

SECTION 23 05 23 {15111}

GENERAL-DUTY VALVES FOR HVAC PIPING

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This section includes ball, butterfly, check, gate, and globe valves used in HVAC piping systems.

This section includes valves common to more than one section in this Division. Specialty valves, such as valves used in refrigeration systems, are included with applicable section. Special function valves, such as relief valves, pressure reducing valves, and flow control valves are located in applicable piping section.

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

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 conflicts among 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:

1. Gate valves.
2. Globe valves.
3. Ball valves.
4. Plug valves.
5. Butterfly valves.
6. Check valves.

B. Related Sections:

1. Section 23 05 03 - Pipes and Tubes for HVAC Piping and Equipment: Product and installation requirements for piping materials applying to various system types.
2. Section 23 05 29 - Hangers and Supports for HVAC Piping and Equipment: Product and installation requirements for pipe hangers and supports.

3. Section 23 07 00 - HVAC Insulation: Product and installation requirements for insulation for valves.
4. Section 23 11 13 - Facility Fuel-Oil Piping: Product and installation requirements for [piping,] [piping specialties,] and equipment used in fuel oil piping systems.
5. Section 23 11 23 - Facility Natural-Gas Piping: Product and installation requirements for [piping,] [piping specialties,] and equipment used in natural gas piping systems.
6. Section 23 11 26 - Facility Liquid-Petroleum Gas Piping: Product and installation requirements for [piping,] [piping specialties,] and equipment used in LPG piping systems.
7. Section 23 21 13 - Hydronic Piping: Product and installation requirements for piping used in hydronic piping systems.
8. Section 23 21 16 - Hydronic Piping Specialties: Product and installation requirements for piping specialties used in hydronic piping systems.
9. Section 23 22 13 - Steam and Condensate Heating Piping: Product and installation requirements for piping used in steam and steam condensate piping systems.
10. Section 23 22 16 - Steam and Condensate Piping Specialties: Product and installation requirements for piping specialties used in steam and steam condensate, piping systems.
11. Section 23 23 00 - Refrigerant Piping: Product and installation requirements for valves and piping specialties used in refrigeration systems.
12. Section 23 24 16 - Internal-Combustion Engine Exhaust Piping: Product and installation requirements for piping used in engine exhaust piping systems.
13. Section 23 56 13 - Heating Solar Collectors: Product and installation requirements for valves used in solar heating systems.

C. Related Sections:

1. Section 13610 - Solar Flat Plate Collectors: Product and installation requirements for valves used in solar heating systems.
2. Section 15061 - Hangers and Supports for HVAC Piping and Equipment: Product and installation requirements for pipe hangers and supports.
3. Section 15081 - HVAC Insulation: Product and installation requirements for insulation for valves.
4. Section 15106 - Pipes and Tubes for HVAC Piping and Equipment: Product and installation requirements for piping materials applying to various system types.
5. Section 15120 - Hydronic Piping Specialties: Product and installation requirements for piping specialties used in hydronic piping systems.
6. Section 15121 - Steam and Condensate Piping Specialties: Product and installation requirements for piping specialties used in steam and steam condensate, piping systems.
7. Section 15180 - Hydronic Piping: Product and installation requirements for piping used in hydronic piping systems.
8. Section 15181 - Steam and Condensate Heating Piping: Product and installation requirements for piping used in steam and steam condensate piping systems.
9. Section 15182 - Internal-Combustion Engine Exhaust Piping: Product and installation requirements for piping used in engine exhaust piping systems.
10. Section 15184 - Refrigerant Piping: Product and installation requirements for valves and piping specialties used in refrigeration systems.
11. Section 15191 - Facility Fuel-Oil Piping: Product and installation requirements for [piping,] [piping specialties,] and equipment used in fuel oil piping systems.
12. Section 15195 - Facility Natural-Gas Piping: Product and installation requirements for [piping,] [piping specialties,] and equipment used in natural gas piping systems.