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.
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
Marking: API 6A, MSS-SP-25, PED
Certifications: API607, SIL, NACE, MR0175, PED, Fugitive Emissions

Features and Benefits
- Class 150 to Class 2500
- Size Range ¼" thru 12" (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

Partial List of Applications
- LNG Storage
- LNG Terminals and Transportation
- Liquefied Industrial Gases
- Cargo and Bunkering Systems
- Regasification
- Aerospace Industry
- Gas Production Facilities
- Food & Beverage
- Refrigeration
- Pharmaceutical

TrueCryo Design vs. Modified Valves for Cryo Service

<table>
<thead>
<tr>
<th>Sesto “True Cryo” Solution</th>
<th>Competitor Modified Cryo Valve</th>
<th>The Sesto Difference</th>
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<tbody>
<tr>
<td>Forged 316 Body</td>
<td>Cast 316 Body</td>
<td>The forged body eliminates the possibility of any leaks due to poor castings.</td>
</tr>
<tr>
<td>1-PC Extended Stem</td>
<td>2-PC Bolted Stem Extension</td>
<td>Our stem is made of one solid piece extended to the valve body.</td>
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<td></td>
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<td>The packing is insulated and there is no leak path in the extension.</td>
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<td>Our proprietary extension seal design helps maintain flow</td>
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<td>temperatures giving the end user energy savings.</td>
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<tr>
<td>PCTFE (KEL-F®) Seats lapped to</td>
<td>No lapping and use of PTFE based</td>
<td>Our seats are lapped to the ball giving us very tight tolerances</td>
</tr>
<tr>
<td>the ball as standard</td>
<td>materials</td>
<td>and shut-off while lowering our torques dramatically.</td>
</tr>
<tr>
<td>Fully Tested Valves to -196°C</td>
<td>Hydrostatic Testing only at ambient</td>
<td>We test our valves per industry standards and perform tests to Cryogenic</td>
</tr>
<tr>
<td>(-320°F)</td>
<td>temperatures</td>
<td>Temperatures -196°C (-320°F) and then test again at ambient temperature with water.</td>
</tr>
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150# to 2500# ¼” thru 12”
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 in width. This critical design feature significantly minimizes flow media in the stem while at the same time providing for the full energization of the critical lip seal. This configuration is designed to keep heat away from the liquid contained in the line, thereby saving significant energy cost.

Live Loaded Lip Seal (Stem Packing)

Sesto cryogenic ball valves utilize the safest and most reliable stem packing technology available; don’t be fooled by adjustable packing systems. Referred to as the Live-Loaded-Lip-Seal, whereby the packing and bearing “system” (see diagram) is live loaded and locked into place by high strength Belleville washers, and then critically backed up by the most technologically advanced high pressure spring energized lip seal (Elgiloy®). The lip seal is the heart of the technology, providing the safest and most reliable packing system on the market today.
Ball/Seat Lapping

All Sesto cryogenic 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.

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.

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.