

SECTION 2220 - GATE VALVES

PART 1 - GENERAL

1.1 SCOPE OF WORK:

Provide all labor, materials, equipment and services required to furnish and install all gate valves shown on the drawings and/or specified herein.

1.2 SUBMITTALS:

- A. Descriptive literature, catalog cuts, and dimensional prints clearly indicating all dimensions and materials of construction, shall be submitted on all items specified herein to the ENGINEER for review before ordering.
- B. At the time of submission, the CONTRACTOR shall, in writing, call ENGINEER's attention to any deviations that the submittals may have from the requirements of the ENGINEER's Contract drawings and specifications.

PART 2 - PRODUCTS

2.1 GATE VALVES:

- A. All gate valves shall conform with AWWA C515 standard, and shall be of the resilient wedge type, ductile iron body, non-rising stem, and suitable for water operating pressures of at least 250 psi. Valves shall be of standard manufacturer and of the highest quality both as to materials and workmanship. Valves shall be mounted with all stainless steel nuts and bolts.
- B. All gate valves shall be furnished with mechanical joint end connections, unless otherwise shown on the drawings or specified hereinafter.
- C. An epoxy coating conforming to AWWA C550 shall be applied to the interior and exterior ferrous surfaces of the valve except for finished or seating surfaces.
- D. All gate valves shall have the name or monogram of the manufacturer, the year the valve casting was made, the size of the valve, and the working water pressure cast on the body of the valve.
- E. Each gate valve shall be installed in a vertical position with a roadway type valve box. Gate valves set with valve boxes shall be provided with a 2-inch square operating nut and shall be opened by turning to the left (counter clockwise). There shall be a maximum 48" depth of valve operating nut. The CONTRACTOR must use extension stems, if necessary, to raise operator nut within 48" of final grade. Extensions must be securely attached to the operating nut so the shaft will not pull off of the operator.
- F. Gate valves shall be supplied for mains 16" and smaller where shown on the drawings (unless otherwise shown).

PART 3 - BASIS OF PAYMENT

Payment for furnishing and installing gate valves, and boxes will be made at the Contract unit price each, complete in place, which price shall include compensation for furnishing, hauling, excavation, installation, concrete blocking and backfilling.

END OF SECTION