

BLOCK & BLEED

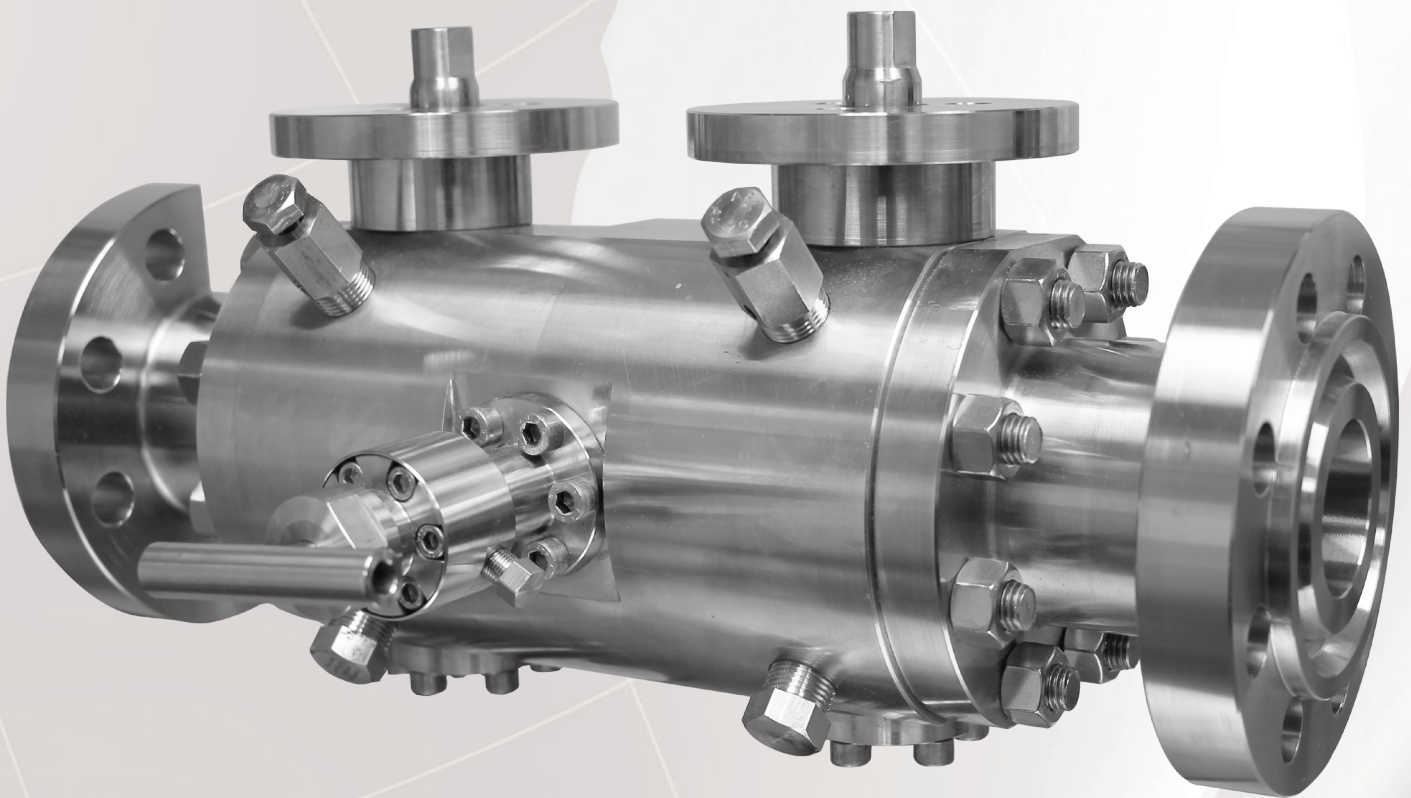
PED



NACE



SIL2
Safety Integrity Level



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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.



