

SECTION 15031 - STRAINERS

City of San Diego, CWP Guidelines

PART 1 - GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing strainers as indicated, complete and operable.

1.2 RELATED SECTIONS

- A. The WORK of the following Section applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.

- 1. Section 15000 Piping Components

1.3 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:

- 1. Manufacturer's product data including catalog cuts.
- 2. Shop drawings showing details and dimensions.

PART 2 - PRODUCTS

2.1 GENERAL

- A. **General:** Only products certified as complying with the indicated requirements shall be provided. Strainers shall be of the Y-pattern type with flush connections, have cast iron or bronze bodies, stainless steel or monel screens, and screwed ends for sizes 3-inch and smaller, and flanged ends for sizes greater than 3-inch. They shall be designed for not less than 250 psi working pressure in sizes 3-inch and smaller, and 125 psi working pressure in sizes over 3-inch.

- B. **Equipment Requirements:** Unless otherwise indicated, the strainers shall be provided with the components as follows:

- 1. **Air and Gas Strainers:** Air and gas line strainers shall have a cast iron body, with 40 mesh Monel screens packed with Everdur wool. Bronze bodies shall be provided with copper piping. Air line strainers shall be fitted with a brass blowoff cock.
- 2. **Steam and Water Strainers:** Steam strainers shall have carbon steel body; water strainers shall have cast iron body. Bronze bodies shall be provided with copper piping. Strainers shall have 304 stainless steel screens and tapped and plugged blowoff connections. Screen perforations shall be 0.020-inch for steam service and 0.045-inch for water service.

3. Fuel Oil Strainers: Fuel oil strainers shall be of the basket type and shall have cast iron body with 304 stainless steel screens. Screen perforation shall be 3/64-inch.

2.2 MANUFACTURERS

- A. **Manufacturers:** Products shall be manufactured by one of the following (or equal):

1. Armstrong Figs. 6 and 7
2. Crane No. 988 1/2
3. Mueller

PART 3 - EXECUTION

3.1 INSTALLATION

- A. **General:** Strainers shall be installed in accordance with the manufacturer's written installation instructions.
- B. Unless otherwise indicated, strainers shall be provided ahead of any control valves, regulators, steam and condensate traps, and where indicated, and they shall be preceded by shut-off valves.

** END OF SECTION **