



Fire-Safe, Three-Piece Ball Valves

F8/FB8

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

- Three-Piece ball valve shall be designed for “Fire Safe” service according to the latest edition of API-607.
- Valve shall be a three-piece design available in both full and reduced port design and in a wide selection of body materials (stainless steel, carbon steel 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.
- 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 “F8” (standard port), “FB8” (full port) or equal.



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