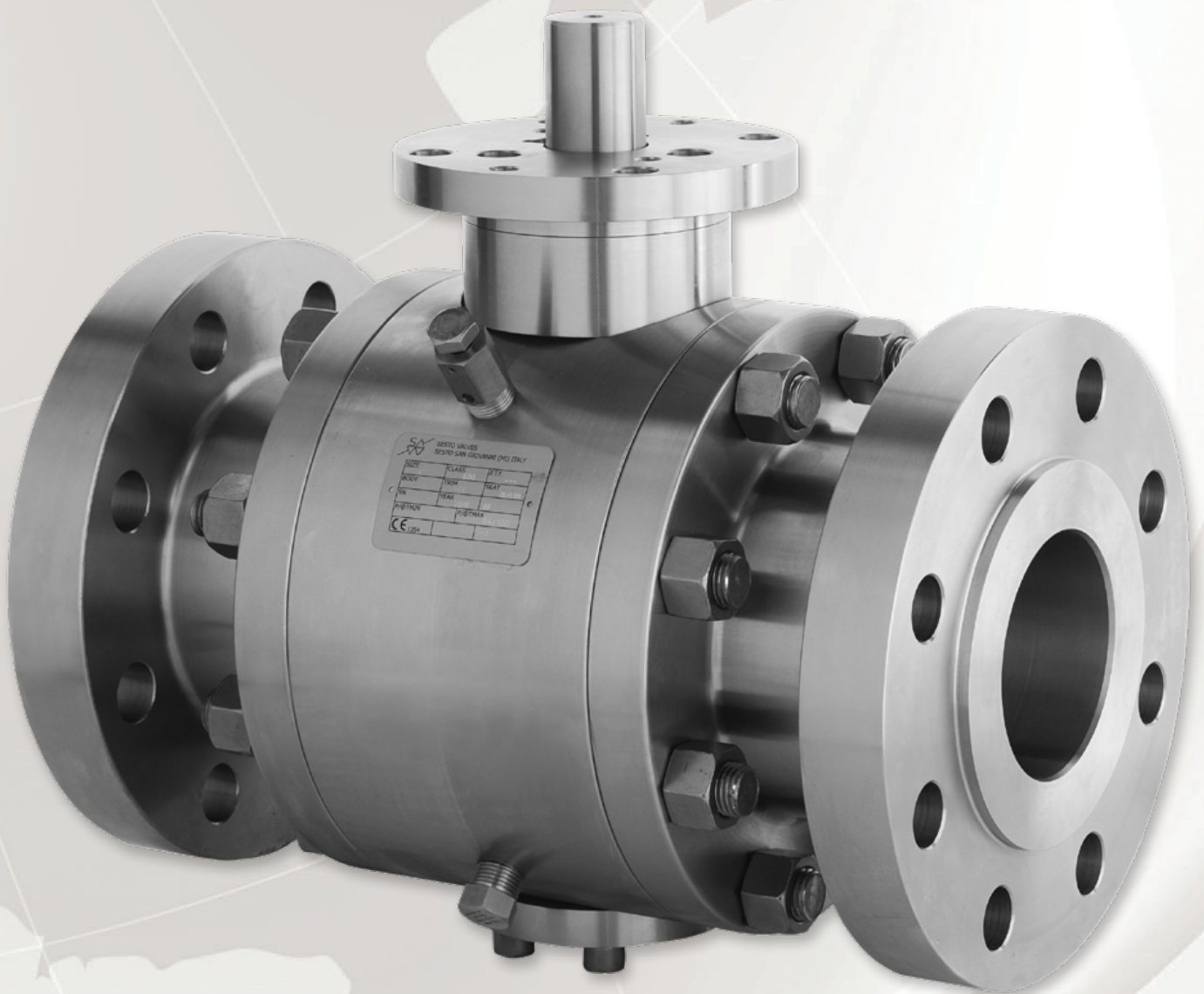


*Trunnion*

**PED**  **CE** **NACE**  **SIL2** Safety Integrity Level 

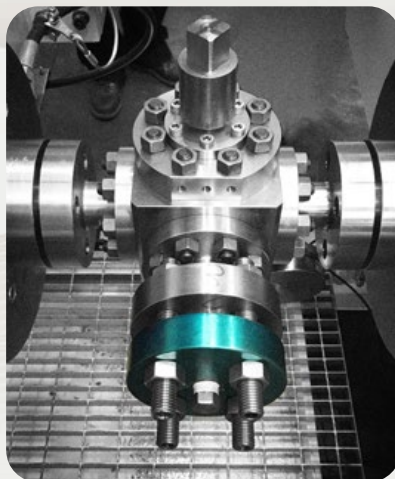
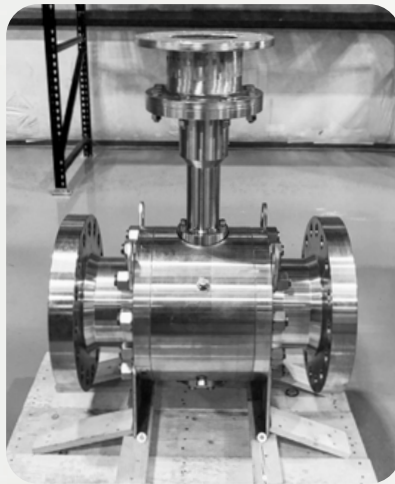


Worldwide Headquarters | Tel: +39.039.902.0888 - Fax: +39.039.902.0889  
 North American Headquarters | Tel: +1.636.856.8576 Fax: +1.636.856.8930  
[www.sestovalves.com](http://www.sestovalves.com) | [sales@sestovalves.com](mailto:sales@sestovalves.com)

# Introduction

**Sesto Valves** specializes in custom designed ball valve solutions for the chemical, petrochemical and energy industries. Applications include cryogenics, extreme high temperatures, metal seated applications, as well as specialty double block and bleed emergency shutdown valve solutions. Headquartered in Agrate Brianza (MB) Italy, we are a premium ball valve manufacturer with over 30+ years of engineering experience. Our valves are 100% designed, manufactured, and tested in Italy with complete control of product quality and material traceability. We source only the best materials from local and global partners to ensure quality and competitive pricing.

Our philosophy is to make valves that fit your application, not the other way around. We match materials and trims to maximize performance and reliability, with ready access to special coatings and exotic or super alloys. Our engineers design valves to optimize fit and function, including