

PART 207 – POLYVINYL CHLORIDE (PVC) PIPE, WATER MAINS

- 207.1 Where polyvinyl chloride (PVC) pipe 4 inches diameter through 12 inches diameter is specified or required, it shall conform to and be tested in accordance with AWWA C900, "AWWA STANDARD for POLYVINYL CHLORIDE (PVC) PRESSURE PIPE, FOR WATER DISTRIBUTION, as herein modified. PVC water pipe shall be approved by the Underwriters Laboratory Sanitation Foundation Testing Laboratory for potable water pipe.
- 207.2 PVC pipe shall conform to pressure Class 200 (equivalent to Dimension Ratio 14) and shall have an outside diameter (OD) equal to the OD of equivalent size ductile iron pipe.
- 207.3 PVC pipe shall have integral wall-thickened bell ends and shall be jointed using one-piece elastomeric gaskets. Solvent cement jointing shall not be permitted.
- 207.4 Fittings for PVC pipe shall be polyethylene wrapped ductile iron conforming to Part 203 of these specifications or approved restrained joint systems as listed in material specification approved fittings manufacturers list.
- 207.5 Contractor shall submit certifications from the manufacturer that PVC pipe has been manufactured in accordance with AWWA C900, and that it meets the approval of the "NSF".
- 207.6 Where restrained joints are required, they shall be of a mechanical type assembly easily removed in field once assembled without special equipment. Assemblies shall be ANSI/AWWA approved. Setscrew type retainer glands will not be permitted.

PART 207A – HIGH DENSITY POLYETHYLENE (HDPE) PIPE, WATER MAIN

- 207A.1 Where high density polyethylene (HDPE) pipe 8 inches through 12 inches in diameter is specified or required, it shall conform to and be tested in accordance with AWWA C906 "POLYETHYLENE (PE) PRESSURE PIPE AND FITTINGS, FOR WATER DISTRIBUTION as herein modified. HDPE water pipe shall be approved by the Underwriters Laboratory Sanitation Foundation Testing Laboratory for potable water pipe.
- 207A.2 Polyethylene compounds utilized in the manufacture of products furnished under this specification shall be listed in PPI TR-4, have a grade of PE47 with a minimum cell classification of PE 445574C for PE4710 materials, as defined in ASTM D3350. In conformance with AWWA C906, they shall have a PPI recommended Hydrostatic Design Basis (HDB) of 1600 psi (PE4710) at a temperature of 73.4° F (23° C). The materials shall meet the following nominal physical property requirements: