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Chapter 2

PRESSURE DESIGN OF PIPING & PIPING COMPONENTS

Design Conditions

An essential part of every piping system design effort is the establishment of the design conditions for each process. Once they are established, these conditions become the basis of that system's design. The key components of the design conditions are the design pressure and the design temperature.

Design Pressure and Temperature

Design pressure is defined as the most severe sustained pressure which results in the greatest component thickness and the highest component pressure rating. It shall not be less than the pressure at the most severe condition of coincident internal or external pressure and maximum or minimum temperature expected during service [¶301.2].

Design temperature is defined as the sustained pipe metal temperature representing the most severe conditions of coincident pressure and temperature [¶301.3]. B31.3 provides guidance on how to determine the pipe metal temperature for hot or cold pipe in ¶301.3.2.

Designers must be aware that more than one design condition may exist in any single piping system. One design condition may establish the pipe wall thickness and another may establish the component rating, such as for flanges.

Once the design pressure and temperature have been established for a system, the question could be asked: Can these conditions ever be exceeded? The answer is yes, they can be exceeded. In the normal operation of a refinery or chemical plant, there is a need, on occasion, for catalyst regeneration, steam-out or other short term conditions that may cause temperature-pressure variations above design. Rather than base the design pressure and temperature on these short term operations, the Code provides conditions to permit these variations to occur without becoming the basis of design.

A review of ¶302.2.4, Allowances for Pressure and Temperature Variations, Metallic Piping, reveals these conditions for variations. Therein, the Code sets the first two allowable stresses for design:

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