

SECTION 40 27 00.13 COPPER AND COPPER ALLOY PIPE, TUBING, AND FITTINGS	
Item	Description
General	Physical Characteristics: Copper pipe or tubing and fittings for gas or liquid service. Functional Characteristics: Service Flow Streams on Piping Schedule as shown on the Drawings. Performance Characteristics: Materials in contact with potable water shall conform to NSF 61 acceptance.
Pipe	Physical Characteristics: Red brass, seamless. Performance Characteristics: Standard wall thickness, conforming to ASTM B43.
Tubing	Physical Characteristics: Red brass, seamless. Performance Characteristics: Conforming to ASTM B88 as follows: Water (buried) Type K, soft or hard temper Water (exposed) Type L, hard drawn Domestic hot water Type L, hard drawn Refrigerant service Type L, hard drawn P-Trap priming service. Type L, soft temper
Fittings	Performance Characteristics: ASTM B75/B75M commercially pure wrought copper, socket joint, dimensions conforming to ASME B16.22.
Flanges	Performance Characteristics: Class 150, ASTM B75/B75M commercially pure wrought copper, socket joint, ASME B16.24 standard.
Bolting	Performance Characteristics: ASTM A307, carbon steel, Grade A hex head bolts, ASTM A563 Grade A hex head nuts and ASTM F436 hardened steel washers at nuts and bolt heads. Achieve 40 percent to 60 percent of bolt minimum yield stress.
Gaskets	Manufacturers and Products: Cranite. Or equal. Performance Characteristics: 1/16-inch thick nonasbestos compression type, full face.

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Solder	Performance Characteristics: Joints 2-1/2 Inch and Smaller: Wire solder (95 percent tin), conforming to ASTM B32 Alloy Grade Sn95. Do not use cored solder. Joints Larger Than 2-1/2 Inch: Wire solder, melt range approximately 440 degrees F to 660 degrees F, conforming to ASTM B32 Alloy Grade HB or HN. Do not use cored solder.

END OF SECTION