



# Specifications Sheet

## BOW FlowGuard Gold® Pipe & Fittings

BOW CPVC FlowGuard Gold® tubing and fittings are manufactured to ASTM Standard D2846 (Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold Water Distribution Systems) and CSA Standard B137.6 (CPVC Pipe, Tubing, and Fittings for Hot and Cold Water Distribution Systems).

BOW CPVC FlowGuard Gold® tubing and fittings are third party certified NSF International to the CPVC performance standards noted above as well as NSF Standard 14 (Plastic Piping Components and Related Materials) and NSF Standard 61 (Drinking Water System Components – Health Effects).

The material in the manufacture of the tubing and fittings meet the physical properties for CPVC Class 23447 as specified in ASTM Standard D1784 (Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds) as required by the CSA and ASTM CPVC performance standards.

BOW CPVC FlowGuard Gold® tubing is produced from ½ inch through 2 inch in SDR 11 dimensions with CTS (Copper Tube Size) outside diameters. SDR, or Standard Dimensional Ratio, means the wall thickness is directly proportional to the outside diameter. This results in all diameters carrying the same pressure capability. The system including joint, has a rated continuous working pressure of 100 psi at 180°F and 400 psi at 73°F.

All socket type joints shall be made employing solvent cements that meet or exceed the requirements of ASTM F493 (Standard Specification for Solvent Cements for CPVC Plastic Pipe and Fittings) or CSA B137.6 and primers that meet or exceed the requirements of ASTM F656 (Standard Specification for Primers for Use in Solvent Cement Joints of PVC Plastic Pipe and Fittings). Solvent cements and primers shall be listed with NSF International, CSA International or an accredited agency recognized by the Standard Council of Canada.

CPVC CTS SDR 11 tubing is recognized for water distribution in most model plumbing codes. These include plumbing codes in the

U.S. such as the National Standard Plumbing Code, International Plumbing Code, the Cabo One and Two Family Dwelling Code, Uniform Plumbing Code and in Canada, the National Plumbing Code of Canada.

This product is intended for hot and cold potable water distribution in single and multi family homes, apartments, high-rises, hotels/motels and commercial installations.

The dimensions of the product meet the requirements of CSA B137.6 and ASTM D2846. Refer to the Tables for dimensions of BOW CPVC FlowGuard Gold® tubing and fittings.

Also, the product is listed with ULC for flame spread and smoke developed ratings with a flame and smoke below 25/50 respectively when tested in accordance with CAN/ULC S102.2 (Standard method of test for surface burning characteristics of building materials and assemblies). Hence, the product is suitable in return air plenums and types of construction where the flame and smoke requirement is 25/50 or below. The product has also fire resistance listings with ULC design numbers J900, M516, W316 and W458 when tested to CAN/ULC S101 (Standard method of fire endurance tests of building construction and materials).

The product is also listed with ICC Evaluation Service for flame and smoke developed ratings with a flame and smoke below 25/50 respectively when tested in accordance with UL 723/ASTM E84 (Test for Surface Burning Characteristics of Building Materials). Hence, the product is suitable in return air plenums where UL723/ASTM E84 is enforced. The product has also fire resistance listings with UL design numbers K917, L588, U383 and V461 when tested to AINSI/UL 263 (Fire Tests of Building Construction and Materials).

Our third party listings can be verified at  
[www.nsf.org](http://www.nsf.org).

Our FlowGuard Gold® installation guide is available on our website at  
[www.bow-group.com](http://www.bow-group.com)

