

# API Standard 520, Part 1

## Sizing, Selection, and Installation of Pressure-relieving Devices

### Part I—Sizing and Selection

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This standard applies to the sizing and selection of pressure-relief devices used in refineries, chemical facilities, and related industries for equipment that has a maximum allowable working pressure (MAWP) of 15 psig (103 kPa<sub>g</sub>) or greater. The pressure-relief devices covered in this standard are intended to protect unfired pressure vessels and related equipment against overpressure from operating and fire contingencies.

This standard includes basic definitions and information about the operational characteristics and applications of various pressure-relief devices. It also includes sizing procedures and methods based on steady state flow of Newtonian fluids.

Pressure-relief devices protect a vessel against overpressure only; they do not protect against structural failure when the vessel is exposed to extremely high temperatures such as during a fire. See API 521 for information about appropriate ways of reducing pressure and restricting heat input.

Atmospheric and low-pressure storage tanks covered in API 2000 and pressure vessels used for the transportation of products in bulk or shipping containers are not within the scope of this standard.

The rules for overpressure protection of fired vessels are provided in ASME BPVC, Section I and are not within the scope of this standard.

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**Alireza Bahadori**



## **Api Standard 520 Part 1 American Petroleum Institute:**

Managed Pressure Drilling: Fundamentals, Methods and Applications Eric van Oort, 2025-05-30 Managed Pressure Drilling Fundamentals Methods and Applications First Edition provides the basic infrastructure and extended support necessary for drilling engineers to apply managed pressure drilling to their operations Enhanced with multiple new chapters and contributions from both academic and corporate authors this reference provides engineers with the basic processes and equipment behind MPD Other sections explain the latest technology and real world case studies such as how to optimize the managed pressure drilling system how to choose the best well candidate for MPD and how to lower costs for land based operations Packed with a glossary list of standards and a well classification system this book is a flagship reference for drilling engineers on how to understand basics and advances in this fast paced area of oil and gas technology Demonstrates the value in safety improvement time and cost savings sustainability and reduced carbon footprint that adoption of MPD brings to well construction Delivers a fundamental collection on managed pressure drilling equipment methods procedures best practices and field cases Presents a balance of information that ranges from historical details and background theory to practical application Includes multiple critical chapters dealing with all major MPD variants MPD event detection control systems and automation how to plan and risk MPD where MPD fits in the well delivery process and its future outlook

**Guidelines for Pressure Relief and Effluent Handling Systems** CCPS (Center for Chemical Process Safety), 2017-04-17 Providing in depth guidance on how to design and rate emergency pressure relief systems Guidelines for Pressure Relief and Effluent Handling Systems incorporates the current best designs from the Design Institute for Emergency Relief Systems as well as American Petroleum Institute API standards Presenting a methodology that helps properly size all the components in a pressure relief system the book includes software with the CCFLOW suite of design tools and the new Superchems for DIERS Lite software making this an essential resource for engineers designing chemical plants refineries and similar facilities Access to Software Access the Guidelines for Pressure Relief and Effluent Handling Software and documents using a web browser at <http://www.aiche.org/ccps/PRTools> Each folder will have a readme file and installation instructions for the program After downloading SuperChemSTM for DIERS Lite the purchaser of this book must contact the AIChE Customer Service with the numeric code supplied within the book The purchaser will then be supplied with a license code to be able to install and run SuperChemSTM for DIERS Lite Only one license per purchaser will be issued Guidelines for Siting and Layout of Facilities CCPS (Center for Chemical Process Safety), 2018-03-29 This book has been written to address many of the developments since the 1st Edition which have improved how companies survey and select new sites evaluate acquisitions or expand their existing facilities This book updates the appendices containing both the recommended separation distances and the checklists to help the teams obtain the information they need when locating the facility within a community when arranging the processes within the facility and when arranging the equipment within the process units

*Handbook of Fire and Explosion Protection Engineering Principles* Dennis P. Nolan, 2010-12-15 Handbook of Fire and Explosion Protection Engineering Principles for Oil Gas Chemical and Related Facilities is a general engineering handbook that provides an overview for understanding problems of fire and explosion at oil gas and chemical facilities This handbook offers information about current safety management practices and technical engineering improvements It also provides practical knowledge about the effects of hydrocarbon fires and explosions and their prevention mitigation principals and methodologies This handbook offers an overview of oil and gas facilities and it presents insights into the philosophy of protection principles Properties of hydrocarbons as well as the characteristics of its releases fires and explosions are also provided in this handbook The book includes chapters about fire and explosion resistant systems fire and gas detection systems alarm systems and methods of fire suppression The handbook ends with a discussion about human factors and ergonomic considerations including human attitude field devices noise control panic and security People involved with fire and explosion prevention such as engineers and designers will find this book invaluable A unique practical guide to preventing fires and explosions at oil and gas facilities based on the author s extensive experience in the industry An essential reference tool for engineers designers and others facing fire protection issues Based on the latest NFPA standards and interpretations

