

**Installation Standard
For
PVC COLD WATER BUILDING SUPPLY AND YARD PIPING**

IAPMO IS 8-2006

1.0 SCOPE

1.1 This standard shall govern the installation of PVC piping (with solvent cemented or elastomeric gasketed joints) in cold water building supply and yard piping. (See Section 2.7 and 2.8 for allowable location and pressure.) Installation, material and inspection shall comply with the current edition of the Uniform Plumbing Code [UPC]TM published by the International Association of Plumbing and Mechanical Officials, and shall also comply with this standard.

Note: The following sections of the Uniform Plumbing Code apply to PVC water piping.

218.0	Definition of PVC
310.0	Workmanship
313.0	Protection of Piping, Materials and Structures
314.0	Hangers and Supports
315.0	Trenching, Excavation, and Backfill
316.1.6	Solvent-Cement Plastic Pipe Joints
316.2.3	Plastic Pipe to Other Materials
Chapter 6	Water Supply and Distribution
606.2	Use of Joints
604.0	Materials
609.0	Depth of Piping Installation, Testing, Unions, and Location

Chapter 14

ASTM	American Society for Testing and Materials
IAPMO	International Association of Plumbing and Mechanical Officials
UPC	Uniform Plumbing Code published by IAPMO

APPLICABLE STANDARDS

Type of PVC for Pipe and Fittings	ASTM Standard
PVC 1120 or 1220	D1784
Pipe	
Bell-End Poly (vinyl chloride)	
PVC Pipe	D2672
PVC Schedule 40	D1785

Type of PVC for Pipe and Fittings	ASTM Standard
PVC Schedule 80	D1785
PVC 160 psi (1102.4 kPa)	(SDR 26)
PVC 200 psi (1378 kPa)	(SDR 21)
PVC 250 psi (1722.5 kPa)	(SDR 17)
PVC 315 psi (2170.4 kPa)	(SDR 13.5)
	D 2241
Fittings	
Schedule 40 (Socket)	D 2466
Schedule 80 (Socket)	D 2467
Schedule 80 (Threaded)	D 2464
Solvent Cement	
PVC Solvent Cement	D 2564
Primers	
PVC Primers	F 656

2.0 PRODUCT REQUIREMENTS

2.1 Minimum Standards

Material. Materials shall conform to the appropriate standard in Table 14-1 of the Uniform Plumbing Code. [UPC 301.1]

2.2 Pipe and Fittings. Pipe and fittings are manufactured from PVC plastic.

2.3 Markings

2.3.1 Pipe. PVC pipe markings shall be in accordance with ASTM D1785 or ASTM D2241. [UPC 301.1.2]

2.3.2 Fittings. PVC fitting markings shall be in accordance with ASTM D2464 or ASTM D2466 or ASTM D2467. [UPC 301.1.2]

***Note:** Size and material designation may be omitted on smaller fittings.

2.3.3 Solvent Cement. Solvent cement container markings shall be in accordance with ASTM D2564.

2.3.3.1 Color. Solvent cement shall not be purple in color.

2.3.4 Primers. Primer container markings shall be in accordance with ASTM F656.

2.3.4.1 Color. Primer shall be purple.

2.3.4.2 Position of Markings. The identifying markings on pipe and fittings shall be visible for inspection without moving materials.

2.4 Protection of Piping

2.4.1 Storage. Unprotected pipe should not be stored in direct sunlight. The pipe shall be stored in a way to protect it from mechanical damage (slitting, puncturing, etc.).