



## Process-Quality, Three-Piece Ball Valves (R8/B8)

R8/B8

This specification covers the design of three-piece ball valves used in plant-wide applications.

- Valve shall be a three-piece design available in both full and standard port design and in a wide selection of body materials (stainless steel, carbon steel, brass and alloys), and seats to meet a broad range of fluid types, pressures and temperatures.
- End connection shall be NPT, Socket Weld, Butt Weld or flanged. Socket Weld and Butt Weld valves shall have fully encapsulated body seal to facilitate inline welding without the need for disassembly.
- Weld-ends shall be "L" grade 316 stainless steel or carbon steel as required by the application.
- Stem seal shall be live-loaded using high-performance stainless steel disc springs (Belleville Washers). The design shall meet the testing criteria according to ISA-SP-93.
- Actuator attachment shall be by integral mounting surface as part of the valve center section to eliminate the use of pressure-containing body bolts for actuator mounting. Dimension and design as per ISO-5211.
- Manual lever handle shall be stainless steel with vinyl grip.
- Product tagging shall be permanently affixed using spot welding, etching or riveting.
- Ball and stem shall be stainless steel. Hastelloy valves (and other exotic materials) shall have ball and stem as per application.
- Valve shall provide equal-percentage flow characteristics when used in throttling control.
- Valve shall be designed, manufactured and tested to meet applicable industry standards such as: ANSI, ASME, API, BPE, DIN, ISO (as required).
- Process-quality ball valves shall be SVF Series "R8" (standard port), "B8" (full port) or equal.



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SVF Flow Controls, Inc. • 13560 Larwin Circle • Santa Fe Springs, CA 90670 • Tel: 1.800.783.7836 • FAX: 562.802.3114  
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