*Instrument and Automation Engineers' Handbook* Bela G. Liptak, Kriszta Venczel, 2022-08-31 The Instrument and Automation Engineers Handbook IAEH is the Number 1 process automation handbook in the world The two volumes in this greatly expanded Fifth Edition deal with measurement devices and analyzers Volume one Measurement and Safety covers safety sensors and the detectors of physical properties while volume two Analysis and Analysis describes the measurement of such analytical properties as composition Complete with 245 alphabetized chapters and a thorough index for quick access to specific information the IAEH Fifth Edition is a must have reference for instrument and automation engineers working in the chemical oil gas pharmaceutical pollution energy plastics paper wastewater food etc industries

**Chemical Engineering Design** Gavin Towler, Ray Sinnott, 2021-07-14 Chemical Engineering Design Principles Practice and Economics of Plant and Process Design is one of the best known and most widely adopted texts available for students of chemical engineering The text deals with the application of chemical engineering principles to the design of chemical processes and equipment The third edition retains its hallmark features of scope clarity and practical emphasis while providing the latest US codes and standards including API ASME and ISA design codes and ANSI standards as well as coverage of the latest aspects of process design operations safety loss prevention equipment selection and more The text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors Provides students with a text of unmatched relevance for chemical process and plant design courses and for the final year capstone design course Written by practicing design engineers with extensive undergraduate teaching experience Contains more than 100 typical

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Measurement and Safety Béla G. Lipták, Kriszta Venczel, 2016-11-25 The Instrument and Automation Engineers Handbook IAEH is the 1 process automation handbook in the world Volume one of the Fifth Edition Measurement and Safety covers

safety sensors and the detectors of physical properties Measurement and Safety is an invaluable resource that Describes the detectors used in the measurement of process variables Offers application and method specific guidance for choosing the best measurement device Provides tables of detector capabilities and other practical information at a glance Contains detailed descriptions of domestic and overseas products their features capabilities and suppliers including suppliers web addresses Complete with 163 alphabetized chapters and a thorough index for quick access to specific information Measurement and Safety is a must have reference for instrument and automation engineers working in the chemical oil gas pharmaceutical pollution energy plastics paper wastewater food etc industries About the eBook The most important new feature of the IAEH Fifth Edition is its availability as an eBook The eBook provides the same content as the print edition with the addition of thousands of web addresses so that readers can reach suppliers or reference books and articles on the hundreds of topics covered in the handbook This feature includes a complete bidders list that allows readers to issue their specifications for competitive bids from any or all potential product suppliers

**Guidelines for Engineering Design for Process Safety** CCPS (Center for Chemical Process Safety),2012-11-07 This updated version of one of the most popular and widely used CCPS books provides plant design engineers facility operators and safety professionals with key information on selected topics of interest The book focuses on process safety issues in the design of chemical petrochemical and hydrocarbon processing facilities It discusses how to select designs that can prevent or mitigate the release of flammable or toxic materials which could lead to a fire explosion or environmental damage Key areas to be enhanced in the new edition include inherently safer design specifically concepts for design of inherently safer unit operations and Safety Instrumented Systems and Layer of Protection Analysis This book also provides an extensive bibliography to related publications and topic specific information as well as key information on failure modes and potential design solutions

**Handbook of Natural Gas Transmission and Processing** Saeid Mokhatab,William A. Poe,John Y. Mak,2018-10-26 Written by an internationally recognized team of natural gas industry experts the fourth edition of Handbook of Natural Gas Transmission and Processing is a unique well researched and comprehensive work on the design and operation aspects of natural gas transmission and processing Six new chapters have been added to include detailed discussion of the thermodynamic and energy efficiency of relevant processes and recent developments in treating super rich gas high CO<sub>2</sub> content gas and high nitrogen content gas with other contaminants The new material describes technologies for processing today s unconventional gases providing a fresh approach in solving today s gas processing challenges including greenhouse gas emissions The updated edition is an excellent platform for gas processors and educators to understand the basic principles and innovative designs necessary to meet today s environmental and sustainability requirement while delivering acceptable project economics Covers all technical and operational aspects of natural gas transmission and processing Provides pivotal updates on the latest technologies applications and solutions Helps to understand today s natural gas resources and the best gas processing

