

SECTION 230553 - IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT

PART 1 GENERAL

1.1 WORK INCLUDED

- A. Identification of mechanical products installed under Division 23.

1.2 REFERENCES

- A. ANSI A13.1 - Scheme for the Identification of Piping Systems

1.3 SUBMITTALS

- A. Submit product data under provisions of Section 013300.
- B. Submit list of working, symbols, letter size, and color coding for mechanical identification.
- C. Submit valve chart and schedule, including valve tag number, location, function, and valve manufacturer's name and model number.
- D. Submit manufacturer's installation instructions under provisions of Section 013300.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Seton.
- B. A. B. C.
- C. Pittsburgh Paints.
- D. Marking Services, Inc.
- E. Substitutions: Approved equal under provisions of Section 012500.

2.2 MATERIALS

- A. Color: Unless specified otherwise, conform with ANSI/ASME A13.1.
- B. Plastic Nameplates: Laminated three-layer plastic with engraved black letters on light contrasting background color.
- C. Plastic Tags: Laminated three-layer plastic with engraved black letters on light contrasting background color. Tag size minimum 1-1/2 inch diameter.
- D. Metal Tags: Brass or Aluminum with stamped letters; tag size minimum 1-1/2 inch diameter with smooth edges.
- E. Stencils: With clean cut symbols and letters of following size:

SERVICE

SIZE OF LETTERS

Ductwork and Equipment

2-1/2"

- F. Plastic Pipe Markers: Factory fabricated, flexible, semi-rigid plastic, preformed to fit around pipe or pipe covering; minimum information indicating flow direction arrow and fluid being conveyed. Seton "Setmark" or equal.
- G. Plastic Tape Pipe Markers: Flexible, vinyl form tape with pressure sensitive adhesive backing and printed markings.
- H. Duct System Markers: Use Seton Style 85266 markers for dampers and all other components. Minimum 7-1/2"W X 4-1/2"H, Custom Self Adhesive Vinyl, indicate air flow type, direction, and air handling unit or fan number.

PART 3 EXECUTION

3.1 PREPARATION

- A. Degrease and clean surfaces to receive adhesive for identification materials.

3.2 INSTALLATION

- A. Plastic Nameplates: Install with corrosive-resistant mechanical fasteners, or adhesive.
- B. Plastic or Metal Tags: Install with corrosive-resistant chain.
- C. Plastic Pipe Markers: Install in accordance with manufacturer's instructions.
- D. Plastic Tape Pipe Markers: Install complete around pipe in accordance with manufacturer's instruction.

3.3 SCHEDULE

- A. Equipment: Identify equipment, pumps, and heat transfer equipment with plastic nameplates. Small devices, such as in-line pumps, may be identified with tags.
- B. Controls: Identify control panels and major control components outside panels with plastic nameplates.
- C. Valves: Identify valves in main and branch piping with tags indicating service and area or equipment served.
- D. Piping: Identify piping, concealed or exposed, with plastic pipe markers 2-1/2" and smaller and plastic tape pipe markers for 3" and larger. Identify service, flow direction, and pressure. Install in clear view and align with axis of piping. Locate identification not to exceed 20 feet on straight runs including risers and drops, adjacent to each valve and "T", at each side of penetration of structure of enclosure, and at each obstruction.
- E. Identify equipment that is concealed above ceiling by attaching identification markers to the ceiling tile metal suspension system directly below piece of equipment.
- F. Ductwork: Identify ductwork with stenciled painting or duct system markers. Identify as to air

flow type, direction, and air handling unit or fan number. Locate identification at air handling unit, at each side of penetration of structure or enclosure, and at each obstruction. Provide a minimum of one marker for every 25 feet in straight duct runs.

- G. Provide valve chart and schedule in aluminum frame with clear plastic shield. Install at location as directed.
- H. Duct System Markers: Use Seton Style 85266 markers for dampers and all other components. Minimum 7-1/2"W X 4-1/2"H, Custom Self Adhesive Vinyl.

END OF SECTION 230553