

# SHORT FORM SPECIFICATION

## AWWA C900 BLUE BRUTE™

### SCOPE

This specification designates general requirements for 4" through 12" C.I.O.D.'s pipe produced in blue or white unplasticized polyvinyl chloride (PVC) plastic pressure pipe with integral bell and spigot joints for the conveyance of water and other fluids. This pipe shall meet the requirements of AWWA Standard C900, "Polyvinyl Chloride (PVC) Water Distribution Pipe."

### MATERIALS

All pipe shall be made from quality PVC resin, compounded to provide physical and mechanical properties that equal or exceed cell class 12454 as defined in ASTM D1784.

### HYDROSTATIC PROOF TESTING

Each standard length of pipe is tested up to 400 psi for Pressure Class 165; 600 psi for Pressure Class 235; 800 psi for Pressure Class 305 for a minimum of 5 seconds. The integral bell shall be tested with the pipe.

### STANDARD LAYING LENGTHS

Standard laying lengths are 20 feet for all sizes. Other lengths of 14 feet, Non-Hydrotested pipe is available upon request.

### PIPE

Where specified as such, all pipe shall be suitable for use as pressure conduit. Provisions must be made for expansion and contraction at each joint with an elastomeric gasket. The bell shall consist of an integral wall section with a factory installed, solid cross section Rieber® or other elastomeric gasket, which meets the requirements of ASTM F477. The bell section shall be designed to be at least as hydrostatically strong as the pipe barrel and meet the requirements of AWWA C900. The joint design shall meet the requirements of ASTM D3139 under both pressure and 22 in. Hg vacuum. Sizes and dimensions shall be as shown in this specification.

Pipe installation and usage shall be in compliance with JM Eagle™ Publication JME-03B, "Blue Brute™, Big Blue™ and Ultra Blue™ C900/C905/C909 Installation Guide" and Uni-Bell® Publication UNI-PUB-08-07, "Tapping Guide for PVC Pressure Pipe."

### QUICK BURST TEST

Randomly selected samples tested in accordance with AWWA C900 and UL 1285 shall withstand, without failure, the pressures listed below when applied for 60-70 seconds.

DR	PRESSURE CLASS (psi)		MINIMUM BURST PRESSURE AT 73°F (psi)
	AWWA C900-97/FM 1612	AWWA C900-07	
25	100	165	535
18	150	235	755
14	200	305	985

### DROP IMPACT TEST

Pipe shall withstand, without failure using Tup "B" and Flat Rate Holder "B", at 73°F, a tup impact energy of 100 ft-lbf for all Pressure Class of 4"-12" trade sizes. There shall be no visible evidence of shattering or splitting when the energy is imposed.