

**SAN ANTONIO WATER SYSTEM  
SAN ANTONIO, TEXAS**

**SPECIFICATIONS FOR WATER METER STRAINERS**  
**REVISED July 2013**

**1. SCOPE**

This specification covers plate type strainers for use with water meters 2 inches and larger to block or strain objects greater than 3/16" diameter. The strainer is to be mounted to the inlet side of the meter to prevent objects such as stones and pebbles from entering the meter and causing physical damage.

**2. GENERAL REQUIREMENTS**

- a. The strainer shall comply with the lead-free provisions of the Safe Drinking Water Act. Strainer shall be certified to NSF/ANSI Standards 61/ 372 and carry the NSF-61 on the structure. Manufacturers shall have an I.S.O. 9001 registered quality systems.
- b. The strainer should be designed for minimum weight and pressure loss.
- c. The screen shall be made of perforated stainless steel plate and shaped to give maximum rigidity against the flow stream forces.
- d. The effective straining area shall be at least double that of the meter main case inlets.
- e. An access cover plate shall be provided.
- f. The two (2) inch strainer shall be furnished with dual elliptical flanged connections, which are faced and drilled. Strainers three (3) inches and larger shall be furnished with dual round-type flanged connections which are faced and drilled. Bolt circle, length and diameters shall be compatible with meter connection dimensions as contained in ANSI/AWWA C701-02 or latest revision thereof.
- g. The housing and cover for 2 inch thru 6 inch strainers shall be cast lead-free bronze and for 8 inch and 10 inch, cast iron. Raised letters indicating the flow direction will be clearly visible.

- h. The screen shall be non-corrosive stainless steel.
- i. Casing bolts, nuts, screws and washers shall be made of a copper alloy containing not less than 57 percent copper or stainless steel.
- j. Head loss at maximum meter flows as contained in AWWA C701-02 shall not exceed 3.0 psi.
- k. Head gaskets shall be of a suitable synthetic polymer.
- l. Strainer laying lengths will conform to the following table:

<u>Strainer Size</u>	<u>Strainer Laying Length</u>
2 inch	7 inches
3 inch	7 inches
4 inch	9 inches
6 inch	9 inches
8 inch	14 inches
10 inch	16 inches

- 3. In order to satisfy specified laying length strainer may be furnished with appropriate spacer, which is securely mounted and will not conflict with attachment to meter or associated service line piping.

**Previous revised specifications**

January 1998  
 November 2006  
 December 2011