

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

**1. GENERAL:**

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 these Standards. Unless 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 A126 and 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 the inspection and removal of the basket and debris. A ¾-inch drain valve and a ¾-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 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. OPERATING PRESSURE:**

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

**6. INSTALLATION:**

Spacing between the strainer and meter is critical to the accurate measurement of water for billing purposes. Strainers shall be installed in strict conformance with the installation guidelines of the meter manufacturer. 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.