SESTO VALVES SESTO SAN GIOVANNI (MI) ITALY			
SIZE	1/2"	CLASS	1500
BODY	1182 F316	TRIM	F316
SN	12-2016	YEAR	12-2016
P/@TMIN	50/-320°F	P/@TMAX	SW
CE	1354	TAG:	A7102



CITY OF SESTO SAN GIOVANNI



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Features and Benefits

- Class 150 to Class 2500
- Size Range ¼" thru 16" (Class Dependent)
- Single and Double Isolation, Multi-Port Designs Available
- Floating and Trunnion, Full and Reduced Bore
- Bolted Body Facilitates Inline Maintenance
- Venting/Relief Designs in Multiple Configurations
- End Connections: RF, RTJ, BW, SW, NPT, BSP, Special
- Fugitive Emissions ISO 15848
- Fire-Safe Tested API 607
- Anti-Static Device and Live-Loaded Packing
- Guided Seat Design on Trunnion Design
- Blowout Proof, Low Torque Guided Stem Design
- Wide Range of Soft and Metal Seated Options
- Manual, Electric, or Pneumatic Operators Available
- Custom Face-to-Face Lengths Available

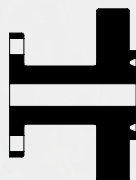
Versatility & Reliability

The Sesto Valves double block and bleed design is engineered for critical service and can be customized for nearly any application. Integrating two ball valves into one body achieves double block and double isolation (API 6D & OSHA compliant) while minimizing leak paths and reducing footprint. Multiple valves can potentially be replaced with a single unit that can include one or more bleed valves configured to specific requirements. Both ball valves can be operated independently with manual or powered operators, and available safety lockouts. Additionally, the design allows for integrity check of seals when fail-proof isolation is critical and leakage could have catastrophic consequences. Sesto Valves DBB solutions are made to simplify piping requirements while increasing safety and reliability.

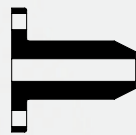
End Connections



Flanged
(RF)



Ring Type
Joint (RTJ)



Butt Weld
(BW)



Threaded
(NPT)



Socket Weld
(SW)



