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Piping Calculators

Calculations are per ASME B31.1 Power Piping, B31.3 Process Piping, B31.4 Pipeline Systems for Liquids, B31.5 Refrigeration Piping, and Miscellaneous.

[Descriptions](#) / [Examples](#)

Examples below show only small portions of the main files. The PipingOffice calculators are compatible with Microsoft Excel-97 thru Excel-2007. Files were created using Microsoft Windows 98 and XP.

You will not need much prior Excel experience. These tools are user-friendly and may improve your understanding of the Piping Codes.

A Menu file allows the user to choose and open each calculator by title and subject. [example_1st_Menu](#) [example_2nd_Menu](#) [example_B31.3_Menu](#)

Piping Simplified
[Pipe Required Thicknesses \(PDF\)](#): The calculations are per ASME B31.3 Process Piping Code. There are over 100 materials to choose from. Dimensional data are retrieved by clicking dropdowns. All common ASME standard NPS and DN sizes and thicknesses are included.

Threaded pipe is included. So is tubing and any non-standard size or thickness. Pipe dimensions are chosen for either US Customary or Metric units.

Flange ratings per B16.5 are chosen, or can be overridden, for design pressure input.

Similar files for calculating required thicknesses are included per ASME B31.1 Power Piping, ASME B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids, and ASME B31.5 Refrigeration and Heat Transfer Components. (examples not shown).

[Pipe Allowable Pressures](#): This example is per ASME B31.3 Process Piping Code. There are over 100 pipe and tubing materials to choose from. Dimensional data are retrieved from a shared data file. All common ASME standard NPS and DN sizes and thicknesses are included.

Threaded pipe is included. So is tubing. Pipe dimensions are chosen for either US Customary or Metric units.

Pipingoffice Piping Calculators

Donald C. Rennels, Hobart M. Hudson



Pipingoffice Piping Calculators:

Handbook of Industrial Pipework Engineering Ernest Holmes,1974 [Computer-aided Process Plant Design](#)
Michael E. Leesley,1982 [Title List of Documents Made Publicly Available](#) U.S. Nuclear Regulatory Commission,1980

CPM in Construction Management James Jerome O'Brien,1971 [American Lumberman](#) ,1923 **Utility Corporations** United States. Federal Trade Commission,1934 **Piping and Pipeline Calculations Manual** Philip Ellenberger,2014-01-22 Piping and Pipeline Calculations Manual Second Edition provides engineers and designers with a quick reference guide to calculations codes and standards applicable to piping systems The book considers in one handy reference the multitude of pipes flanges supports gaskets bolts valves strainers flexibles and expansion joints that make up these often complex systems It uses hundreds of calculations and examples based on the author s 40 years of experiences as both an engineer and instructor Each example demonstrates how the code and standard has been correctly and incorrectly applied Aside from advising on the intent of codes and standards the book provides advice on compliance Readers will come away with a clear understanding of how piping systems fail and what the code requires the designer manufacturer fabricator supplier erector examiner inspector and owner to do to prevent such failures The book enhances participants understanding and application of the spirit of the code or standard and form a plan for compliance The book covers American Water Works Association standards where they are applicable Updates to major codes and standards such as ASME B31 1 and B31 12 New methods for calculating stress intensification factor SIF and seismic activities Risk based analysis based on API 579 and B31 G Covers the Pipeline Safety Act and the creation of PhMSA [Piping Calculations Manual](#) Shashi Menon,2004-12-31 This on the job resource is packed with all the formulas calculations and practical tips necessary to smoothly move gas or liquids through pipes assess the feasibility of improving existing pipeline performance or design new systems Contents Water Systems Piping Fire Protection Piping Systems Steam Systems Piping Building Services Piping Oil Systems Piping Gas Systems Piping Process Systems Piping Cryogenic Systems Piping Refrigeration Systems Piping Hazardous Piping Systems Slurry and Sludge Systems Piping Wastewater and Stormwater Piping Plumbing and Piping Systems Ash Handling Piping Systems Compressed Air Piping Systems Compressed Gases and Vacuum Piping Systems Fuel Gas Distribution Piping Systems **Calculator Programs for Pipe Stress Engineering** Kenneth Scott Morgan,1986 A comprehensive collection of programs for solving a wide variety of stress problems using both the TI 59 and HP 41CV calculators Each program is prefaced with a description of the problem to be solved the nomenclature code restrictions and program limitations Solutions are explained analytically and then followed by the complete program listing documentation and checklists Topics include calculations for pipewall thickness pressure vessel analysis reinforcement pads allowable span vibration stress and two anchor piping systems [Threaded Piping](#) Gustavo Cinca,2023-12-26 Threaded Piping Carbon Steel Threaded Piping Calculation of Man Hours with Examples New Book edition In this book you will find precise information about the different

types of carbon steel threaded joints used in industrial and domestic installations The first part of the book details common thread profiles used in pipes the types of standardized fittings and hand and power tools used at the construction site to perform threaded piping The tables are then reproduced which record the man hours required to complete the threaded piping assembly tasks when handheld tools are used The tables in this book are those used by the author throughout his career Examples Finally two application examples are presented where mounting times for threaded pipes are calculated

