



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 Specification D 2665, D 1785, or F 891. 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.

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:

D 618 Practice for Conditioning Plastics for Testing²

D 1600 Terminology for Abbreviated Terms Relating to Plastics²

D 1784 Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds²

D 1785 Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120³

D 2122 Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings³

D 2564 Specifications for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems³

D 2665 Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings³

D 2855 Practice for Making Solvent-Cemented Joints with Poly(Vinyl Chloride) (PVC) Pipe and Fittings³

F 412 Terminology Relating to Plastic Piping Systems³

F 656 Specification for Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Pipe and Fittings³

F 891 Specification for Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core³

3. Terminology

3.1 *Definitions:* Definitions are in accordance with Terminology F 412, and abbreviations are in accordance with Terminology D 1600, 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-B as defined in Specification D 1784.

4.2 The pipe shall be made of PVC that meets the requirements of the Materials Section of Specification D 1785 or D 2665.

5. General Requirements

5.1 *Fabrication Joint Material*—The fabrication joint material or reinforcing overlays shall be of the type, strength, and properties suitable for intended fabrication. It is the decision of the manufacturer as to what material will be used. The PVC primer shall meet the requirements of Specification F 656. The PVC solvent cement shall meet the requirements of Specification D 2564.

¹ This standard is under the jurisdiction of Committee F-17 on Plastic Piping Systems and is the direct responsibility of Subcommittee F17.63 on DWV.

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² *Annual Book of ASTM Standards*, Vol 08.01.

³ *Annual Book of ASTM Standards*, Vol 08.04.