



SECTION 23 21 16

Hydronic Piping Specialties

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Unit shall be a Bell & Gossett[®] Sediment Removal Separator (SRS), as manufactured by Xylem.

1.02 RELATED SECTIONS

- A. Section 23 01 70 – Operation & Maintenance of Central HVAC Equipment
- B. Section 23 20 00 – HVAC Piping and Pumps
- C. Section 23 21 13 – Hydronic Piping

1.03 REFERENCES

- A. ASME – American Society of Mechanical Engineers.
- B. ANSI – American National Standards Institute.
- C. ISO – International Standards Organization.

1.04 SUBMITTALS

- A. Submit data cover sheet.
- B. Dimensional print(s).
- C. Sales bulletin.
- D. Installation, operation & maintenance manual.

1.05 QUALITY ASSURANCE

- A. The product manufacturer shall be fully certified by the International Standards Organization per ISO 9001.
- B. The manufacturer shall carry a minimum product liability insurance of \$5,000,000.00 per occurrence.

1.06 MAINTENANCE MATERIAL SUBMITTALS

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Subject to compliance with these specifications, the following manufacturers shall be acceptable:
 - 1. Air & Sediment Separator
 - a. Xylem Inc. Bell & Gossett[®] Sediment Removal Separator Model SRS-_____.
 - b. Pre-approved equal.

2.02 COMPONENTS

- A. Air & Sediment Separator
 - 1. The Air & Sediment Separator shall be designed, constructed, and stamped in accordance with Section VIII, Division I of the ASME Boiler and Pressure Vessel Code, and registered with the National Board of Boiler and Pressure Vessel Inspectors.
 - 2. The Air & Sediment Separator shall be rated for _____ psi (_____ kPa) maximum working pressure.
 - 3. The Air & Sediment Separator shall have a maximum temperature rating of 350°F (171°C).
 - 4. The Air & Sediment Separator body shall be made of carbon steel.
 - 5. The Air & Sediment Separator body shall be three times the nominal inlet/outlet pipe diameter.
 - 6. The Air & Sediment Separator shall include an air collection tube to filter and direct collected air to the top of the unit so it can be removed. The air collection tube shall have 3/16" perforations and 51% open area. The air collection tube shall be made of 304 stainless steel.

Sediment Removal Separator (SRS) Specifications

7. The Air & Sediment Separator shall include a dome style collection cap on the bottom of the unit to allow removed sediment to collect outside of the flow of the system fluid.
8. The Air & Sediment Separator shall include an internal deflector screen on the inside of the tank body to direct sediment down to the collection cap. The deflector screen shall be made of carbon steel.
9. The Air & Sediment Separator shall include threaded blow down connection to allow for sediment to be regularly cleaned out of the unit.
10. The Air & Sediment Separator shall include a threaded air removal connection on top of the unit so an air vent or expansion/compression tank can be connected, allowing collected air to be removed from the unit.
11. The Air & Sediment Separator shall be available with either flanged end connections or grooved end connections.
12. Flange end connections should be designed according to ANSI Standards.

2.03 ACCESSORIES

- A. Air & Sediment Separator Accessories
 1. Blowdown Valve.
 2. Air Vent

PART 3 EXECUTION

1. INSTALLATION

- A. Install Air & Sediment Separator in accordance with manufacturer's instructions.
- B. Unit shall be a Bell & Gossett[®] Sediment Removal Separator Model SRS-_____.

END OF SECTION