

Cryogenic

PED



NACE



SIL2
Safety Integrity Level

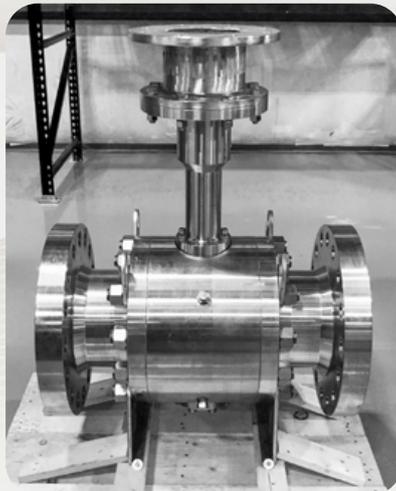


Worldwide Headquarters | Tel: +39.039.902.0888 - Fax: +39.039.902.0889
North American Headquarters | Tel: +1.636.856.8576 Fax: +1.636.856.8930
www.sestovalves.com | sales@sestovalves.com

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 1/4" thru 24" (Class Dependent)
 Floating and Trunnion, Full and Reduced Bore
 Body Wall Thickness ASME B16.34, Forged or Cast Versions
 Cryogenic tested to -196°C (-320°F)
 Fire-Safe Design API 607
 Vented Ball Standard
 Blowout Proof, Low Torque Guided Stem Design
 Live-Loaded Packing and Anti-Static Capable
 Fugitive Emissions ISO 15848
 PTFE, TFM, CTFM, PCTFE (KEL-F®) and Metal Seats Available
 Valves are degreased, cleaned and packaged prior to shipping
 Custom Face-to-Face Lengths Available per Customer Requirement
 Manual, Electric, Pneumatic, or Electro-Hydraulic Operators Available

Versatility & Reliability

The Sesto design allows for the use of all types and materials of construction and may be installed in any flow configuration and orientation. Our 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. We have many different metal seated options 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. Our precision machined innovative design has been tested to the highest standards and may be used in virtually any application with confidence. The Sesto Trunnion Multiport Valve is Sil 2 certified, fire tested, FE tested, and built to last. Reliable repeat performance is our responsibility to you. It is truly a Premium Italian Valve.

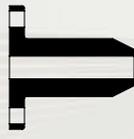
End Connections



Flanged
(RF)



Ring Type
Joint (RTJ)



Butt Weld
(BW)



Threaded
(NPT)



Socket Weld
(SW)



150# to 2500#
1/4" thru 24"

Certifications and Compliance

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

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

Lease Automatic Custody Transfer Units	Regasification
LNG Terminals & Transportation	Chemical Injection Skids
Aerospace Industry	Industrial Chemical Processes
Gas Production Facilities	Cargo and Bunkering Systems
Food & Beverage	Petrochemical Plants

Why Sesto?

Sesto "True Cryo" Solution	The Sesto Difference
Forged 316 Body	The forged body eliminates the possibility of any leaks due to casting defects.
1-PC Extended Stem	Our stem is made of one solid piece extended to the valve body. The packing is insulated and there is no leak path in the extension. Our proprietary extension seal design helps maintain flow temperatures giving the end user energy savings.
PCTFE (KEL-F®) Seats lapped to the ball as standard	Our seats are lapped to the ball giving us very tight tolerance and shut-off while lowering our torques dramatically. Our seats do not leak.
Fully Tested Valves to -196°C (-320F)	We test our valves per industry standards and perform tests to Cryogenic Temperatures -196°C (-320°F) and then test again at ambient temperature with water.

