



INSTALLATION HANDBOOK: CPVC HOT & COLD WATER PIPING

INTRODUCTION

Chlorinated polyvinyl chloride (CPVC) pipe, tube, and fittings have been successfully used in hot and cold water distribution systems since 1960. From 1960 through 2000, enough CPVC tubing was sold to plumb millions of typical, single-family dwelling units and usage is increasing each year.

The product consists of SDR 11 CPVC tube made to the Copper Tube Size (CTS) ODs (outside diameters), and CPVC socket-type fittings. The standard covers sizes 1/2-inch through 2-inch and both the tube and fittings are tan in color. As hot and cold water piping, the system carries a continuous use rating of 100 psi at 180° F and 400 psi at 73° F. When sizes larger than 2-inch are needed, Sch. 80 CPVC pipe (ASTM F 441) made to iron pipe size (IPS) ODs (outside diameters), and Sch. 80 CPVC fittings (ASTM F 437 and F 439) are used. Some codes require proof testing of assemblies for 48 hours at 150 psi/210° F. Most producers have had these tests performed to qualify their products for use under such codes. CPVC CTS tube and CPVC IPS Sch 80 pipe are sold in straight lengths. Smaller diameter CTS tube is also sold in coils.

GENERAL INFORMATION

This handbook is intended to provide basic information for the installation of CPVC (Chlorinated Polyvinyl Chloride) piping¹ for hot and cold water distribution systems and is published for the benefit of installers, contractors, code officials, distributors, and home owners. The information has been presented as simply and concisely as possible, but the reader should be aware that more detailed information is available from the manufacturer of your CPVC piping or from the supplier of the raw material used in the piping. Some subjects in this handbook are interrelated and may be discussed in more than one section. The authors strongly recommend reading the entire handbook, so the user will be familiar with all aspects of the interrelated items.

The statements and descriptions in this handbook are informational only and are not intended as an endorsement or warranty with respect to any product or system. The Plastic Pipe and Fittings Association (PPFA) and its members make no warranties or representations as to the fitness of any product or system for any particular purpose; the suitability of any product or system for any specific application; or the performance of any product or system in actual construction.

In all cases, the appropriate local authorities should be consulted concerning the requirements covering the use of any particular product or system in any specific application. The manufacturer's label and/or instructions should also be followed. General questions on piping system design or installation described herein may be directed to the Plastic Pipe and Fittings Association.

¹ The term piping covers pipe, tube, and fittings, and the terms pipe and tube are used interchangeably.

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