special face-to-face, multiport or combination valves for cost and space savings. Our quality team inspects every component and runs extensive performance tests for design verification and production phases, and can also include your own customer specified testing. In order to provide a more complete solution, we partner directly with key valve automation industry leaders to provide actuation and automation controls in a comprehensive valve package. Contact Sesto Valves today with your most difficult valve application and we'll give you our best resources and expertise to help you reach your goals.



**Europe**  
*World Headquarters*  
**Sesto SG, Italy**  
Via Socrate, 10  
20864 Agrate Brianza (MB)  
Italy  
Tel: +39.039.902.0888  
Fax: +39.039.902.0889



**North America**  
*Wentzville, Missouri*  
114 Resource Drive  
Wentzville, MO 63385  
United States  
Tel: +1.636.856.8576  
Fax: +1.636.856.8930

## Features and Benefits

Class 150 to Class 2500  
 Size Range ½" thru 36" (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

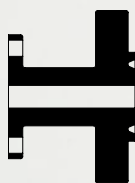
## Versatility & Reliability

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.

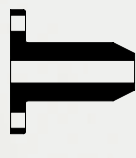
## End Connections



Flanged  
(RF)



Ring Type  
Joint (RTJ)



Butt Weld  
(BW)

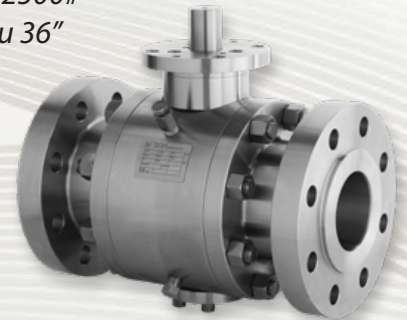


Threaded  
(NPT)



Socket Weld  
(SW)

150# to 2500#  
½" thru 36"



