

## **Materials Specification – 27 for IN-LINE STRAINERS**

**1. GENERAL:**

All flanged in-line basket strainers shall be fabricated from cast iron in accordance with ASTM A 48. The strainers shall be approved by the NFPA and/or Underwriters Laboratories and shall be used for turbine meters where required by [6.18](#). Unless otherwise approved in advance by the Meter Inspector, the strainer shall be of the same brand as the meter.

**2. FLANGES:**

The strainer flanges shall be fabricated in accordance with ASTM A 126. They shall be faced and drilled in accordance with ANSI B16.1, Class 125.

**3. COVER PLATES:**

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

**4. BASKETS:**

Strainer baskets shall be fabricated from UNS S31600 or high impact plastic, and shall have a net open area of at least 4 times the nominal size of the pipe in which the strainer is installed. The basket shall be easily removed from the strainer for periodic inspection and maintenance.

**5. OPERATING PRESSURE:**

The strainers shall be noted for a minimum operating pressure of 150 psig. Maximum head loss shall be 4 psi at maximum rated flow capacity.

**6. INSTALLATION:**

The spacing between the strainer and meter is critical to accurate measurement of the water for billing. Strainers shall be installed strictly in conformance with the installation guidelines of the meter manufacturer. Only strainers designated for "bolt-on" design shall be directly connected to the water meter. All recommended or required lengths of straight pipe before and after the strainer shall be observed.