

## Series 120 Eccentric Plug Valves Standard Specification

- A. Valve design shall conform to AWWA C517 – Latest revision.
- B. Valves shall be rated for 175 psi CWP for sizes 3" through 12"; 150 psi CWP for valves 14" through 72".
- C. Bodies, caps and bonnets shall be made from ASTM A126 Class B cast iron per AWWA C517, Section 4.4.1.5. Plugs shall be made from ASTM A126 Class B cast iron (3"-8") or ASTM A536 65-45-12 ductile iron (10"-24") per AWWA C517, Section 4.4.3.1. Body wall thickness shall meet AWWA C517, Section 4.4.1.4.
- D. Plug elastomers shall be bonded in accordance with ASTM D429, Method B per AWWA C517, Section 4.4.5.
- E. End flanges shall be integral with the valve body. Flange drilling and thickness shall conform to ANSI B16.1 for pressure Class 125. Flanges shall be finished in accordance with MSS SP-6.
- F. Face-to-Face dimensions of flanged end valves shall conform to ANSI B16.10 up to and including 12" size.
- G. Mechanical joint ends shall conform to ANSI/AWWA C111/A21.11.
- H. Valves shall conform to MSS SP-108.
- I. Port areas of valves 24" and smaller shall be not less than 80% of pipe area; valves 30" and larger shall be not less than 70% of pipe area.
- J. Upper and lower bearings shall be replaceable, permanently lubricated 316 stainless steel.
- K. Seats shall be raised welded 1/8" thick 95% minimum nickel content.
- L. Stem seals shall be gland type multiple V-ring packing, field adjustable and replaceable without valve disassembly, conforming to AWWA C517, Section 4.4.7.