
API Standard 521

Pressure-relieving and Depressuring Systems

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This standard is applicable to pressure-relieving and vapor depressuring systems. Although intended for use primarily in oil refineries, it is also applicable to petrochemical facilities, gas plants, liquefied natural gas (LNG) facilities, and oil and gas production facilities. The information provided is designed to aid in the selection of the system that is most appropriate for the risks and circumstances involved in various installations.

This standard specifies requirements and gives guidelines for the following:

- examining the principal causes of overpressure;
- determining individual relieving rates;
- selecting and designing disposal systems, including such component parts as piping, vessels, flares, and vent stacks.

This standard does not apply to direct-fired steam boilers.

The portions of this standard dealing with flares and flare systems are an adjunct to API Standard 537, which addresses mechanical design, operation, and maintenance of flare equipment. It is important for all parties involved in the design and use of a flare system to have an effective means of communicating and preserving design information about the flare system. To this end, API has developed a set of flare datasheets, which can be found in API 537, Appendix E. The use of these datasheets is both recommended and encouraged as a concise, uniform means of recording and communicating design information.

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Overpressure Protection in the Process Industry Marc Hellemans,2022-01-17 Overpressure Protection in the Process Industry A Critical View provides a practical and pragmatic guidance for anyone dealing with overpressure protection in the process industry The book explains the background of complicated international codes and regulations offering a pragmatic and practical approach on how these codes can be interpreted for specific cases The book also gives a critical view on these codes and regulations and where they do or don t make sense along with the challenges in some instances including technical and practical argumentations Finally the book covers specific problem areas and sizing methods when using safety relief devices as overpressure protection such as how to handle installation backpressures blowdowns the 3% rule types of chatter and other destructive forces in relief devices Helps readers understand and apply codes and regulations in a pragmatic way Provides sizing guidance on most overpressure scenarios and how to approach them in a pragmatic way Creates awareness about the possible dangers of overpressure especially in aging plants and how modifications on the process can jeopardize the overpressure protection Addresses non regulated types of overpressure protection in a process plant such as the overpressure and vacuum protection of low pressure storage tanks and tank blanketing **Process**

Engineering and Design Using Visual Basic® Arun Datta,2013-09-20 Software tools are a great aid to process engineers but too much dependence on such tools can often lead to inappropriate and suboptimal designs Reliance on software is also a hindrance without a firm understanding of the principles underlying its operation since users are still responsible for devising the design In Process Engineering and Desi **Equipment and Components in the Oil and Gas Industry**

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particularly crucial to the oil and gas industry including on off valves control valves safety valves and special valves The book also details actuators sprinklers fire and gas detectors hoses and hose reels along with electrical components such as switches cables wires and cable glands Finally the book ends with a discussion of heating ventilation and air conditioning HVAC components This book will be of interest to mechanical and chemical engineers working in the oil and gas industry

Piping Materials Guide Peter Smith,2005-01-20 The only book of its kind on the market this book is the companion to our Valve Selection Handbook by the same author Together these two books form the most comprehensive work on piping and valves ever written for the process industries This book covers the entire piping process including the selection of piping materials according to the job the application of the materials and fitting trouble shooting techniques for corrosion control inspections for OSHA regulations and even the warehousing distributing and ordering of materials There are books on materials fitting OSHA regulations and so on but this is the only one stop shopping source for the piping engineer on piping materials Provides a one stop shopping source for the piping engineer on piping materials Covers the entire piping process Designed as an easy to access guide *The Comprehensive Valve Dictionary* Karan Sotoodeh,2025-09-10 This book is a pioneering reference work designed to address the complex terminology technical specifications and diverse applications of valves in industrial systems The Comprehensive Valve Dictionary is an authoritative and practical reference that demystifies the technical language surrounding industrial valves The dictionary provides detailed definitions of over a thousand valve related terms including valve types components materials standards testing methods and failure mechanisms In addition to traditional applications this dictionary places significant emphasis on valves used in renewable energy systems including those for hydrogen production hydropower carbon capture and storage CCS geothermal energy and wind power Moreover it explores the definitions and real world applications of cutting edge technologies such as smart valves condition monitoring digital twin technology and additive manufacturing It also includes cross references to relevant international standards e g API ASME ISO troubleshooting guides and operational insights By bridging gaps in understanding this resource will support professionals in making informed decisions improving system reliability and ensuring compliance with industry best practices This work is specifically tailored for engineers designers manufacturers and researchers working in oil and gas

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Publications, Programs & Services American Petroleum Institute, 2005 Guidelines for Design Solutions for Process Equipment Failures ,1998-08-15 Disk contains Failure scenario tables Oilfield Processing of Petroleum: Crude oil Francis S. Manning, Richard E. Thompson (Ph.D.), 1995 Covers process descriptions design method operating procedures and troubleshooting in great detail This text is the definitive source on its topic and contains numerous diagrams and appendices as well as case histories and review questions with numerical problems Hazardous Materials and Hazardous Waste Management Gayle Woodside, 1993-08-24 A complete treatment regarding all aspects of hazardous materials and hazardous

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Proceedings, Annual Convention Gas Processors Association,1993

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Industrial Hazard and Safety Handbook Ralph William King,John Magid,1979 Reference book relating to occupational safety and occupational health in the industrial sector of the UK covers common and special hazards explosion and fire control occupational medicine issues safety inspection and legal aspects ergonomics first aid intervention design for minimizing risks occupational accidents etc Illustrations references and statistical tables

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