

Materials Specification – 27 for FLANGED IN-LINE BASKET STRAINERS

1. GENERAL

Flanged in-line basket strainers shall be fabricated from CI in accordance with ASTM A 48 Class 35B with the following additional requirements or exceptions.

Strainers shall be approved by the NFPA and/or Underwriters Laboratories and used for turbine meters where required by these Standards. Unless approved in advance by the Meter Inspector, the strainer shall be the same brand as the meter.

2. FLANGES

Flanges shall be sized and drilled in accordance with ANSI B16.1, Class 125. Flanges shall be machined to a flat surface with a serrated finish in accordance with AWWA C207.

3. COVER PLATES

Strainers shall be provided with a removable, bolted top cover plate for the inspection and removal of the basket and debris. A 3/4-inch drain valve and a 3/4-inch vent valve shall be provided on the bottom and the top, respectively.

4. BASKETS

Strainer baskets shall be fabricated from stainless steel alloy UNS S31600 or high impact plastic and have a net open area of at least four times the nominal size of the pipe in which the strainer is installed. The basket shall be easily removable from the strainer for periodic inspection and maintenance.

5. WORKING PRESSURE

Strainers shall be designed for a working pressure of 150 psi. Maximum head loss shall be 4 psi at maximum rated flow capacity.

6. INSTALLATION

Spacing between the strainer and the meter is critical to the accurate measurement of water for billing purposes. Strainers shall be installed in accordance with the meter manufacturer's installation guidelines. Only strainers that are designated for bolt-on design shall be directly connected to the water meter. Recommended or required lengths of straight pipe before and after the strainer shall be observed.

7. CERTIFICATION

The manufacturer shall furnish a sworn statement that the inspection and all specified tests have been completed and that results comply with the requirements of these Standards. A copy of the Certification shall be provided to Denver Water.

8. ACCEPTABLE MANUFACTURERS

Badger Meter, Inc.
Neptune Technology Group
Sensus Metering Systems

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