

Summary of Modifications/Changes in this Update

This Summary of Changes is for information only.
It is not a part of the referenced document, and should not be used for project documentation.

U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

DATE OF THIS VERSION (new)

September 1, 2026

TITLE OF DOCUMENT (new title if applicable)

SECTION 23 21 13 HYDRONIC PIPING

DATE OF VERSION BEING SUPERSEDED (old):

June 1, 2025

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

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SUMMARY OF CHANGES IN THIS VERSION:

Updated this Specification to implement Standards Alert SA-029 content in the VA TIL as follows:

1. Revised *Type K or L* copper to become *Type L* copper in paragraphs 2.2.A.2 and 2.2.B only.
2. Revised reference to Schedule 40 to become STD (Standard) Schedule in paragraph 2.2.A.1 only.

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DATE OF THIS VERSION (new)

June 1, 2025

TITLE OF DOCUMENT (new title if applicable)

SECTION 23 21 13 HYDRONIC PIPING

DATE OF VERSION BEING SUPERSEDED (old):

March 1, 2023

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

SECTION 23 21 13 HYDRONIC PIPING

SUMMARY OF CHANGES IN THIS VERSION:

1. Edit spec note in 2.3 to remove manufactures name, but still prohibit compression and slip on fittings
2. Added spec note in 2.4 to prohibit compression and mechanical press on fittings
3. Removed mechanically formed tee connections from the specifications

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DATE OF THIS VERSION (new)

March 1, 2023

TITLE OF DOCUMENT (new title if applicable):

Hydronic Piping , 23 21 13

DATE OF VERSION BEING SUPERSEDED (old):

February 1, 2020

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Hydronic Piping , 23 21 13

SUMMARY OF CHANGES IN THIS VERSION:

1. General:
 - Added additional spec writer note instructions.
 - Made minor updates for consistency throughout the specification.
2. Removed Definitions (added reference to 23 05 10 for acronyms)
3. Updated section 1.2 Related Work
4. Updated section 1.3 Applicable Publications
5. Reference 23 05 11 in the section 1.6 As Built Documentation
6. Added spec writer note that prohibits compression fittings
7. Added gate valves
8. Added braided hoses

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DATE OF THIS VERSION:

February 1, 2020

TITLE OF DOCUMENT:

HYDRONIC PIPING, 23 21 13

DATE OF VERSION BEING SUPERSEDED (old):

August 1, 2017

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

HYDRONIC PIPING, 23 21 13

SUMMARY OF CHANGES IN THIS VERSION:

1. Provided a SPEC WRITER NOTE on the first page for updating and editing the Applicable Publication list. (Provide the year of latest edition to each publication listed in Article 1.3 APPLICABLE PUBLICATIONS.)
2. Coordinated the Sections title through out the body of the section (PART 1 - GENERAL, PART 2 – PRODUCTS and Part 3 – EXECUTION).
3. Rearraged the sections accordingly and revised the list under ARTICLE 1.2 RELATED WORK.
4. Corrected the section titles throughout this section to match the master list on the TIL.
5. Added the following SPEC WRITER NOTE in Artcle 1.3 APPLICABLE PUBLICATIONS. (Insert the year of approved latest edition of the publications between the brackets and delete the brackets // // if applicable to this project.)
6. Updated the dated of the edition for the applicable publications and left the brackets in place for the Spec Writer to take an action.
7. Corrected misspelled words and made general minor revisions.

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DATE OF THIS VERSION (new)

August 1, 2017

TITLE OF DOCUMENT (new title if applicable):

23 21 13-Hydronic Piping

DATE OF VERSION BEING SUPERSEDED (old):

September 1, 2012

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

23 21 13-Hydronic Piping

SUMMARY OF CHANGES IN THIS VERSION:

1. Par 1.1.A.2. Added “for HVAC systems”
2. Added Par 1.1.B. “A complete listing of all acronyms and abbreviations are included in
//Section 23 05 10, COMMON WORK RESULTS FOR BOILER PLANT AND STEAM
GENERATION// //and in// //Section 23 05 11, COMMON WORK RESULTS FOR HVAC//.”
3. Par 1.2. Added
 - Section 01 81 13, SUSTAINABLE CONSTRUCTION REQUIREMENTS
 - Section 01 91 00, GENERAL COMMISSIONING REQUIREMENTS
 - Section 11 41 21, WALK-IN COOLERS AND FREEZERS
 - Section 22 05 33, HEAT TRACING FOR PLUMBING PIPING
 - Section 23 05 10, COMMON WORK RESULTS FOR BOILER PLANT AND STEAM
GENERATION
 - Section 23 05 41, NOISE AND VIBRATION CONTROL FOR HVAC PIPING AND
EQUIPMENT
 - Section 23 08 00, COMMISSIONING OF HVAC

Section 23 09 23 DIRECT-DIGITAL CONTROL SYSTEM FOR HVAC
Section 23 22 13, STEAM AND CONDENSATE HEATING PIPING

4. Par 1.2. Deleted
Section 03 30 00 Cast in Place Concrete
Section 07 12 00 Built up Bituminous Waterproofing
Section 07 13 52 Modified Bituminous Sheet Waterproofing
Section 33 10 00 Water Utilities
5. Relocated Par 1.3 Applicable Publications
6. Par 1.3 Added Spec Writer note.
7. Par 1.3 Updated publications, deleted some.
8. Par 1.4 Submittals. Added verbiage on the number of copies, compliance, and manufacturer's literature, materials of construction, O&M manuals, Completed System Readiness checklist, training plans and instructor qualifications, Bio-Based Materials, etc.
9. General: Put metric units ahead of English units.
10. Added Par 1.6 As-built Documentation.
11. General: Inserted metric versions of referenced standards.
12. Par 2.2.B. Deleted "and All Solar Hot Water"
13. Par 2.3.B. Deleted "Contractor's option: Grooved mechanical couplings and fittings are optional"
14. Deleted Par 2.3.D.
15. Par 2.6.C. Added "Dielectric gasket material shall be compatible with hydronic medium."
16. Par 2.8 Deleted Designer Note
17. 2.8.D.2.c.3 references "Contractor's Choice" have been removed. Added designer note regarding use Ball or Butterfly valve in lieu of Gate Valve.
18. General: Deleted Grooved or Mechanical coupling connections and fittings
19. Par 2.13.A.4. Revised ASME reference to BPVC Section VIII
20. Par 2.13.C. Added "pre-piped and pre-wired"
21. Par 2.13.E, F, G, I Revised ASME reference to BPVC Section VIII.
22. Par 2.13.J Added "on drawings"
23. Par 2.13.K Added Spec Writer notes and Buffer Tank
24. Par 2.16.B. Deleted P" PETE'S 500 XL is an example"
25. Par 2.17.E. Corrected HW scale range.

- 26. Par 2.19.A, E.4 NEC changed to NFPA 70
- 27. Added Par 3.1.A. Added "If an installation is unsatisfactory to the COR, the Contractor shall correct the installation at no additional cost or time to the Government"
- 28. General" Changed Resident Engineer to COR
- 29. Added Par 3.9, 3.10, 3.11

Modifications/Changes in this update

Department of Veterans Affairs



Office of Construction & Facilities
Management

DATE SUBMITTED: _08_/_15_/_12_

DESCRIPTION OF DOCUMENT:

(previous section title, number and date)

Hydronic Piping, 23 21 13 (date: 03-10)

CHANGES MADE:

Mechanical press sealed fittings were removed from the Specification as an option for joint fittings for copper tubing
