

SECTION 22 05 23 {15110}

GENERAL-DUTY VALVES FOR PLUMBING PIPING

{GENERAL-DUTY VALVES FOR PLUMBING PIPING}

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

This section includes valves common to more than one section in this Division. Specialty valves, such as valves used in medical gas 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. Ball valves.
3. Plug valves.
4. Butterfly valves.
5. Check valves.

B. Related Sections:

1. Section 22 05 03 - Pipes and Tubes for Plumbing Piping and Equipment: Product and installation requirements for piping materials applying to various system types.
2. Section 22 05 29 - Hangers and Supports for Plumbing Piping and Equipment: Product and installation requirements for pipe hangers and supports.
3. Section 22 07 00 - Plumbing Insulation: Product and installation requirements for insulation for valves.

4. Section 22 11 00 - Facility Water Distribution: Product and installation requirements for [piping,] [piping specialties,] and equipment used in domestic water systems.
5. Section 22 13 00 - Facility Sanitary Sewerage: Product and installation requirements for [piping,] [piping specialties,] and equipment used in sanitary waste and vent systems.
6. Section 22 14 00 - Facility Storm Drainage: Product and installation requirements for [piping,] [piping specialties,] and equipment used in storm drainage systems.
7. Section 22 15 00 - General Service Compressed-Air Systems: Product and installation requirements for valves used in compressed air systems.
8. Section 22 51 00 - Swimming Pool Plumbing Systems: Product and installation requirements for [piping,] [piping specialties,] and equipment used in swimming pool systems.
9. Section 22 60 13 - Medical Gas and Vacuum Systems: Product and installation requirements for valves used in medical gas systems.

C. Related Sections:

1. Section 15060 - Hangers and Supports for Plumbing Piping and Equipment: Product and installation requirements for pipe hangers and supports.
2. Section 15080 - Plumbing Insulation: Product and installation requirements for insulation for valves.
3. Section 15105 - Pipes and Tubes for Plumbing Piping and Equipment: Product and installation requirements for piping materials applying to various system types.
4. Section 15140 - Domestic Water Piping: Product and installation requirements for [piping,] [piping specialties,] and equipment used in domestic water systems.
5. Section 15150 - Sanitary Waste and Vent Piping: Product and installation requirements for [piping,] [piping specialties,] and equipment used in sanitary waste and vent systems.
6. Section 15160 - Storm Drainage Piping: Product and installation requirements for [piping,] [piping specialties,] and equipment used in storm drainage systems.
7. Section 15175 - Swimming Pool Piping and Equipment: Product and installation requirements for [piping,] [piping specialties,] and equipment used in swimming pool systems.
8. Section 15212 - Medical Gas Systems: Product and installation requirements for valves used in medical gas systems.
9. Section 15214 - Compressed Air Systems: Product and installation requirements for valves used in compressed air systems.

1.2 REFERENCES

List reference standards included within text of this section. Edit the following for Project conditions.

A. ASTM International:

1. ASTM D1785 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.
2. ASTM D4101 - Standard Specification for Propylene Injection and Extrusion Materials.

B. Manufacturers Standardization Society of the Valve and Fittings Industry:

1. MSS SP 67 - Butterfly Valves.
2. MSS SP 70 - Cast Iron Gate Valves, Flanged and Threaded Ends.
3. MSS SP 71 - Cast Iron Swing Check Valves, Flanged and Threaded Ends.