



**Product Specification for Hastelloy C-276 3-Piece Ball Valves (R89/B89)**

**This specification covers the design of three-piece ball valves manufactured from Hastelloy C-276.**

- Three-Piece ball valve shall be designed for services requiring Hastelloy C-276 wetted materials.
- Material specification to be: Hastelloy Alloy C-276 (UNSN10276) ASTM A494-CW12MW
- Valve shall be a three-piece design in reduced or full port design 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.
- 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.
- 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 “R89” (standard port), “B89” (Full Port) or equal.

