

SUBMITTAL FOR CHARLOTTE PIPE® FLOWGUARD GOLD® CPVC COPPER TUBE SIZE (CTS) HOT AND COLD DOMESTIC WATER DISTRIBUTION SYSTEM

Date:	
Job Name:	Location:
Engineer:	Contractor:

Scope:

This specification covers Copper Tube Size (CTS) CPVC manufactured to standard dimensional ratio (SDR) 11 for hot and cold domestic water distribution. This system is intended for pressure applications where the operating temperature will not exceed 180° F at 100 psi.

Specification:

Pipe shall be manufactured from virgin rigid CPVC (chlorinated polyvinyl chloride) vinyl compounds with a cell class of 24448 as identified in ASTM D 1784. Fittings shall be manufactured from virgin rigid CPVC (chlorinated polyvinyl chloride) vinyl compounds with a cell class of 23447 as identified in ASTM D 1784.

FlowGuard Gold CTS CPVC pipe and fittings shall conform to ASTM D 2846. 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 NSF International Standards 14 and 61.

Installation

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all applicable plumbing, fire, and building code requirements. Buried pipe shall be installed in accordance with ASTM F 1668. Solvent cement joints shall be made using CPVC cement conforming to ASTM F 493. If a primer is required by local plumbing or building codes, then a primer conforming to ASTM F 656 should be used. The system shall be protected from chemical agents, fire-stopping materials, thread sealant, plasticized-vinyl products or other aggressive chemical agents not compatible with CPVC compounds. The system shall be hydrostatically tested after installation. **WARNING!** Never test with or transport/store compressed air or gas in CPVC pipe or fittings. Doing so can result in explosive failures and cause severe injury or death.

Referenced Standards:

ASTM D 1784: Rigid Vinyl Compounds

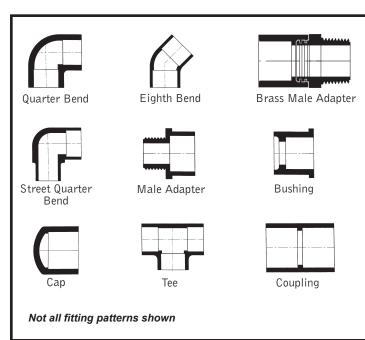
ASTM D 2846: CPVC Plastic Hot and Cold Water Distribution System

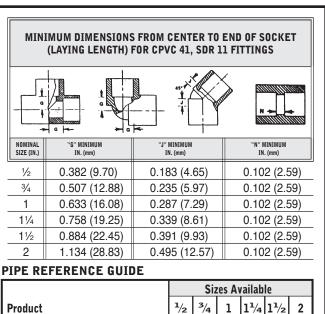
ASTM F 493: Solvent Cements for CPVC Pipe and Fittings

ASTM F 1668: Procedures for Buried Plastic Pipe

NSF Standard 14: Plastic Piping Components & Related Materials NSF Standard 61: Drinking Water System Components—Health Effects



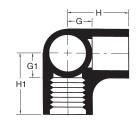




FlowGuard Gold® CPVC CTS SDR 11



Side Outlet Elbow SxSxFPT PVC PART NO. 2520



Size	Universal Part Number	Н	G	H1	G1	Approx. Wt. (Lbs.)
³ / ₄ χ ³ / ₄ χ ¹ / ₂	414-101	1%16	9/16	11/2	3/4	0.112
3/4 X 3/4 X 3/4	414-007	1%16	9/16	115/32	21/32	0.096

45 Degree Elbow SxS

PVC PART NO. 2309



Size	Universal Part Number	Н	J	Approx. Wt. (Lbs)
1/2	417-005	11/16	⁵ / ₁₆	0.040
3/4	417-007	11/16	11/32	0.047
1	417-010	17/16	⁵ / ₁₆	0.120
11/4	417-012	13/4	1/2	0.176
11/2	417-015	1 ²⁹ / ₃₂	19/32	0.216
2	417-020	1 ³¹ / ₃₂	²¹ / ₃₂	0.338
21/2	417-025	27/16	¹¹ / ₁₆	0.556
3	417-030	2 ²⁷ /32	²⁷ / ₃₂	0.835
4	417-040	33/32	1½2	1.296
6	417-060	5½	1 ⁵ / ₈	3.878
8	417-080	63/4	21/4	7.912