



Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Fittings for Chemical Waste Drainage Systems¹

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1. Scope*

1.1 This specification covers the performance requirements of CPVC pipe, fittings and solvent cements used in chemical waste drainage systems.

1.2 A system is made up of pipe, fittings and solvent cement that meet the requirements of this standard.

NOTE 1—Consult the manufacturer's chemical resistance recommendations for chemical waste drainage applications prior to use.

1.3 The text of this specification references notes, footnotes and appendices that provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the specification.

1.4 The pressure tests described in this standard are laboratory hydrostatic tests that are intended to verify joint/system integrity. They are not intended for use as field tests of installed systems.

1.5 Due to inherent hazards associated with testing components and systems with compressed air or other compressed gases, no such testing shall be done unless the component manufacturer gives approval in writing.

NOTE 2—Pressurized (compressed) air or other compressed gases contain large amounts of stored energy, which present serious safety hazards should a system fail for any reason.

1.6 Mechanical joints used for joining pipe and fittings of different materials are provided for in this specification. They include common flanges, couplings, and unions.

1.7 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.8 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appro-*

priate safety and health practices and determine the applicability of regulatory limitations prior to use.

NOTE 3—This specification specifies dimensional, performance, and test requirements for fluid handling applications but does not address venting of combustion gases.

2. Referenced Documents

2.1 ASTM Standards:²

D543 Practices for Evaluating the Resistance of Plastics to Chemical Reagents

D618 Practice for Conditioning Plastics for Testing

D1600 Terminology for Abbreviated Terms Relating to Plastics

D1784 Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds

D2122 Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings

D2321 Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications

D2412 Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading

D2444 Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)

D3311 Specification for Drain, Waste, and Vent (DWV) Plastic Fittings Patterns

F402 Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastic Pipe and Fittings

F412 Terminology Relating to Plastic Piping Systems

F493 Specification for Solvent Cements for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe and Fittings

F1498 Specification for Taper Pipe Threads 60° for Thermoplastic Pipe and Fittings

F2135 Specification for Molded Drain, Waste, and Vent (DWV) Short-Pattern Plastic Fittings

¹ This specification is under the jurisdiction of ASTM Committee F17 on Plastic Piping Systems and is the direct responsibility of Subcommittee F17.63 on DWV.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.