

Table M.1a—Yield Strength Reduction Factors (SI)

Temperature (°C)	Minimum Specified Yield Strength (MPa)		
	< 310 MPa	From ≥ 310 to < 380 MPa	≥ 380 MPa
94	0.91	0.88	0.92
150	0.88	0.81	0.87
200	0.85	0.75	0.83
260	0.80	0.70	0.79

NOTE: Linear interpolation shall be applied for intermediate values.

Table M.1b—Yield Strength Reduction Factors (USC)

Temperature (°F)	Minimum Specified Yield Strength (lb/in. ²)		
	< 45,000 lb/in. ²	≥ 45,000 to < 55,000 lb/in. ²	≥ 55,000 lb/in. ²
201	0.91	0.88	0.92
300	0.88	0.81	0.87
400	0.85	0.75	0.83
500	0.80	0.70	0.79

NOTE: Linear interpolation shall be applied for intermediate values.

M.4 Tank Bottoms

M.4.1 Tanks with diameters exceeding 30 m (100 ft) shall have butt-welded annular bottom plates (see 5.1.5.6).

M.4.2 The following simplified procedure is offered as a recommended design practice for elevated-temperature tanks where significant temperature differences between the tank bottom and the lowest shell course are expected. The use of the procedure is not intended to be mandatory. It is recognized that other analytical procedures can be employed as well as that operating conditions may preclude the need for such a procedure.

Shell-to-bottom junctions in elevated-temperature tanks may be evaluated for liquid head and temperature cycles with the formulas, procedures, and exclusions given below. (See Conditions a and b in the note below, which exclude tanks from such analyses.)

NOTE: A cyclic design life evaluation need not be made if all the criteria of either of the following conditions are met.

- The design temperature difference (T) is less than or equal to 220 °C (400 °F), K is less than or equal to 2.0, and C is less than or equal to 0.5.
- A heated liquid head, in feet, greater than or equal to $0.3(D_t)^{0.5}$ is normally maintained in the tank, except for an occasional cool-down (about once a year) to ambient temperatures; T is less than or equal to 260 °C (500 °F); and K is less than or equal to 4.0. (For background information on the development of the stress formulas, design life criteria, and C and B factors, see G.G. Karcher, "Stresses at the Shell-to-Bottom Junction of Elevated-Temperature Tanks.")

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Karin Nielsen-Saines



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API Standards 620, 650, and 653 Interpretations--tank Construction and In-service Inspection, 1997 [Encyclopedia of Chemical Processing and Design](#) John J. McKetta Jr, 1995-11-14 Steam Reforming Operating Experience to Storage Tank Measurement Optical Method [Seismic Guidelines for Ports](#) Stuart D. Werner, 1998-01-01 Seismic Guidelines for Ports was prepared by the Ports Committee of the Technical Council on Lifeline Earthquake Engineering of the American Society of Civil Engineers a committee of experienced professionals for port authorities government consulting engineering firms and the academic community This volume includes lessons of experience from past earthquakes a summary of current state of knowledge and practice of risk reduction planning through design analysis and material components and guidelines for response and recovery at ports **Guidelines for Pressure Relief and Effluent Handling Systems** CCPS (Center for Chemical Process Safety), 2010-08-31 Current industry government and public emphasis on containment of hazardous materials makes it essential for each plant to reduce and control accidental releases to the atmosphere Guidelines for Pressure Relief and Effluent Handling Systems meets the need for information on selecting and sizing pressure relief devices and effluent handling systems that will maintain process integrity and avoid discharge of potentially harmful materials to the atmosphere With a CD ROM enclosed containing programs for calculating flow through relief devices effluent handling systems and associated piping the book offers an important collection of state of the art technology for safely relieving process equipment of such conditions as overpressure overtemperature and or runaway reactions It provides information for two phase and compressible gas flow to select and size pressure relief devices piping and effluent handling equipment such as gravity separators cyclones spargers and quench pools The book has an important collection of state of the art technology for safely relieving process equipment of conditions such as overpressure overtemperature and or run away reactions It provides information for two phase and compressible gas flow to select and size pressure relief devices piping and effluent handling equipment such as gravity separators cyclones spargers and quench pools Special Details CD files for this title can now be found by entering the ISBN 9780816904761 on [booksupport.wiley.com](#) [Code of Federal Regulations](#), 2004 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of with ancillaries [Pipeline safety regulations](#), 2005 [Encyclopedia of Chemical Processing and Design](#) John J. McKetta, William Aaron Cunningham, 1996 **Perry's Chemical Engineers' Handbook, 9th Edition** Don W. Green, Marylee Z. Southard, 2018-07-13 Up to Date Coverage of All Chemical Engineering Topics from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition this industry standard resource has equipped generations of engineers and chemists with vital information data and insights Thoroughly revised to reflect the latest technological advances and processes Perry's Chemical Engineers Handbook Ninth Edition provides unsurpassed coverage of every aspect of chemical engineering You will get comprehensive details on chemical processes reactor modeling biological processes

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Code of Federal Regulations, Title 49, Transportation, Pt. 178-199, Revised as of October 1 2011 Office of the Federal Register (U.S.) Staff,U S Office of the Federal Register,2012-02-22

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Above Ground Storage Tanks Philip E. Myers,1997-04-22 The one reference devoted exclusively to ASTs this book assembles the most critical information on the subject in a single convenient volume The result is an ideal tool for chemical environmental and civil engineers as well as management and government personnel and others concerned with the regulatory issues governing ASTs Section by section this complete reference thoroughly examines and clarifies various types of storage media and their applications fundamental environmental engineering concerns industrial codes and standards for ASTs AST design considerations the proper construction fabrication and erection of tanks and the often confusing requirements designed to keep ASTs environmentally sound

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Guidelines for Pressure Relief and Effluent Handling Systems American Institute of Chemical Engineers. Center for Chemical Process Safety,1998-03-15 Current industry government and public emphasis on containment of hazardous materials makes it essential for each plant to reduce and control accidental releases to the atmosphere Guidelines for

Pressure Relief and Effluent Handling Systems meets the need for information on selecting and sizing pressure relief devices and effluent handling systems that will maintain process integrity and avoid discharge of potentially harmful materials to the atmosphere. With a CD ROM enclosed containing programs for calculating flow through relief devices, effluent handling systems and associated piping, the book offers an important collection of state of the art technology for safely relieving process equipment of such conditions as overpressure, overtemperature and or runaway reactions. It provides information for two phase and compressible gas flow to select and size pressure relief devices, piping and effluent handling equipment such as gravity separators, cyclones, spargers and quench pools. The book has an important collection of state of the art technology for safely relieving process equipment of conditions such as overpressure, overtemperature and or run away reactions. It provides information for two phase and compressible gas flow to select and size pressure relief devices, piping and effluent handling equipment such as gravity separators, cyclones, spargers and quench pools. Special Details CD files for this title can now be found by entering the ISBN 9780816904761 on booksupport.wiley.com.

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