## 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, BS 6364

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

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

## Partial List of Applications

Oil & Gas Pipelines	Offshore Platforms
Refineries and Petrochemical Plants	HIPPS Systems
Power Generation	Cryogenic Service Applications
Gas and Coal Fired Turbines	Emergency Shut Down Valves
District Heating	Pulp & Paper
Gas Measurement Systems	Mining
	Boiler Steam and Drain Applications

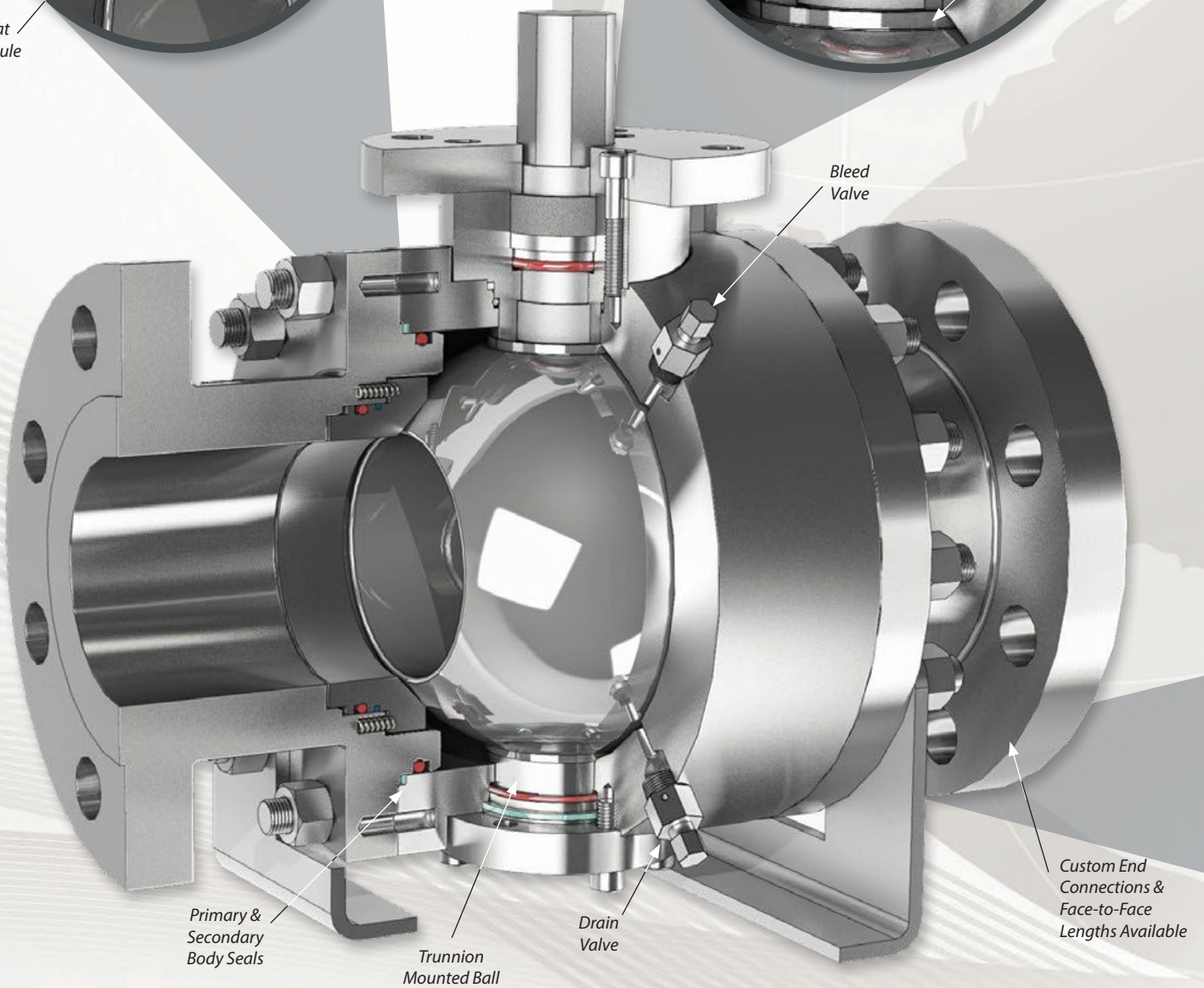
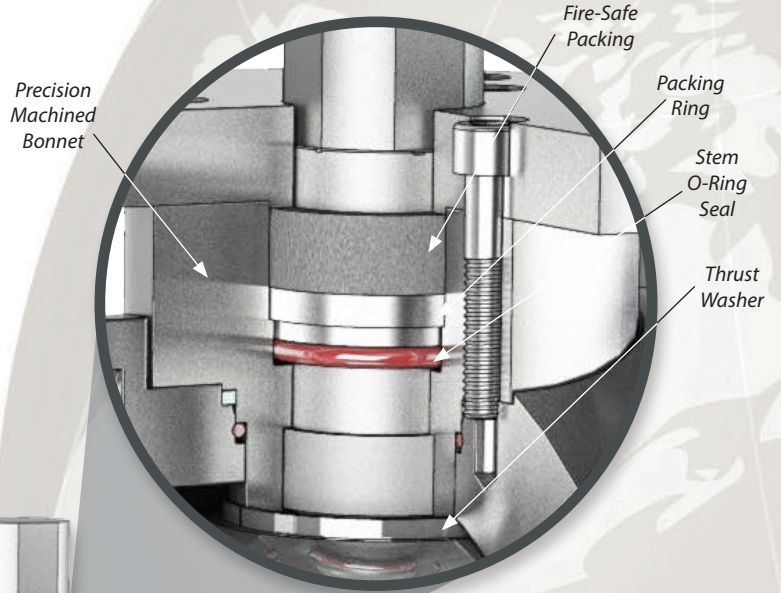
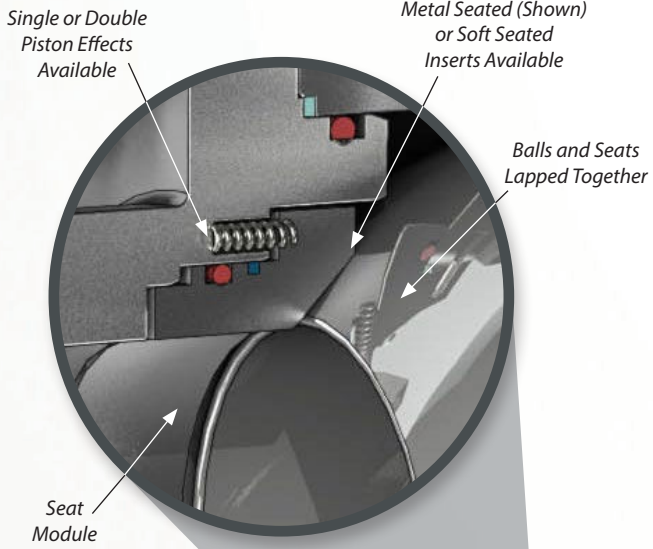
## Why Sesto?