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

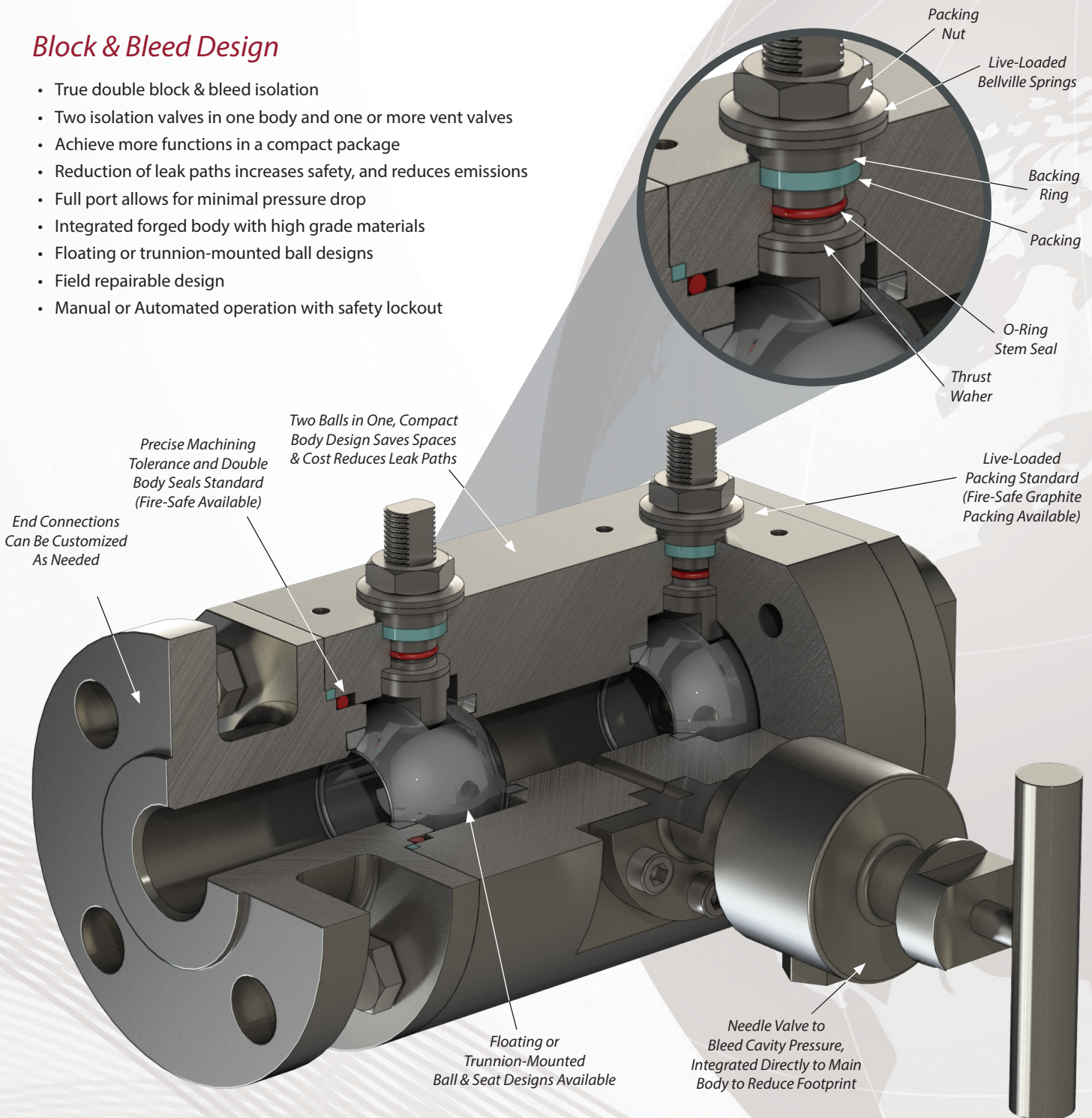
- Oil & Gas Pipelines
- Refineries and Petrochemical Plants
- Power Generation
- Gas and Coal Fired Turbines
- District Heating
- Gas Measurement Systems
- Offshore Platforms
- Emergency Shut Down Valves
- Chemical Injection
- Boiler Steam and Drain Applications

Why Sesto?

Sesto Double Block & Bleed 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.
Application Specific Testing Protocol	We build upon proven API 598, API 6D, and MSS-SP-61 testing standards and customize our testing protocols to simulate actual service pressure conditions, guaranteeing valve performance before field installation.
Customizable Design	The design is highly customizable so end connections, face-to-face lengths, and other features can be modified to suit application requirements.
Reliable, Redundant Critical Shutdown Valves	Where valve reliability is critical to operation the Sesto

Block & Bleed Design

- True double block & bleed isolation
- Two isolation valves in one body and one or more vent valves
- Achieve more functions in a compact package
- Reduction of leak paths increases safety, and reduces emissions
- Full port allows for minimal pressure drop
- Integrated forged body with high grade materials
- Floating or trunnion-mounted ball designs
- Field repairable design
- Manual or Automated operation with safety lockout



Application Specific Testing Protocol

To test the efficacy of the double block and bleed ball valve design and performance, Sesto Valves has developed detailed testing protocols that go above and beyond current industry practice. Standard production tests do not always accurately simulate the conditions for the varying scenarios of real world double block and bleed valve applications. With the API 598, API 6D, and MSS-SP-61 standards as the foundation, Sesto Valves builds upon this to customize multiport testing protocol according to an understanding of specific application requirements. Sesto Valves believes that using proven testing standards and applying them in the context of actual service conditions is the best way to accurately test double block and bleed valves.



