

SECTION 23 2114
HYDRONIC SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Air vents.
- B. Strainers.

1.02 RELATED REQUIREMENTS

- A. Section 23 2113 - HYDRONIC PIPING.

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS

- A. Refer to Section 23 0510 - General HVAC Requirements for submittal procedures.
- B. Product Data: Provide product data for manufactured products and assemblies required for this project. Include component sizes, rough-in requirements, service sizes, and finishes. Include product description, model and dimensions.
- C. Manufacturer's Installation Instructions: Indicate hanging and support methods, joining procedures.
- D. Maintenance Data: Include installation instructions, assembly views, lubrication instructions, and replacement parts list.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Accept specialties on site in shipping containers with labeling in place. Inspect for damage.
- B. Provide temporary end caps and closures on specialties. Maintain in place until installation.
- C. Protect from entry of foreign materials by temporary covers, completing sections of the work, and isolating parts of completed system.

PART 2 PRODUCTS

2.01 AIR VENTS

- A. Manual Type:
 - 1. Pipe Sizes up to 2 inches: Short vertical sections of pipe to form air chamber, same size as pipe, with 1/2 inch brass ball or gate valve at top of chamber.
 - 2. Pipe Sizes 2-1/2 inches and over. Short vertical sections of 2-1/2 inch diameter pipe to form air chamber, with 1/2 inch brass ball or gate valve at top of chamber.
 - 3. Equipment Rooms: Terminate discharge along wall with valve and hose end connection in an accessible location. Refer to detail on drawings.
- B. Automatic Float Type:
 - 1. Manufacturers: Amtrol 706, Armstrong 75, Hoffman 79, Wheatley 79, Watts 4VA.
 - 2. Brass or semi-steel body, copper, polypropylene, or solid non-metallic float, stainless steel valve and valve seat; suitable for system operating temperature and pressure; with isolating valve.

2.02 STRAINERS

- A. Size 2 inch and Under:
 - 1. Manufacturers: Armstrong, Conbraco, Crane, Flow Design YC/YW, Hoffman, Keckley, Leslie, Metraflex, Mueller, McAlear, Sarco, Watts, Wheatley.
 - 2. Copper Piping System: Screwed, cast or forged brass body for 175 psi working pressure, Y pattern with 1/32 inch stainless steel perforated screen and removable cap with blowdown tapping. Plug blowdown tapping, unless noted otherwise.
 - 3. Steel Piping System: Screwed, cast iron or forged steel body for 175 psi working pressure, Y pattern with 1/32 inch stainless steel perforated screen and removable cap with blowdown tapping. Plug blowdown tapping, unless noted otherwise.

4. Strainers located above ceilings or 8 feet above floor or higher shall be provided with a ball type blow-down valve with hose-end connection with gasketed cap with chain.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install specialties in accordance with manufacturer's instructions.
- B. Install specialties in a readily accessible location.
- C. Provide manual air vents at system high points and as indicated.

END OF SECTION