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.



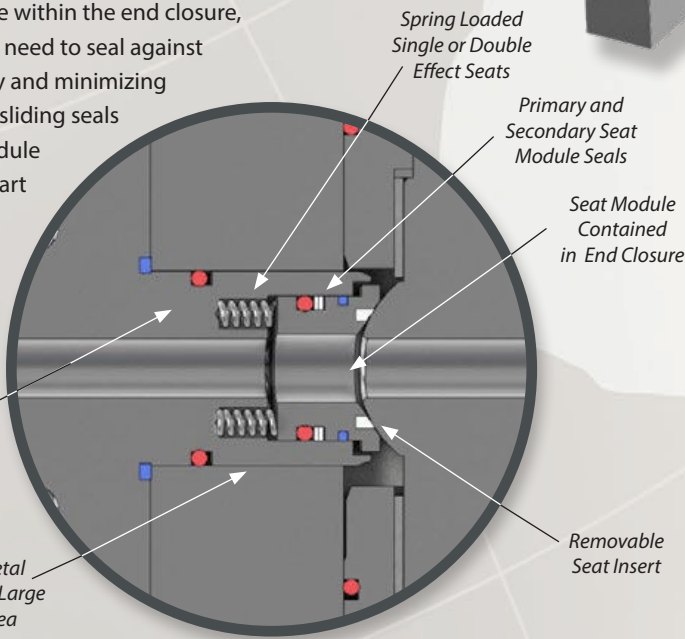
**Ball/Seat Lapping**

Lapped ball and seat sets are utilized when materials and sealing requirements dictate. 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 exceptionally long service life for the intended application. Lapping is a surface finishing process where extremely fine polishing compounds are used as the lapping agent to achieve remarkably close mating surfaces.

