

Summary of Modifications/Changes in this Update

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

DATE OF THIS VERSION (new)

March 1, 2024

TITLE OF DOCUMENT (new title if applicable)

SECTION 23 22 13 STEAM AND CONDENSATE HEATING PIPING

DATE OF VERSION BEING SUPERSEDED (old):

August 1, 2023

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

SECTION 23 22 13 STEAM AND CONDENSATE HEATING PIPING

SUMMARY OF CHANGES IN THIS VERSION:

1. Edited 2.5 D. 1 Shut-off Valves:
 - a. Replaced "Gate" with "Ball"

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DATE OF THIS VERSION (new)

August 1, 2023

TITLE OF DOCUMENT (new title if applicable)

232213 Steam and Condensate Heating Piping

DATE OF VERSION BEING SUPERSEDED (old):

June 1, 2023

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

232213 Steam and Condensate Heating Piping

SUMMARY OF CHANGES IN THIS VERSION:

1. Edited 2.5 VALVES
 - E. Added Ball Valves and types.
 - Moved all other valves up by one letter.

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DATE OF THIS VERSION (new)

June 1, 2023

TITLE OF DOCUMENT (new title if applicable)

23 22 13 Steam and Condensate Heating Piping

DATE OF VERSION BEING SUPERSEDED (old):

April 1, 2023

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

23 22 13 Steam and Condensate Heating Piping

SUMMARY OF CHANGES IN THIS VERSION:

1. Edited 2.10 STEAM SYSTEM COMPONENTS
H.2. Added Stainless-Steel.

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DATE OF THIS VERSION (new)

April 1, 2023

TITLE OF DOCUMENT (new title if applicable):

Steam and Condensate Heating Piping, 23 22 13

DATE OF VERSION BEING SUPERSEDED (old):

October 1, 2022

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

Steam and Condensate Heating Piping, 23 22 13

SUMMARY OF CHANGES IN THIS VERSION:

1. Updated references and dates on standards.
2. Coordinated order of paragraphs with other sections in Division 23.
3. Corrected grammatical, punctuation and typographical errors both for corrections and for consistency with the other sections and divisions.
4. 1.5 A changed to reference Section 23 05 10 / 23 05 11 for consistency.
5. Added option for EC motors on unitary equipment as that is the only option available from many manufacturers.
6. Added moisture separators.
7. Wireless trap monitoring.
8. Factory steam trap station assemblies.
9. Added or updated Clean steam generators for humidification both steam to steam and electric.
10. Changes must and wills to shall

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DATE OF THIS VERSION (new)

October 1, 2022

TITLE OF DOCUMENT (new title if applicable):

Steam and Condensate Heating Piping, SECTION 23 22 13

DATE OF VERSION BEING SUPERSEDED (old):

February 1, 2020

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

SUMMARY OF CHANGES IN THIS VERSION:

1. Updated 2.10 STEAM SYSTEM COMPONENTS, C.4.
 - a. Removed “each valve”
 - b. Replaced with “the combined PRV valves, or the bypass valve”
2. Updated 2.10 STEAM SYSTEM COMPONENTS, C. Added “5. The bypass valve shall be equal to or +10 percent of the combined capacity of the PRV valves”.

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DATE OF THIS VERSION:

February 1, 2020

TITLE OF DOCUMENT:

STEAM and CONDENSATE HEATING PIPING, 23 22 13

DATE OF VERSION BEING SUPERSEDED (old):

August 1, 2017

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

STEAM and CONDENSATE HEATING PIPING, 23 22 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. Revised Steam Trap Body in Paragraphs 2.10.G.2 and Steam Trap Piping in Article 3.5.
3. Coordinated the Sections title through out the body of the section (PART 1 - GENERAL, PART 2 – PRODUCTS and Part 3 – EXECUTION).
4. Rearranged the sections accordingly and revised the list under Article 1.2 RELATED WORK.
5. Corrected the section titles throughout this section to match the master list on the TIL.
6. Added the following SPEC WRITER NOTE in Article 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.)
7. Updated the date of the Applicable Publications and left the brackets for the Spec Writer to take an action.
8. 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 22 13-STEAM AND CONDESATE PIPING

