

SECTION 23 0553
IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Nameplates.
- B. Pipe markers.
- C. Valve Tags.

1.02 REFERENCE STANDARDS

- A. ASME A13.1 - Scheme for the Identification of Piping Systems; 2007.

1.03 SUBMITTALS

- A. Refer to Section 23 0510- General HVAC Requirements, for submittal procedures.
- B. Product Data: Provide manufacturers catalog literature for each product required.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Brimar.
- B. Kolbi.
- C. Seton.

2.02 NAMEPLATES

- A. Description: Laminated three-layer plastic with engraved black letters on light contrasting background color.
- B. Size: 1/2 inch high letters unless otherwise noted.
- C. Size when located on ceiling grid: 3/8 inch high letters unless otherwise noted. Background color to match ceiling grid.

2.03 PIPE MARKERS

- A. Manufacturers: Brimar, Kolbi Industries Style A thru E (5 inch and smaller) else Style F thru H, Marking Services Inc., Seton Identification Products - Setmark.
- B. Color: Conform to ASME A13.1.
- C. Pipe Markers for Indoor Use: Media indicator with direction-of-flow arrows on calendared vinyl sheet; snap-around type for pipe sizes to 5-7/8 inches diameter, strap around type with nylon ties for pipe sizes 6 inches diameter and larger.
- D. Pipe Markers for Outdoor Use: Media indicator and detachable direction-of-flow arrows on weather-resistant pressure-sensitive vinyl sheet; service temperature -40 to 175 degrees F.

2.04 VALVE TAGS

- A. Brass; Media and identification number imprinted on tag.
- B. Securing Devices: Number 6 brass bead chain; provide one securing device for each tag in accepted schedule.
- C. Valve Chart Frame: Aluminum frame, plastic window; sized to accommodate included chart, minimum 8-1/2 by 11 inches.

PART 3 EXECUTION

3.01 PREPARATION

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

3.02 INSTALLATION

- A. Install plastic pipe markers in accordance with manufacturer's instructions.

- B. Identify air handling units, pumps, heat transfer equipment, tanks air terminal units, and water treatment devices with plastic nameplates.
- C. Where equipment is located above ceilings; Apply nameplate to ceiling grid for equipment located above accessible ceilings or to access panel for non-accessible ceilings.
- D. Where manual air vents are located above ceilings; Apply nameplate to ceiling grid for equipment located above accessible ceilings or to access panel for non-accessible ceilings.
- E. Identify control panels and major control components outside panels with plastic nameplates.
- F. Tag automatic controls, instruments, and relays. Key to control schematic.
- G. Install Pipe Markers on all piping systems at the following Locations:
 - 1. Mechanical Equipment Rooms:
 - a. Within 18 inches of each valve.
 - b. Within 36 inches of each 90° elbow, tee, connection to equipment or vessel and point where pipe exits room.
 - c. At not over 20 feet intervals along all exposed piping.
 - 2. Above Suspended Ceilings:
 - a. Within 18 inches of each valve or valve assembly.
 - b. At tees, identify both main and branch within 36 inches of tee.
 - c. Within 36 inches of each 90° elbow.
 - d. At not over 30 feet intervals along all concealed piping.
 - 3. Concealed Piping in Chases or Shafts: Identify each pipe visible through access door panel.
 - 4. Piping Exposed in Rooms Other Than Mechanical Equipment Areas:
 - a. Omit identification on piping, 1 inch exterior diameter or smaller(insulated or uninsulated) or exposed at connections to equipment or plumbing fixtures.
 - b. With the above exception, identify at not less than one point each piping run visible in each room, with identification on not over 20 feet intervals.
- H. Valve Tags:
 - 1. Valve Chart: List all tagged valves indicating system, valve identification number, location and purpose or special information. Mount to wall in mechanical room.

END OF SECTION