



Steam & Thermal Fluids Ball Valves

N8/BN8

This specification covers the design of three-piece steam and thermal fluid valves used in plant-wide applications.

- Valve shall be a three-piece design available in both full and standard port design and in body materials of stainless steel, carbon steel and alloys and with high temperature seats “*SupraLon™*” to meet a broad range of pressures and temperatures in steam and thermal fluid service.
- 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 End valves shall be “L” grade 316 stainless steel, carbon steel or alloys as required.
- 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. The valve shall also be available with a “*Therma-Safe*” extension to reduce the hazard of temperatures during manual operation and to extend the handle above the pipe insulation.
- 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 “N8” (Standard Port), “BN8” (Full Port) orequal.



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