

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) 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 B31.3, Section I and are not within the scope of this standard.

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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 An Applied Guide to Process and Plant Design Sean Moran, 2019-06-12 An Applied Guide to Process and Plant Design 2nd edition is a guide to process plant design for both students and professional engineers The book covers plant layout and the use of spreadsheet programs and key drawings produced by professional engineers as aids to design subjects that are usually learned on the job rather than in education You will learn how to produce smarter plant design through the use of computer tools including Excel and AutoCAD What If Analysis statistical tools and Visual Basic for more complex problems The book also includes a wealth of selection tables covering the key aspects of professional plant design which engineering students and early career engineers tend to find most challenging Professor Moran draws on over 20 years experience in process design to create an essential foundational book ideal for those who are new to process design compliant with both professional practice and the IChemE degree accreditation guidelines Includes new and expanded content including illustrative case studies and practical examples Explains how to deliver a process design that meets both business and safety criteria Covers plant layout and the use of spreadsheet programs and key drawings as aids to design Includes a comprehensive set of selection tables covering aspects of professional plant design which early career designers find most challenging 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 Fire Protection in Chemical, Petrochemical, and Hydrocarbon Processing Facilities* CCPS (Center for Chemical Process Safety), 2010-08-13 While there are many resources available on fire protection and prevention in chemical petrochemical and petroleum plants this is the first book that pulls them all together in one comprehensive resource This book provides the tools to develop implement and integrate a fire protection program into a company or facility's Risk Management System This definitive volume is a must read for loss prevention managers site managers project

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Guidelines for Engineering Design for Process Safety CCPS (Center for Chemical Process Safety), 2010-10-12 Inherently safer plants begin with the initial design Here is where integrity and reliability can be built in at the lowest cost and with maximum effectiveness This 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 All engineers on the design team the process hazard analysis team and those who make basic decisions on plant design will benefit from its comprehensive coverage its organization and the extensive references to literature codes and standards that accompany each chapter

Petroleum Refining Design and Applications Handbook, Volume 5 A. Kayode Coker, 2023-07-13

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 footprint 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 clean process design refinery of the future refining and petrochemical industry characteristics The text is packed with Excel spreadsheet calculations and Honeywell UniSim Design software in some examples and it includes an invaluable glossary of petroleum and petrochemical technical terminologies Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without Written by one of the world's foremost authorities this book sets the standard for the industry and is an integral part of the petroleum refining renaissance

It is truly a must have for any practicing engineer or student in this area *Chemical Process Engineering, Volume 2 A*. Kayode Coker, Rahmat Sotudeh-Gharebagh, 2022-06-20 CHEMICAL PROCESS ENGINEERING Written by one of the most prolific and respected chemical engineers in the world and his co author also a well known and respected engineer this two volume set is the new standard in the industry offering engineers and students alike the most up to date comprehensive and state of the art coverage of processes and best practices in the field today This new two volume set explores and describes integrating new tools for engineering education and practice for better utilization of the existing knowledge on process design Useful not only for students university professors and practitioners especially process chemical mechanical and metallurgical engineers it is also a valuable reference for other engineers consultants technicians and scientists concerned about various aspects of industrial design The text can be considered as complementary to process design for senior and graduate students as well as a hands on reference work or refresher for engineers at entry level The contents of the book can also be taught in intensive workshops in the oil gas petrochemical biochemical and process industries The book provides a detailed description and hands on experience on process design in chemical engineering and it is an integrated text that focuses on practical design with new tools such as Microsoft Excel spreadsheets and UniSim simulation software Written by two of the industry s most trustworthy and well known authors this book is the new standard in chemical biochemical pharmaceutical petrochemical and petroleum refining Covering design analysis simulation integration and perhaps most importantly the practical application of Microsoft Excel UniSim software this is the most comprehensive and up to date coverage of all of the latest developments in the industry It is a must have for any engineer or student s library **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 **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

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