

AWWA C509 RESILIENT SEATED GATE VALVES

SUGGESTED SPECIFICATIONS

GENERAL

The valves shall be either non-rising or rising stem, opening by turning left to right, and provided with 2” square operating nut or a handwheel with the “Open” and an arrow cast in the metal to indicate the direction to open.

The body, bonnet and stuffing plate shall be coated with fusion bonded epoxy, both interior and exterior on body and bonnet. Epoxy shall be applied in accordance with AWWA C550 and be NSF61 and NSF372 certified. PIV plates shall be painted black.

Waterway shall be smooth, unobstructed & free of pockets, cavities, & depressions in the seat area. Valves shall be able to accept a full-size tapping cutter.

REFERENCE STANDARDS

Resilient Seated Gate Valves shall conform to the latest version of AWWA Standard C509 covering Resilient Seated Gate Valves for Water Supply Service. Valves used in portable 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.

VALVE BODY

The AWWA C509 valves shall have a cast iron body. The wedge shall be totally encapsulated with rubber. The sealing rubber shall be permanently bonded to the wedge to meet ASTM tests for rubber metal bond ASTM D249. The valve body shall be cast and manufactured to ASTM A-126 Class B Cast Iron. The valve body interior and exterior shall be coated with fusion bonded epoxy suitable for overcoating when required.

VALVE BONNET

The AWWA C509 valves shall have a cast iron bonnet. The valve bonnet shall be cast and manufactured to ASTM A-126 Class B Cast Iron. The valve bonnet interior and exterior shall be coated with fusion bonded epoxy suitable for overcoating when required.

VALVE DISC

Valve disc shall feature a metal insert fully encapsulated with EPDM.

TESTING

All valves should be tested in accordance with ANSI/AWWA C509 requirements. Manufacturers shall provide written confirmation of testing when requested by customer.