

Suggested Specification

System: PVC Schedule 80 Pressure Pipe and Fitting System

Scope: This specification covers PVC Schedule 80 pipe and fittings for pressure applications. This system is intended for pressure applications where the operating temperature will not exceed 140°F.

Specification: Pipe and fittings shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a Cell Class of 12454 as identified in ASTM D 1784.

PVC Schedule 80 pipe shall be Iron Pipe Size (IPS) conforming to ASTM D 1785. PVC Schedule 80 fittings shall conform to ASTM D 2467. PVC Schedule 80 threaded fittings shall conform to ASTM D 2464. Pipe and fittings shall be manufactured as a system and be the product of one manufacturer. All pipe and fittings shall be manufactured in the United States. Pipe and fittings shall conform to National Sanitation Foundation (NSF) Standard 61 or the health effects portion of NSF Standard 14.

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all local plumbing, building, and fire code requirements. Buried pipe shall be installed in accordance with ASTM F 1668. Solvent cement joints shall be made in a two step process with primer manufactured for thermoplastic piping systems and solvent cement conforming to ASTM D 2564. The system shall be protected from chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents not compatible with PVC compounds. Systems shall be hydrostatically tested after installation. **WARNING!** Never test with or transport/store compressed air or gas in PVC pipe or fittings.

Referenced Standards:

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| ASTM D 1784 | Rigid Vinyl Compounds |
| ASTM D 1785 | PVC Plastic Pipe, Schedule 80 |
| ASTM D 2464 | Threaded Fittings, Schedule 80 |
| or D 2467 | PVC Threaded Fittings, Schedule 80 |
| ASTM D 2467 | PVC Socket Fittings, Schedule 80 |
| ASTM D 2564 | Solvent Cements for PVC Pipe and Fittings |
| ASTM F 1668 | Procedures for Buried Plastic Pipe |
| NSF Standard 14 | Plastic Piping Components and Related Materials |
| NSF Standard 61 | Drinking Water System Components - Health Effects |

Note: Latest revision of each standard applies.

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