

**Appendix B - Applicable Industry Standards & Test Methods**

Standards provide greater assurance of product performance and consistency, and are available to assist design engineers in system specification. The most frequently referenced industry standards for plastic piping systems are ASTM Standard Specifications and Practices. Along with ASTM Standards, additional product specifications and certifications form the basis of product conformance to which Spears® products are manufactured. Although not inclusive, the following list of internationally recognized standards, specifications, test methods and practices relate to PVC and CPVC thermoplastic piping products and related components.

**ASTM STANDARD SPECIFICATIONS**

<b>ASTM D1784</b>	Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds
<b>ASTM D1785</b>	Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80 and 120
<b>ASTM D2241</b>	Standard Specification for Poly (Vinyl Chloride) (PVC) Pressure Rated Pipe (SDR Series)
<b>ASTM D2464</b>	Standard Specification for Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
<b>ASTM D2466</b>	Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40
<b>ASTM D2467</b>	Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
<b>ASTM D2564</b>	Standard Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems
<b>ASTM D2665</b>	Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
<b>ASTM D2672</b>	Standard Specification for Joints for IPS PVC Pipe Using Solvent Cement
<b>ASTM D2846</b>	Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems
<b>ASTM D3139</b>	Standard Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals
<b>ASTM D3311</b>	Standard Specification for Drain, Waste, and Vent (DWV) Plastic Fittings Patterns
<b>ASTM F437</b>	Standard Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
<b>ASTM F438</b>	Standard Specification for Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40
<b>ASTM F439</b>	Standard Specification for Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
<b>ASTM F441</b>	Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80
<b>ASTM F442</b>	Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR)
<b>ASTM F477</b>	Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe
<b>ASTM F493</b>	Standard Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings
<b>ASTM F656</b>	Standard Specification for Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride)(PVC) Plastic Pipe and Fittings
<b>ASTM F913</b>	Standard Specification for Thermoplastic Elastomeric Seals (Gaskets) for Joining Plastic Pipe
<b>ASTM F1498</b>	Standard Specification for Taper Pipe Threads 60° for Thermoplastic Pipe and Fittings
<b>ASTM F1866</b>	Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings
<b>ASTM F1970</b>	Standard Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems
<b>ASTM F2618</b>	Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Fittings for Chemical Waste Drainage Systems

**ASTM STANDARD TEST METHODS**

<b>ASTM D1598</b>	Standard Test Method for Time-to-Failure of Plastic Pipe Under Constant Internal Pressure
<b>ASTM D1599</b>	Standard Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe & Fittings
<b>ASTM D2122</b>	Standard Test Method for Determining Dimensions of Thermoplastic Pipe & Fittings
<b>ASTM D2152</b>	Standard Test Method for Adequacy of Fusion by Acetone Immersion
<b>ASTM D2412</b>	Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading
<b>ASTM D2444</b>	Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup
<b>ASTM D2837</b>	Standard Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials
<b>ASTM E84</b>	Standard Test Method for Surface Burning Characteristics of Building Materials
<b>ASTM F610</b>	Standard Test Method for Evaluating the Quality of Molded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings by the Heat Reversion Technique

**ASTM STANDARD PRACTICES**

<b>ASTM D2321</b>	Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications
<b>ASTM D2774</b>	Standard Practice for Underground Installation of Thermoplastic Pressure Piping
<b>ASTM D2855</b>	Standard Practice for Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings
<b>ASTM F402</b>	Standard Practice for Safe Handling of Solvent Cements, Primers, and Cleaners Used for Joining Thermoplastics Pipe and Fittings
<b>ASTM F645</b>	Standard Guide for Selection, Design, and Installation of Thermoplastic Water Pressure Systems
<b>ASTM F690</b>	Standard Practice for Underground Installation of Thermoplastic Pressure Piping Irrigation Systems
<b>ASTM F1057</b>	Standard Practice for Evaluating the Quality of Extruded Poly (Vinyl Chloride) (PVC) Pipe by the Heat Reversion Technique

**Suitable for Oil-Free air handling to 25 psi, not for distribution of compressed air or gas**

		
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