

# Mechanical Drawing: Board & CAD Techniques

## Chapter 16 Pipe Drawings

### Chapter Summaries

#### **Section 16.1 Pipe Systems**

- Pipe systems are made from various metals or plastic and are used for transporting liquids and gases or for structural purposes.
- Pipes are joined together using welded or adhesive connections or by means of screw fittings.
- Valves are used to regulate the flow of liquids or gases in pipe systems.

#### **Section 16.2 Creating Pipe Drawings**

- Single-line, or simplified, pipe drawings are more widely used for construction purposes, while double-line drawings are used for presentation purposes.
- Pipe drawings use either orthographic or pictorial (isometric) projection, and incorporate symbols rather than actual representations of components.
- Orthographic pipe drawings are best suited for pipe systems in which the pipes are positioned in one plane.
- Pictorial pipe drawings are used for pipe systems that position pipes in more than one plane.
- In CAD, 3D wireframe models are often used to create single-line isometric pipe drawings.