Installation Standard For POLYETHYLENE (PE) FOR GAS YARD PIPING

IAPMO IS 12-2006

1.0 1.1	SCOPE This standard shall govern the installation of polyethylene (PE) natural and liquified petroleum gas yard piping. 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		2.0 2.1 2.1.1	PRODUCT REQUIREMENTS Minimum Standards Materials. Pipe, tubing and fittings shall conform to the appropriate standards in Table 14-1 of the Uniform Plumbing Code. See note ahead of Chapter 2 of this standard. [UPC 301.1] Pipe. PE pipe is plastic of 1/2 inch (12.7)
Note:	comply with this standard. The following sections of the Uniform Plumbing Code apply to PE gas piping: 218.0 Definition of PE			mm) or larger size. One-half inch (12.7 mm) pipe shall be SDR 9. Pipe sizes less than 3 inches (76 mm) shall be SDR 11. Pipes 3 inches (76 mm) and larger shall be SDR 11.5 or lower*.
	310.0 313.0 314.0 315.0	Workmanship Protection of Piping, Materials, and Structures Hangers and Supports	2.13	Tubing. PE tubing is plastic and shall be limited to the following: Tubing Size Inches (mm) SDR* 1/4 (6.4) 6 3/8 (9.5) 8 1/2 (12.7) 7 *Note: The lower the SDR number, the thicker the wall.
	316.2.3 Chapter 12 1204.3.2 1211.0 1211.1.7	Final Piping Inspection Gas Piping Installation Tracer Wire Liquified Petroleum Gas Facilities and Piping Materials:		
	1211.1.7 1213.0 Table 14-1 Pipe and T		2.1.4	Fittings. Heat fusion fittings shall be PE 2406, PE 3408, or other listed materials. Mechanical connectors for PE pipe and tubing and for transition fittings shall be approved compression type couplings or other special listed joints.
		ASTM D 2513	2.2	Markings
		Fittings: Copper Alloy ANSI B16.26 PE3408 PE2406 ASTM D 2513 Plastic Mechanical ASTM F 1924 Metallic Mechanical	2.2.1	Pipe and Tubing. Pipe and tubing markings shall be in accordance with ASTM D2513. [UPC 301.1.2]
			2.2.2	Fittings. Fitting markings shall be in accordance with ASTM D1924, ASTM D1948, ASTM D2513 or ASME B16.26. [UPC 301.1.2]
ABBREVIATIONS		ASTM F 1948 American National Standards Institute	2.2.3	Position of Markings. The identifying markings on pipe, tubing and fittings shall be visible for inspection without moving materials.
	ASTM	American Society for Testing	2.3	Protection of Piping
	IAPMO	and Materials International Association of Plumbing and Mechanical Officials	2.3.1	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,
	UPC	Uniform Plumbing Code published by IAPMO		etc.). Exposure to sunlight during normal construction periods is not harmful.