

SECTION 23 05 03 {15106}

PIPES AND TUBES FOR HVAC PIPING AND EQUIPMENT

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This section includes pipe materials and fittings normally encountered in HVAC piping systems and common to more than one section in this Division.

This section is intended to be used as standalone section to specify pipe materials and fittings for entire Division. When this section is used, suggest deleting piping specifications in individual piping system specification sections and reference this section.

Refrigerant piping is contained in SPECTEXT Section 23 23 00 {15184}. Piping for site utilities may be included in applicable site utility sections or included in this section. Piping for underground services such as hot water, chilled water, steam, steam condensate, and fuel oil are included in SPECTEXT Section 33 61 00 {02552}, Section 33 63 00 {02554} and Section 33 52 13 {02556}.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at www.4specs.com, ARCAT at www.arcata.com, First Source at www.reedfirstsource.com, SpecSource at www.specsource.com, and Sweets Network at products.construction.com.

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at supportcenter@csrf.org to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at www.spectext.com for current product announcements.

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: Pipe and pipe fittings for the following systems:
 - 1. Pool condenser water piping.
 - 2. Heating water piping.
 - 3. Glycol piping.
 - 4. Chilled water piping.
 - 5. Condenser water piping.
 - 6. Radiant heating piping.
 - 7. Equipment drains and over flows.
 - 8. Engine exhaust.
 - 9. Low pressure steam piping.
 - 10. Low pressure steam condensate piping.
 - 11. Medium and high pressure steam piping.

12. Medium and high pressure steam condensate piping.
13. Fuel oil piping.
14. Fuel oil protector piping.
15. Fuel oil piping underground containment system.
16. Natural gas piping.
17. LPG gas piping.
18. Unions and flanges.
19. Underground pipe markers.
20. Bedding and cover materials.

B. Related Sections:

Use the following reference when firestopping is specified in Division 07.

1. Section 07 84 00 - Firestopping: Product requirements for firestopping for placement by this section.
2. Section 08 31 13 - Access Doors and Frames: Product requirements for access doors for placement by this section.
3. Section 09 90 00 - Painting and Coating: Product and execution requirements for painting specified by this section.
4. Section 23 05 16 - Expansion Fittings and Loops for HVAC Piping Piping Expansion Compensation: Product requirements for piping expansion compensation devices for placement by this section.
5. Section 23 05 23 - General-Duty Valves for HVAC Piping: Product requirements for valves for placement by this section.

Retain choice in the following paragraph when firestopping is specified in this Division.

6. Section 23 05 29 - Hangers and Supports for HVAC Piping and Equipment: Product requirements for pipe hangers and supports [and firestopping] for placement by this section.
7. Section 23 05 48 - Vibration and Seismic Controls for HVAC Piping and Equipment: Product requirements for vibration isolation for placement by this section.
8. Section 23 07 00 - HVAC Insulation: Product requirements for piping insulation for placement by this section.
9. Section 23 21 16 - Hydronic Piping Specialties: Product requirements for hydronic piping specialties for placement by this section.
10. Section 23 22 16 - Steam and Condensate Piping Specialties: Product requirements for steam and condensate piping specialties for placement by this section.
11. Section 31 05 16 - Aggregates for Earthwork: Aggregate for backfill in trenches.
12. Section 31 23 16 - Excavation: Product and execution requirements for excavation and backfill required by this section.
13. Section 31 23 17 - Trenching: Execution requirements for trenching for underground piping systems.
14. Section 31 23 23 - Fill: Execution requirements for backfilling required by this section.