Piping and Pipeline Calculations Manual J. Phillip Ellenberger, 2010 The integrity of a piping system depends on the considerations and principles used in design construction and maintenance of the system Piping systems are made of many components such as pipes flanges supports gaskets bolts valves strainers flexibles and expansion joints These components can be made in a variety of materials in different types and sizes and may be manufactured to common national standards or according a manufacturers proprietary item This book provides engineers and designers with a quick reference guide to the calculations codes and standards The lack of commentary or historical perspective regarding the codes and standards requirements for piping design and construction is an obstacle to the designer manufacturer fabricator supplier erector examiner inspector and owner who want to provide a safe and economical piping system An intensive manual this book will utilize hundreds of calculation and examples based on of 40 years of personal experiences of the author as both an engineer and instructor Each example demonstrates how the code and standard has been correctly and incorrectly applied This book is a no nonsense guide to the principle intentions of the codes or standards and provides advice on compliance After using this book the reader should come away with a clear understanding of how piping systems fail and what the code requires the designer manufacturer fabricator supplier erector examiner inspector and owner to do to prevent such failures The focus of the book is to enhance participants understanding and application of the spirit of the code or standard and form a plan for compliance The book is enhanced by a multitude of calculations to assist in problem solving directly applying the rules and equations for specific design and operating conditions to illustrate correct applications Each calculation is based on a specific code The major codes covered in the book are American Society of Mechanical Engineers B31 3 2002 Process Piping B31 8 2003 Gas Transmission and Distribution Piping Systems B31 8S 2001 2002 Managing System Integrity of Gas Pipelines B31 4 2002 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids B16 34 2004 Valves Flanged Threaded and Welding End American Petroleum Institute API SPEC 6D Specification for Pipeline Valves API 526 Flanged Steel Pressure Relief Valves API 527 Seat Tightness of Pressure Relief Valves R 2002 ANSI API STD 594 Check Valves Flanged Lug Wafer and Butt welding API 598 Valve Inspection and Testing The book covers American Water Works Association standards where they are applicable Utilizes hundreds of calculation and examples Guide to the principle intentions of the codes Easy to follow advice on code compliance Directly applies equations for specific design Design of Piping Systems Kellogg Company, 1956 **Plumber's and Pipe Fitter's Calculations Manual** Roger Dodge Woodson, 1999 Get results almost

instantly without putting pencil to paper or fiddling with a calculator Packed with charts and tables that let you simply look up the answers you need this handy new tool for plumbers and pipe fitters gives you a ready source of commonly used calculations formulas and best of all solutions *Process Piping* C. Becht,2004 Fully updated for the 2004 edition of the ASME B31.3 Code this second edition provides background information historical perspective and expert commentary on the ASME B31.3 Code requirements for process piping design and construction It provides the most complete coverage of the Code that is available today and is packed with additional information useful to those responsible for the design and mechanical integrity of process piping The author is a long serving member and present chairman of the ASME B31.3 Process Piping Code Committee The 2004 edition of ASME B31.3 contains significant technical changes such as addition of weld joint strength reduction factors in the creep regime alternative flexibility analysis rules alternative rules for occasional loads at elevated temperatures changes to the factors for higher and lower cycles among others The book describes these new rules and the thinking behind them Dr Becht explains the principal intentions of the Code covering the content of each of the Code's chapters Book inserts cover special topics such as calculation of refractory lined pipe wall temperature spring design design for vibration welding processes bonding processes and expansion joint pressure thrust Appendices in the book include useful information for pressure design and flexibility analysis as well as guidelines for computer flexibility analysis and design of piping systems with expansion joints *Metal Industrial Piping. Design and Calculation* British Standards Institute Staff,1912-08-31 Pipework systems Industrial pipework systems Pipes Fluid equipment Metals Design calculations Design Mathematical calculations Pipe supports **Handbook of Piping Design** G. K. Sahu,2009 **Plumber's and Pipe Fitter's Calculations Manual** R. Dodge Woodson,2005-05-18 Here are portable quick look up answers to the most common math problems faced by plumbers pipelayers pipefitters and steamfitters This time saving reference allows users to get results instantly without putting pencil to paper or fiddling with a calculator Job simplifying Fast Code Facts and Sensible Shortcut boxes Packed with calculations formulas charts and tables NEW CHAPTER on estimating take offs Great for designing or estimating a project *Piping Systems Manual* Brian Silowash,2009-10-05 In depth Details on Piping Systems Filled with examples drawn from years of design and field experience this practical guide offers comprehensive information on piping installation repair and rehabilitation All of the latest codes standards and specifications are included Piping Systems Manual is a hands on design and engineering resource that explains the reasons behind the designs You will get full coverage of materials components calculations specifications safety and much more Hundreds of detailed illustrations make it easy to understand the best practices presented in the book Piping Systems Manual covers ASME B31 piping codes Specifications and standards Materials of construction Fittings Valves and appurtenances Pipe supports Drafting practice Pressure drop calculations Piping project anatomy Field work and start up What goes wrong Special services Infrastructure Strategies for remote locations *Piping Stress Calculations Simplified* Siegfried Werner Spielvogel,1943 **Pipe Flow**

Donald C. Rennels, Hobart M. Hudson, 2012-04-02 Pipe Flow provides the information required to design and analyze the piping systems needed to support a broad range of industrial operations distribution systems and power plants Throughout the book the authors demonstrate how to accurately predict and manage pressure loss while working with a variety of piping systems and piping components The book draws together and reviews the growing body of experimental and theoretical research including important loss coefficient data for a wide selection of piping components Experimental test data and published formulas are examined integrated and organized into broadly applicable equations The results are also presented in straightforward tables and diagrams Sample problems and their solution are provided throughout the book demonstrating how core concepts are applied in practice In addition references and further reading sections enable the readers to explore all the topics in greater depth With its clear explanations Pipe Flow is recommended as a textbook for engineering students and as a reference for professional engineers who need to design operate and troubleshoot piping systems The book employs the English gravitational system as well as the International System or SI

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