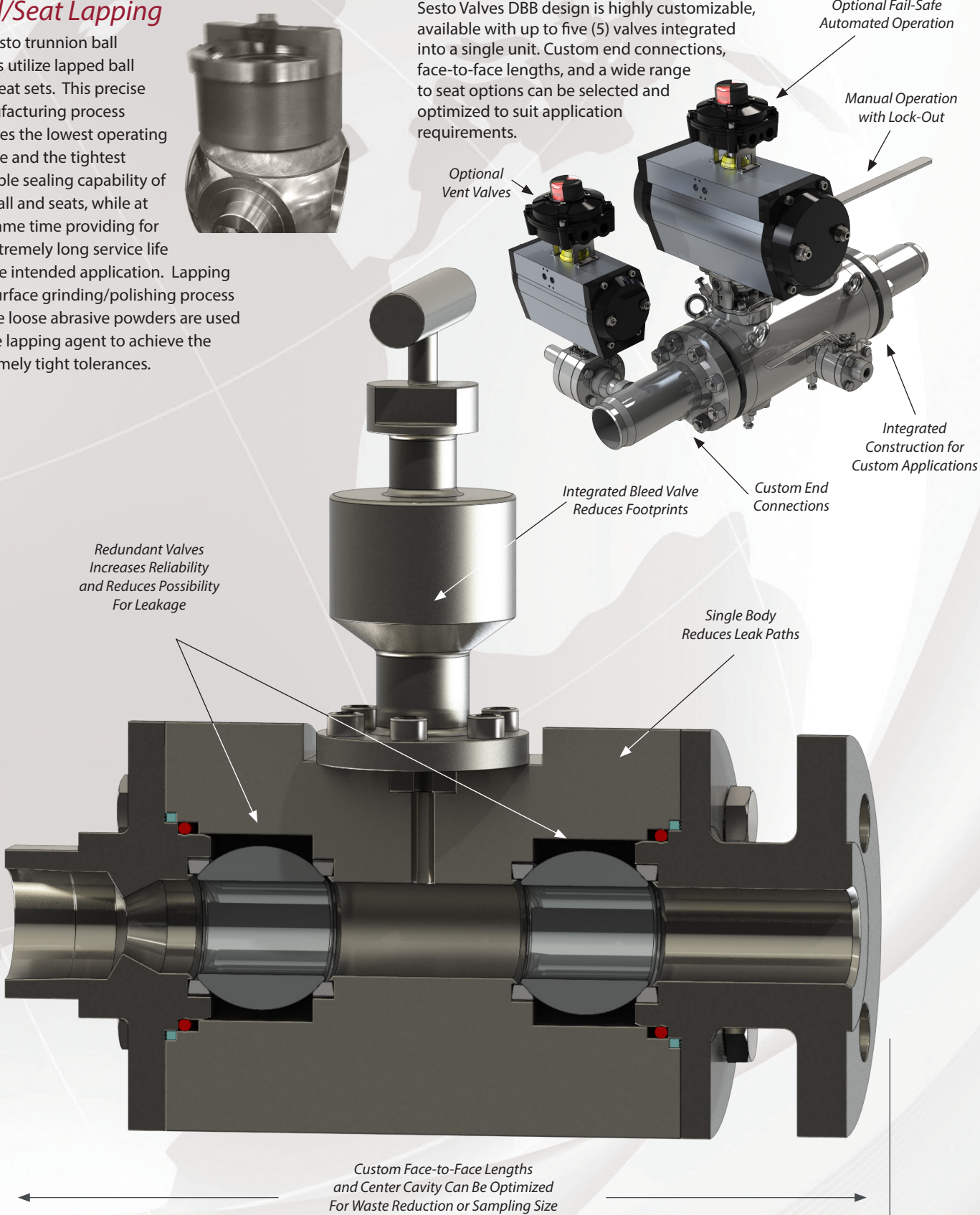
Ball/Seat Lapping

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.



Customizable Design

Sesto Valves DBB design is highly customizable, available with up to five (5) valves integrated into a single unit. Custom end connections, face-to-face lengths, and a wide range to seat options can be selected and optimized to suit application requirements.





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