



Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings¹

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1. Scope*

1.1 This specification covers requirements and test methods for fabricated poly(vinyl chloride) (PVC) plastic schedule 40 drainage and DWV fittings to be used with piping manufactured in accordance with Specifications **D2665** or **F891**. These fabricated fittings are manufactured from pipe, or from a combination of pipe and injection molded parts.

1.2 The requirements of this specification are to provide fabricated PVC fittings suitable for drainage and venting of sanitary waste systems, storm water systems, and certain other liquid wastes. Fittings shall have solvent cement joints, gasket joints or a combination thereof.

1.3 The text of this specification references notes, footnotes, and appendixes 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 values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are provided for information only.

1.5 The following safety hazards caveat pertains only to the test method portion, Section 10, of this specification. *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 appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

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

D1785 Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120

D2122 Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings

D2564 Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems

D2665 Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings

D2855 Practice for Making Solvent-Cemented Joints with Poly(Vinyl Chloride) (PVC) Pipe and Fittings

D3212 Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals

F412 Terminology Relating to Plastic Piping Systems

F477 Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe

F656 Specification for Primers for Use in Solvent Cement Joints of Poly(Vinyl Chloride) (PVC) Plastic Pipe and Fittings

F891 Specification for Coextruded Poly(Vinyl Chloride) (PVC) Plastic Pipe With a Cellular Core

F913 Specification for Thermoplastic Elastomeric Seals (Gaskets) for Joining Plastic Pipe

3. Terminology

3.1 *Definitions*—Definitions are in accordance with Terminology **F412**, and abbreviations are in accordance with Terminology **D1600**, unless otherwise specified.

4. Materials and Manufacture

4.1 *Basic Materials*—The molded components for fabricated fittings shall be made of virgin or rework PVC compounds meeting or exceeding the requirements of Class 12454 as defined in Specification **D1784**.

4.1.1 The pipe shall be made of PVC that meets the requirements of the Materials Section of Specification **D1785** or **D2665**.

4.2 *Gaskets*—Elastomeric seals (gaskets) shall comply with the requirements of Specification **F477** or **F913**.

¹ This standard is under the jurisdiction of 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.