

AWWA C506 SWING CHECK VALVES

SIZES 2"-36"

SUGGESTED SPECIFICATIONS

GENERAL

Check valves shall be all iron body, bronze mounted full opening swing type. Valve clapper shall swing full open permitting a "full flow" through the valve equal to the nominal pipe diameter and shall comply with the latest revision of AWWA C-508.

REFERENCE STANDARDS

Check valve shall be designed and manufactured in accordance with ANSI/AWWA C508 "Swing Check Valves for Waterworks Service, 2 in. through 24 in." Valves used in potable water service shall be certified to NSF/ANSI 61 "Drinking Water System Components – Health Effects, and certified to be lead free in accordance with NSF/ANSI 372.

RATING

Check valves (2" through 12") shall be rated to 200 psi water working pressure, 400 psi hydrostatic test for structural soundness. Check valves (14" through 36") shall be rated at 150 psi water working pressure, 300 psi hydrostatic test. Pressure testing shall be done in accordance with the latest revision of AWWA C-508.

MATERIALS

All cast iron shall conform to ASTM A126, Class B. All ductile iron valves shall conform to ASTM A536 65-45-12. Casting shall be clean and sound without defects that will impair their service.

- Clappers 2"-4" shall be bronze.
- Clappers 4"-12" shall be faced with bronze or rubber.
- Clappers 14"-36" shall be rubber faced.
- Body Rings / Seats shall be bronze.
- Hinge pins shall be 18-8 stainless steel with bronze side plugs (2" through 12") or packing with a Ductile Iron packing gland with 18-8 fasteners (14" through 36").



AWWA C506 SWING CHECK VALVES

SIZES 2"-36"

DESIGN

Check valves shall be constructed to permit top entry for complete removal of internal components without removing the valve from the line. Plain check valves 2" through 12" shall have O-ring sealed side plugs. Levered check valves in all sizes shall have conventional packing & packing gland design.

When specified, for application conditions of rapid flow reversal or vertical installation, check valve shall be equipped with adjustable outside lever & spring or lever & weight to accomplish faster closing and to minimize slamming effect.

All valves 14" and larger shall have extended hinge pins for future addition of levers and springs if required. Valves shall be suitable for installation in either horizontal or vertical position.

COATING

The exterior and interior of all valves, together with working parts except bronze and machined surfaces, shall be coated in accordance with AWWA standards.

MARKINGS

Markings shall be in accordance with AWWA C-508 and shall include size, working pressure, cast arrow to indicate direction of flow, name of manufacturer, and year of manufacturer.

