



» PROPER SIZING AND INSTALLATION FOR STEAM SYSTEM SAFETY VALVES

1. INTRODUCTION TO SAFETY VALVES

One of the most critical safety devices in a steam system is the safety valve. Safety valves protect personnel, equipment, and property from potentially dangerous high temperatures and forces caused by excessive steam pressure in the steam system.

Steam safety valves are required by codes, insurance, and corporate mandates. Therefore, it is important to have the safety valve properly sized and installed to meet all code requirements. A well-documented database and up-to-date records of all safety valves in the steam system is a standard for today's plant operation.

The steam safety valve database containing all relevant information about all safety devices that it can use for yearly inspection of the Section I and Section VIII (code) safety valves. The safety valve database should always be updated with the yearly information from inspections and changes based on plant standards, insurance company recommendations, and federal, state, or local government requirements.



Figure 1: Steam Line Safety Valve



The code that establishes the requirements for steam safety valves is written by the American Society of Mechanical Engineers (ASME). ASME, through its committees, has published and continues to update the Boiler and Pressure Vessel codes for safety valves. It is the responsibility of plant personnel—primarily the plant's steam team—to know which codes apply to the different parts of the steam system.

2. SIZING GUIDELINES FOR SAFETY VALVES

- The set point for the safety valve shall be at least 10% between the operating system pressure and the safety valve set pressure. This will prevent the safety valve from operating in the simmer mode, which the code does not allow.
- When considering a safety valve downstream of a steam pressure control valve, the total capacity of the safety valve at the set point must exceed the steam

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