

SECTION 1446

WATER METERS

1446.0100 GENERAL

1446.0101 Description of Work. The work under this section shall consist of furnishing water meters and incidental fittings, all in accordance with the details shown on the plans and requirements of these specifications.

1446.0102 Related Specifications.

Section 0106 - Control of Material (Standard Contract Conditions)

Section 0209 - Installation of Waterlines (Tucson Water Specifications)

1446.0104 Delivery, Storage and Handling. Water meters shall be delivered to Tucson Water's stores, 1445 S. 11th. Water meters shall be stored and handled in accordance with the manufacturer's instructions except as may be modified by the plans, special specifications, or as directed by the Engineer. The contractor shall notify Tucson Water stores 24 hours prior delivering the water meters.

1446.0200 PRODUCTS

1446.0201 Materials.

(A) **Standard.** Water meters and the materials used in their manufacture shall comply with the most recent revision of the standards in Appendix B.

(B) **Component Parts.** Meters covered by this specification are sized 5/8 inch x 3/4 inch through 2 inch unless otherwise provided in the special specifications. Meters larger than 2 inch shall be in accordance with AWWA C702. The meter's component parts shall conform to AWWA C700 and AWWA C702. All meter components shall be tested and certified by an approved testing laboratory located in the United States. All parts shall be readily available.

The meter manufacturer's name and serial number shall be stamped on the outercase in a boss provided on each meter. The direction of flow shall be cast on the outer case.

Main case connections for 1-1/2 inch and 2 inch meters shall be flanged on both ends. Companion flanges will not be provided.

Casings for meters may be of a split case design.

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(C) **Performance Test.** The performance of the water meter shall comply with the maximum friction loss per cubic foot of water measured, as follows:

<u>Size</u>	<u>Friction Loss</u>
5/8" x 3/4"	11 p.s.i.
1"	11 p.s.i.
1 1/2"	15 p.s.i.
2"	15 p.s.i.

1446.0300 EXECUTION

1446.0301 Installation.

(A) **General.** Meters shall be installed in accordance with the manufacturer's recommendations and AWWA C700 and AWWA C702.

(B) **Meters.** The meters shall be guaranteed for a period of fifteen years, from the date of delivery, against failure of any and all operating parts or the inability to perform because of faulty construction or materials.