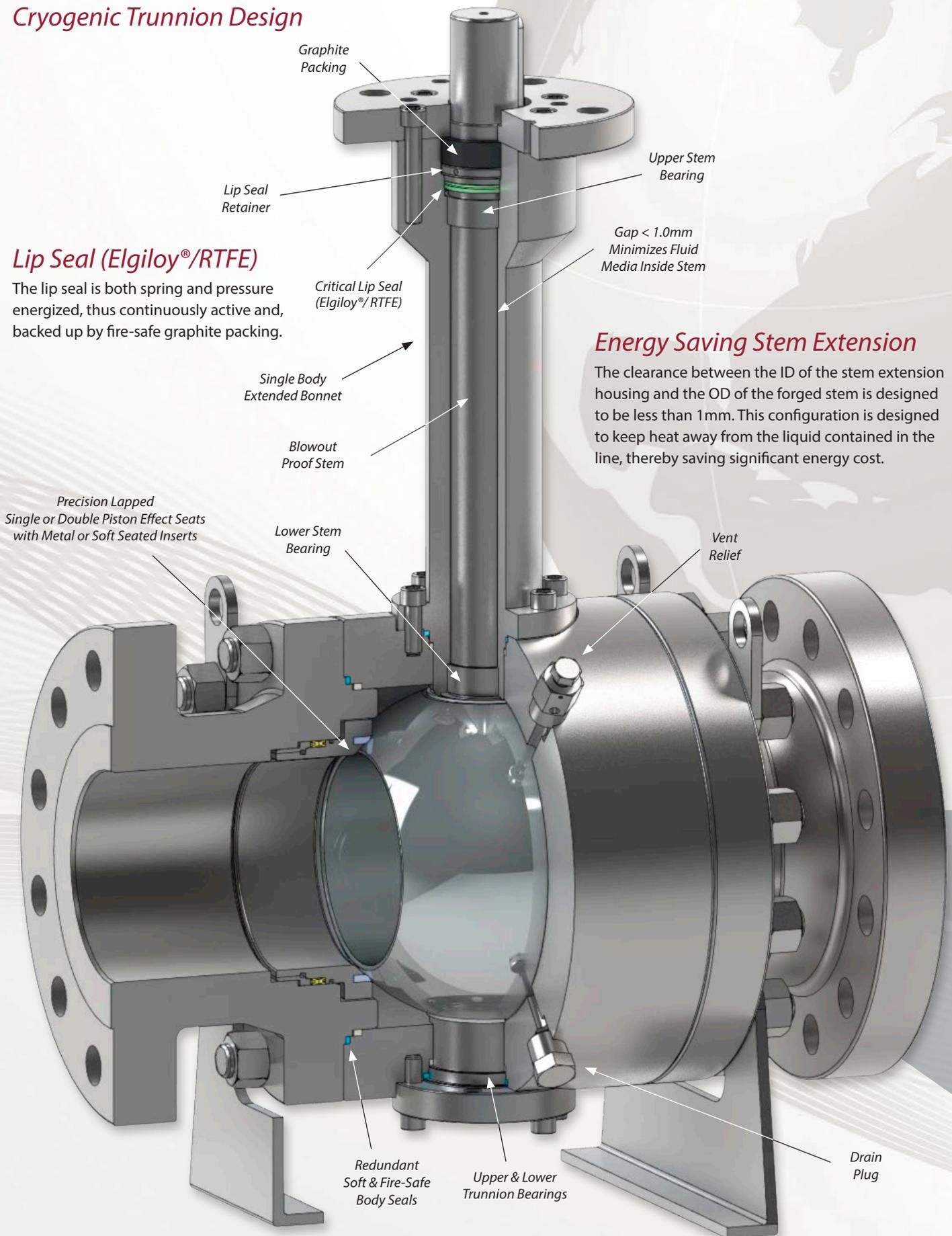
Cryogenic Trunnion Design

Lip Seal (Elgiloy®/RTFE)

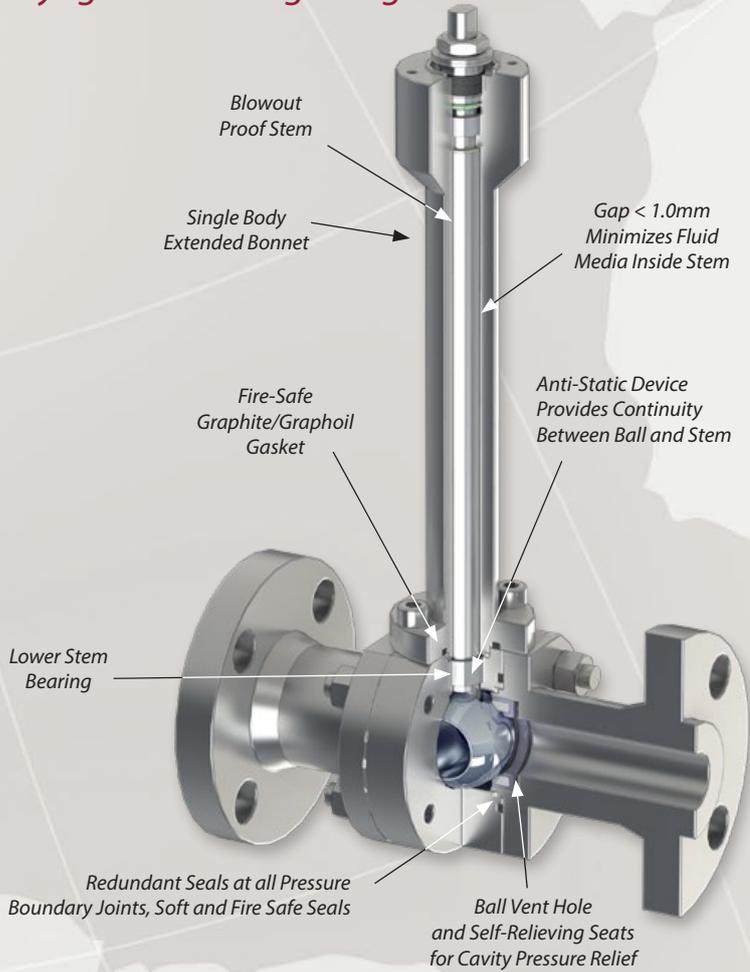
The lip seal is both spring and pressure energized, thus continuously active and, backed up by fire-safe graphite packing.

