

SECTION 15111 - THREE-WAY PLUG VALVES

City of San Diego, CWP Guidelines

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NTS: Delete the Unit Responsibility language below for manually-operated valves.

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PART 1 -- GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing all three-way plug valves with operators, as indicated.
- [B. The WORK also requires that one manufacturer accept responsibility for furnishing the WORK as indicated but without altering or modifying the CONTRACTOR'S responsibilities under the Contract Documents.
- C. The WORK additionally requires that the one manufacturer who accepts the indicated responsibilities shall manufacture the valve body.
- D. The WORK also includes coordination of design, assembly, testing and installation.]

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 15100 Valves, General

PART 2 -- PRODUCTS

2.1 GENERAL

- A. **Construction:** The three-way plug valves shall be of the eccentric, quarter-turn, resilient plug type, designed for throttling and diversion of clean and dirty liquids, sludge, sewage, abrasive slurries, and gases. It shall be manual gear cylinder or electric motor operated to lift, turn, and reseal the plug during each operation. The valve body shall have ANSI Class 150 flanged ends and a body rating of 125 psi. The plugs shall be of the single or double style, as indicated.
- B. **Materials:** Unless otherwise indicated, the following materials shall be furnished:
 - 1. Valve body - Cast iron, ASTM A 126, Class B, epoxy-lined in accordance with Section 09800

2. Plug - Cast iron, ASTM A 126, Class B, with resilient lining best suited for the application
3. Packing - Non-asbestos square braided fiberglass or equal
4. Bearing - Type 316 stainless steel

C. **Operator:** The valve operators shall be of the manual worm gear type with handwheel or chain and position indicator, or they shall be electric motor operated in accordance with Section 15101, as indicated. Where cylinder operators are indicated, they shall be of the double-acting type for compressed air or hydraulic power.

2.2 MANUFACTURERS

A. Three-way plug valves shall be manufactured by one of the following (or equal):

1. De Zurik Corporation
2. Keystone, Drum-Owens (Homestead)

PART 3 -- EXECUTION

3.1 GENERAL

A. Three-way plug valves shall be installed in accordance with the manufacturer's written instructions.

** END OF SECTION **