DATE OF VERSION BEING SUPERSEDED (old):

February 1, 2015

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

23 22 13-STEAM AND CONDENSATE PIPING

SUMMARY OF CHANGES IN THIS VERSION:

1. Added Par 1.1.C. "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//."
2. Par 1.2. Added
 - Section 01 00 00, GENERAL REQUIREMENTS
 - Section 01 81 13, SUSTAINABLE CONSTRUCTION REQUIREMENTS
 - Section 01 91 00, GENERAL COMMISSIONING REQUIREMENTS
 - Section 09 91 00, PAINTING
 - Section 23 05 10, COMMON WORK RESULTS FOR BOILER PLANT AND STEAM GENERATION
 - Section 23 05 93, TESTING, ADJUSTING, AND BALANCING FOR HVAC
 - Section 23 08 00, COMMISSIONING OF HVAC
 - Section 23 22 13, STEAM AND CONDENSATE HEATING PIPING

3. Relocated Par 1.3 Applicable Publications.
4. Par 1.3 Added Spec Writer note.
5. Par 1.3 Updated publications, deleted some.
6. 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.
7. General: Put metric units ahead of English units.
8. Added Par 1.6 As-built Documentation.
9. General: Inserted metric versions of referenced standards.
10. Par 2.2.B. also General: Deleted all copper pipe and fitting references.
11. Changed Par 2.10.K.6 from NEMA 1 to NEMA 4 enclosure.
12. Par 2.11.B. Added "pre-piped and pre-wired" and "or skid".
13. Par 2.11.C.3 Added "deviation from set point". Change "capability" to "capacity".
14. Par 2.11.C.5 Updated Designer Note.
15. Par 2.11.C.6 Deleted Designer Note and revised par to eliminate pneumatic and apply to DDC PRV valves only.
16. Par 2.11.D. Revised ASME reference to BPVC Section VIII and added "Valve shall have stainless steel seats and trim."
17. Par 2.11.E. Added "percent above".
18. Par 2.11.G.2 Added "The use of 4 bolt raised face flange is required. The use of unions are unacceptable for steam trap maintenance."
19. Added Par 2.11.G.8.
20. Par 2.11.J Revised Designer Note and added "steam to steam".
21. Par 2.11.J.1. Added "Any make-up water to these units shall be less than 1 ppm hardness. A dual tower water softener with brine tank and automatic regeneration shall be provided, if necessary".
22. Par 2.12.C Revised table of pressure ranges.
23. General" Changed Resident Engineer to COR.
24. Part 3 Added Spec Writer Note.
25. 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".

26. Par 3.4. Added Spec Writer Note.
27. Par 3.7.A Revised to read” Steam, Condensate and Vent Piping: The piping system shall be flushed clean prior to equipment connection. Cleaning includes pulling all strainer screens and cleaning all scale/dirt legs during startup operation. Contractor shall be responsible for damage caused by inadequately cleaned/flushed systems.”
28. Added Par 3.8, 3.9, 3.10, 3.11.

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DATE OF THIS VERSION:

February 1, 2015

TITLE OF DOCUMENT:

Steam and Condensate Heating Piping, 23 22 13

DATE OF VERSION BEING SUPERSEDED (old):

March 1, 2010

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

Steam and Condensate Heating Piping, 23 22 13

SUMMARY OF CHANGES IN THIS VERSION:

1. Added Section 01 33 23, Shop Drawings, Product Data, and Samples under Paragraph 1.2- Related Work.
2. Corrected the title of Section 23 07 11 to read HVAC and BOILER PLANT INSULATION.
3. Renumbered the paragraphs accordingly and revised the list under Paragraph 1.2 Related Work.
4. Corrected the section titles throughout this section to match the master list on the TIL.
5. Modified Paragraph 2.12.E to address the pressure requirement.
6. Modified Paragraph 2.12.G.2 to address the requirement of 4 bolt raised face flange.
7. Modified Paragraph 2.12.J.3 to address the requirement of stainless steel tubes.
8. Made general minor revisions.