

2.2 STEEL TUBE AND FITTINGS, ABOVE GROUND

- A. Steel Pipe: ASTM A53/A53M, Schedule 40 (0.375 inch (10 mm), black.
1. Fittings: ASME B16.3, malleable iron or ASTM A234/A234M, forged steel welding type.
 2. Joints: Threaded for pipe 2 inch (50 mm) and smaller; welded for pipe 2-1/2 inches (65 mm) and larger.
- B. Steel Pipe: ASTM A53/A53M, Schedule 40 (0.375 inch (10 mm)), black, cut grooved ends.
1. Fittings: ASTM A395/A395M and ASTM A536 ductile iron, or ASTM A234/A234M carbon steel, grooved ends.
 2. Joints: Grooved mechanical couplings meeting ASTM F1476.
 - a. Manufacturers:
 - 1) Victaulic or preapproved equal.
 - b. Housing Clamps: ASTM A395/A395M and ASTM A536 ductile iron, enamel coated compatible with steel piping sizes.
 - c. Gasket: Elastomer composition for operating temperature range suitable for service.
 - d. Accessories: Zinc electroplated steel bolts, nuts, and washers, comply with ASTM A449.
 - e. Rigid: Coupling housings with offsetting, angle-pattern bolt pads shall be used to provide system rigidity and support and hanging in accordance with ANSI B31.1 and B31.9. Installation-Ready, for direct stab installation without field disassembly.
 - f. Flexible: Use in locations where vibration attenuation and stress relief are required.
 3. Fittings: Cold press mechanical joint fitting shall conform to material requirements of ASTM A420 or ASME B16.3 and performance criteria of IAPMO PS117. Sealing elements for press fittings shall be EPDM. Sealing elements shall be factory installed or an alternative supplied by fitting manufacturer.

3.10 PIPING SCHEDULE

Application	Piping	Fittings
Chilled Water 2-1/2" and Larger (Above Grade)	ASTM A53/A53M Steel Pipe	Forged Steel, Welded
		Victaulic Grooved Coupling
	Hard Copper Tube, Type L	Wrought Copper Soldered Joints ProPress (up to 4") Copper Pressure Seal Joints
Condenser Water Piping 2-1/2" (65mm) and Larger (Above Grade)	PVC, Schedule 80 ^{b,c}	Schedule 80, Solvent Welded