technologies Offers design optimization and advice on the design and operation of gas plants *Guidelines for Design Solutions for Process Equipment Failures* CCPS (Center for Chemical Process Safety), 2010-09-17 While there is no perfect solution or absolute zero risk engineering design can significantly reduce risk potential in the CPI In *Guidelines for Design Solutions to Process Equipment Failures* industry experts offer their broad experience in identifying numerous solutions to the more common process equipment failures including inherent safer passive active and procedural solutions in decreasing order of robustness and reliability The book challenges the engineer to identify opportunities for inherent and passive safety features early and use a risk based approach to process safety systems specification The book is organized into three basic sections 1 a technique for making risk based design decisions 2 potential failure scenarios for 10 major processing equipment categories and 3 two worked examples showing how the techniques can be applied The equipment categories covered are vessels reactors mass transfer equipment fluid transfer equipment solids fluid separators solids handling and processing equipment and piping and piping components Special Details Hardcover book plus 3 5 diskette for use in any word processing program with design solutions for use in PHAs *Guidelines for Process Hazards Analysis (PHA, HAZOP), Hazards Identification, and Risk Analysis* Nigel Hyatt, 2018-10-03 This unique manual is a comprehensive easy to read overview of hazards analysis as it applies to the process and allied industries The book begins by building a background in the technical definition of risk past industrial incidents and their impacts ensuing legislation and the language and terms of the risk field It addresses the different types of structured analytical techniques for conducting Process Hazards Analyses PHA provides a What If checklist and shows how to organize and set up PHA sessions Other topics include layout and siting considerations Failure Modes and Effect Analysis FMEA human factors loss of containment and PHA team leadership issues

**Instrument Engineers' Handbook, Volume One** Bela G. Liptak, 2003-06-27 Unsurpassed in its coverage usability and authority since its first publication in 1969 the three volume Instrument Engineers Handbook continues to be the premier reference for instrument engineers around the world It helps users select and implement hundreds of measurement and control instruments and analytical devices and design the most cost effective process control systems that optimize production and maximize safety Now entering its fourth edition Volume 1 Process Measurement and Analysis is fully updated with increased emphasis on installation and maintenance consideration Its coverage is now fully globalized with product descriptions from manufacturers around the world B la G Lipt k speaks on Post Oil Energy Technology on the AT T Tech Channel *Natural Gas Processing* Alireza Bahadori, 2014-05-05 Natural gas is considered the dominant worldwide bridge between fossil fuels of today and future resources of tomorrow Thanks to the recent shale boom in North America natural gas is in a surplus and quickly becoming a major international commodity Stay current with conventional and now unconventional gas standards and procedures with *Natural Gas Processing Technology and Engineering Design* Covering the entire natural gas process Bahadori s must have handbook provides everything you need to know about natural gas including

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**Major Hazard Control** International Labour Organisation, International Labour Office, 1988 A manual aimed at assisting in major hazards control It is designed for countries who wish to develop a programme for major hazards control as well as those with systems already in place

**Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1971

**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

*Petroleum Refining Design and Applications Handbook, Volume 5* A. Kayode Coker, 2023-06-22

**PETROLEUM REFINING** With no new refineries having been built in decades companies continue to build onto or reverse engineer and re tool existing refineries With so many changes in the last few years alone books like this are very much in need There is truly a renaissance for chemical and process engineering going on right now across multiple industries This fifth and final volume in the Petroleum Refining Design and Applications Handbook set this book continues the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Besides the list below this groundbreaking new volume describes blending of products from the refinery applying the ternary diagrams and classifications of crude oils flash point blending pour point blending aniline point blending smoke point and viscosity blending cetane and diesel indices The volume further reviews refinery operational cost cost allocation of actual usage project and economic evaluation involving cost estimation cash flow involving return on investment net present values discounted cash flow rate of return net present values payback period inflation and sensitivity analysis and so on It reviews global effects on the refining economy carbon tax carbon foot print global warming potential carbon dioxide equivalent carbon credit carbon offset carbon price and so on It reviews sustainability in petroleum refining and alternative fuels biofuels and so on impact of the overall greenhouse effects carbon capture and storage in refineries process intensification in biodiesel biofuel from green diesel acid gas removal and emerging technologies carbon capture and storage gas heated reformer unit pressure swing adsorption process steam methane reforming for fuel cells grey blue and green hydrogen production new technologies for carbon capture and storage carbon



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