



Invitation For Bid TAC 880H Water & Sewer Fittings Water & Sewer Issued: November 21, 2019

City of Tulsa, Oklahoma
Onunoma
Page 22 of 62

融

AII MATERIALS CONTAINING BRASS: Federal Reduction of Lead in Drinking Water Act, Federal Regulations effective January 4, 2014.

Disclaimer: All products received must meet Federal guidelines even if not stated in specifications.

Section 4:

WValveBALL 03172005

(Use spec with: Section 4, Item 37-41)

Ball Valve with Manual Operator Specifications:

Ball valves shall conform to AWWA Standard for Ball Valves, ANSI/AWWA C507. They shall be Double-seated with natural or synthetic rubber located in the valve body. Ball seating surfaces shall be stainless steel; Designed for 150 psi working pressure; "O" ring rotor bearing seals;

Constructed of high-tensile strength cast iron; Counter-clockwise opening; Equipped with totally enclosed manual operators, and torque limiting control device. Ball shall have flanges which will be ANSI B16.1, Class 125, cast iron flanges.

Only the following makes will be permitted: Pratt

<u>Manual Operators</u> shall be permanently lubricated, counter-clockwise opening, and designed for buried or submerged service. Manual operators shall be equipped with a 2st square AWWA operating nut with removable hand wheel complete with spinner and an open-closed indicator, suitable for one-man operation at 150 psi unbalanced across the valve. The manual operator shall be either worm gear or traveling out typeand shall conform to AWWA C507 for Ball Valves.

Section 4:

WValveBfly 120101

(Use spec with Section 4, Item 42-45)

Butterfly Valve Specifications:

Butterfly valves shall be of the tight-closing, rubber-seat type, shall have a rated pressure of 150 psr and shall be bubbletight at this pressure with flow in either direction. Valve opening shall be counter-clockwise. The valve shall conform to and be tested in accordance with the AWWA Standard for Rubber-Seated Butterfly Valves, ANSI/AWWA C504, Class 150B. The valve body shall be of the short-body flange type, constructed of cast iron conforming to either ATSM A126, Class B, or ANSI/ASTM A436, Type 1, or cast-iron conforming to ANSI/ASTM A48 Class 40, or ductile iron, ANSI/ASTM A536 Grade CF8, or monel. Valve seats shall be body mounted and shall be of natural or synthetic rubber compound with mating seat surfaces of 18-8, Type 304 or 316 stainless steel, or alloy cast iron conforming to ANSI/ASTM A436, Type 1 bronze Grade A, D or E. Valve bearings shall be corrosion resistant and self-lubricating.

Interior surfaces of the valve, except seating surfaces, shall be epoxy coated in accordance with AWWA Standard for Protective Interior Coatings for Valves and Hydrants, AWWA C550. Exterior surface of the valve shall be painted with (2) coats of asphalt variable conforming to Federal Specifications TT-V-54C.

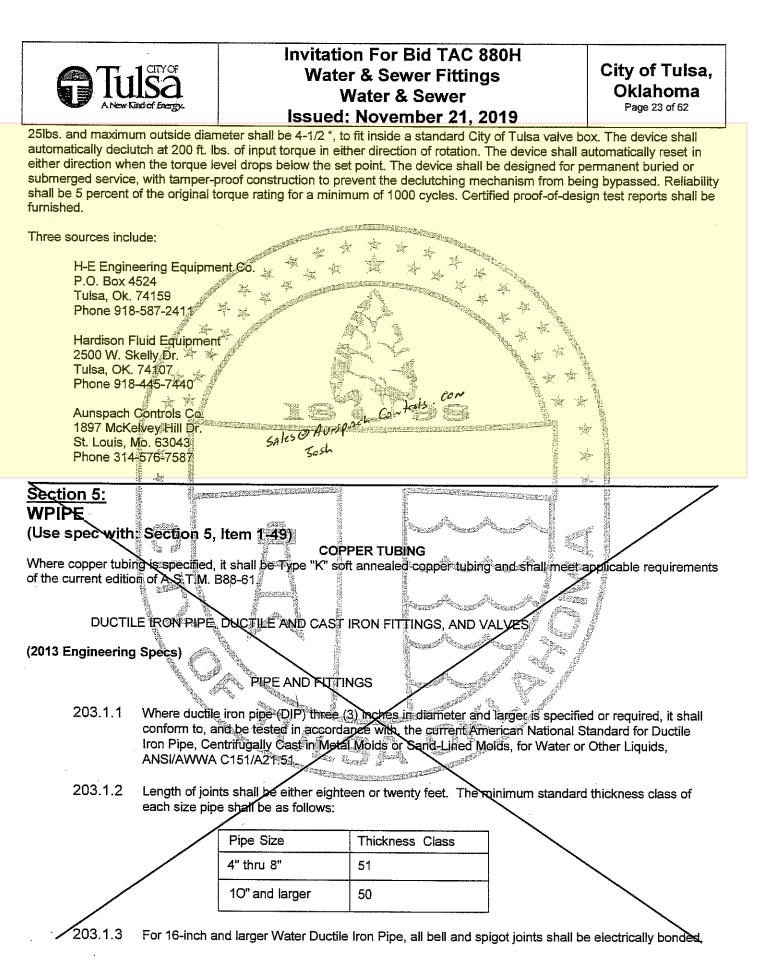
Manual valve operators shall be totally enclosed, permanently lubricated, counter-clockwise opening, and designed for buried or submerged service, equipped with a 2° square operating nut with a removable hand wheel complete with spinner and an open-closed indicator, suitable for one man operation at 150 psi unbalanced across the valve.

Only the following makes will be permitted: Pratt & Mueller

<u>Section 4:</u> WValveTLD 120101 (Use spec with: Section 4, Item 46)

Torque Limiting Device Specifications:

Torque limiting device shall be manufactured of hardened steel and cast iron, capable of being mounted directly on a 2" square AWWA operating nut by means of 2 set screws 90 degrees apart. Total weight of the device shall not exceed



2-7-17