

SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS

SPECIFICATIONS FOR WATER METER STRAINERS REVISED JUNE 2004

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 should be designed for minimum weight and pressure loss.
- b. The screen shall be made of perforated stainless steel plate and shaped to give maximum rigidity against the flow stream forces.
- c. The effective straining area shall be at least double that of the meter main case inlets.
- d. An access cover plate shall be provided.
- e. 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. Sufficient flange bolts; nuts and gaskets shall be furnished to accommodate one flange only.
- f. The housing and cover for 2 inch thru 6 inch strainers shall be cast bronze and for 8 inch and 10 inch, cast iron. Raised letters indicating the flow direction will be clearly visible.
- g. The screen shall be stainless steel.
- h. Casing bolts, nuts, screws and washers shall be made of a copper alloy containing not less than 57 percent copper or stainless steel.

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- i. Head loss at maximum meter flows as contained in AWWA C701-02 shall not exceed 3.0 psi.
- j. Head gaskets shall be of a suitable synthetic polymer.
- k. Strainer laying lengths will conform to the following table:

<u>Strainer Size</u>	<u>Strainer Laying Length</u>
2 inch	7 inches
3 inch	6 inches
4 inch	7.5 inches
6 inch	9 inches
8 inch	10 inches
10 inch	15 inches

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