Energy Saving Stem Extension

The clearance between the ID of the stem extension housing and the OD of the forged stem is designed to be less than 1mm. This configuration is designed to keep heat away from the liquid contained in the line, thereby saving significant energy cost.



Cryogenic Floating Design



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.

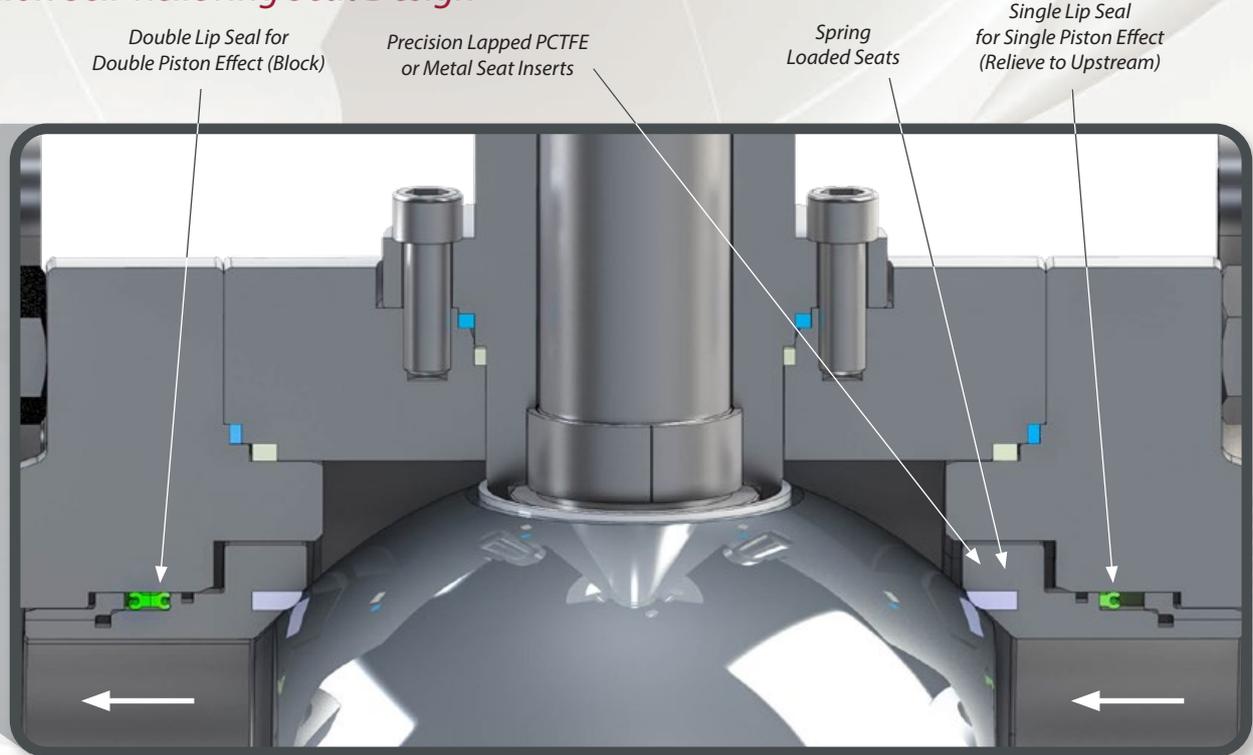


Cryogenic Testing

Sesto Valves designs and manufactures true cryogenic service ball valves in full compliance with British Standard BS 6364 "Specification for Valves for Cryogenic Service" which includes proof of design testing at severe low temperatures of -196°C (-321°F). Detailed quality inspections are performed before and after cryo testing, and valves are re-assembled and tested again at ambient temperatures for verification.



Trunnion Self-Relieving Seat Design





Worldwide Headquarters
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