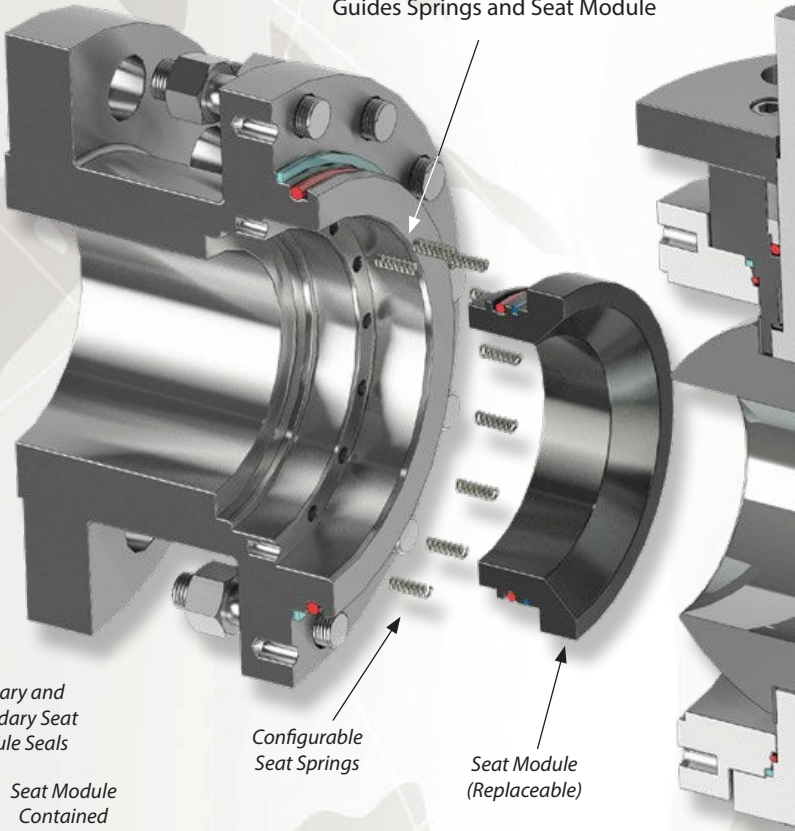


**Guided Seat Design**

Sesto Valves Guided Seat Design surrounds the seat module within the end closure, eliminating the need to seal against the center body and minimizing leak paths. The sliding seals on the seat module are no longer part of the critical body seal pathway.



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

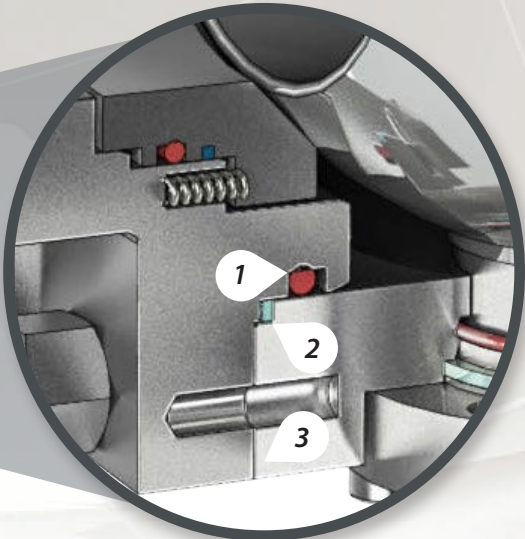


**Options**

- Emergency Shutdown (ESD) Valves
- Welded Body for Municipal Heating
- Cryogenic
- 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 Socrate, 10, 20864 Agrate Brianza (MB) Italy  
Tel: +39.039.902.0888 | Fax: +39.039.902.0889

North American Headquarters  
114 Resource Drive Wentzville, MO 63385 USA  
Tel: +1.636.856.8576 Fax: +1.636.856.8930

Web: [www.sestovalves.com](http://www.sestovalves.com) | Email: [sales@sestovalves.com](mailto:sales@sestovalves.com)

Rev. Jan. 26, 2022