



Pressure Vessel Material Selection Guide

Service	Design T ₁	Temp. °C	Material	Plate	Pipe	Forging	Fittings	Pressure Rating	Structural Bolts, Nuts, Washers
Cryogenic Service	-425	-254	Stainless Steel (High Alloy)	SA 340 types 304, 304L, 347, 316, 316L	SA 312 types 304, 304L, 347, 316, 316L	SA 382 Gr. A F 304, F 304L, F 347, 316, 316L	SA 409 types 304, 304L, 347, 316, 316L	Bolts: SA 320 Gr. B8 strain hardened Nuts: SA 394 Gr. B (15 SA 310)	
	-320	-196	Stainless Steel 9 Nickel (High Alloy)	SA 340 types 304, 304L, 316, 316L SA 353	SA 312 types 304, 304L, 316, 316L SA 318 Gr. B	SA 382 Gr. A F 304, F 304L, F 316 SA 322	SA 409 WPL8		
	-150	-101	3.5 Nickel (Sulfur Alloy)	SA 203 Gr. 3 or 8	SA 303 Gr. 3	SA 350 Gr. L/F3	SA 420 WPL3		Same as pressure parts
	-76	-60	3.5 Nickel (Sulfur Alloy)	SA 203 Gr. A or B	SA 303 Gr. 3	SA 350 Gr. L/F3		Bolts: SA 320 Gr. 17 Nuts: SA 394 Gr. 8	
Low Temperatures	-51	-40	3.5 Nickel (Sulfur Alloy)						
	-50	-40		SA 318 all grades impact tested [2]	SA 318 Gr. 1		SA 420 WPL6		
	-21	-29		SA 318 all grades over 1 in. thick impact tested		SA 350 Gr. L/F3 or L/F3			
	-20	-29		SA 318 all grades over 2 in. thick impact tested	SA 32 seamless or SA 306				SA 307 Gr. B SA 36 or SA 325
Intermediate Temperatures	4	-14	Carbon steel (Sulfur Alloy)	SA 318 all grades over 2 in. thick impact tested					
	5	-15		SA 203 Gr. C, max. thick: 5/4 in. SA 318 Gr. 15, 40, 45, max. thick: 1.5 in. SA 318 all grades all thicknesses			SA 214 WPL9		
	32	0		SA 203 Gr. C, max. thick: 5/4 in. SA 318 Gr. 15, 40, 45, max. thick: 1.5 in. SA 318 all grades all thicknesses SA 304 Gr. B all thicknesses	SA 32 seamless SA 304 SA 325 PL	SA 382 Gr. 1 or B SA 300 Gr. 1 or B		Bolts: SA 318 Gr. B7 Nuts: SA 394 Gr. 24	
	75	423							
Elevated Temperatures	75	423	C - 0.5 Mn (Sulfur Alloy)	SA 304 Gr. B or C	SA 315 PL	SA 382 Gr. PL	SA 214 WPL		
	875	468							
	875	469	1 Cr - 0.5 Mn 1.25 Cr - 0.5 Mn (Sulfur Alloy)	SA 387 Gr. 12-CL 1 SA 387 Gr. 12-CL 2	SA 315 PL2 SA 315 PL1	SA 382 Gr. PL2 SA 382 Gr. PL1	SA 214 WPL2 SA 214 WPL1		
	1000	538							
	1005	538	2.25 Cr - 1 Mn (Sulfur Alloy)	SA 387 Gr. 22-CL 1 SA 387 Gr. 22	SA 315 PL2	SA 382 Gr. PL2	SA 214 WPL2	Bolts: SA 318 Gr. B8 Nuts: SA 394 Gr. 3	Same as pressure parts
	1100	593							
	1155	584	Stainless Steel (High Alloy)	SA 200 types 304, 316, 321, 347 347 preferred	SA 312 types 304L, 316L, 321L, 347L SA 321	SA 382 Gr. A 304L, 316L, 321L, 347L SA 325	SA 409 types 347L SA 366	Bolts: SA 318 Gr. B8 Nuts: SA 394 Gr. B	
	1300	814	Nickel (Nickel Based Alloy)	SB 424					
More	1305	814	Stainless Steel (High Alloy)	Type 316 Stainless					
	More	More	Inconel (Nickel Based Alloy)	SB 443	SB 444	SB 444	SB 366		

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2. Moss, Dennis R. Pressure Vessel Design Manual, Third Edition, Elsevier, 2004.

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CADArtifex, Sandeep Dogra



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Valve Selection Handbook Peter Smith, R. W. Zappe, 2004-01-24 Valves are the components in a fluid flow or pressure system that regulate either the flow or the pressure of the fluid. They are used extensively in the process industries especially petrochemical. Though there are only four basic types of valves, there is an enormous number of different kinds of valves within each category, each one used for a specific purpose. No other book on the market analyzes the use, construction, and selection of valves in such a comprehensive manner. Covers new environmentally conscious equipment and practices the most important hot button issue in the petrochemical industry today. Details new generations of valves for offshore projects, the oil industry's fastest growing segment. Includes numerous new products that have never before been written about in the mainstream literature.

Standard Handbook of Chains American Chain Association, 2005-09-20 Since its founding, the American Chain Association (ACA) has set the standard of excellence in developing the chain industry and enhancing the benefit to customers. The first edition of *Chains for Power Transmission and Material Handling* served as the keystone reference to the field for more than twenty years. Fully updated with the latest developments.

Handbook of Engineering Practice of Materials and Corrosion Jung-Chul (Thomas) Eun, 2020-09-04 This handbook is an in-depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries. The book covers materials, corrosion, welding, heat treatment, coating, test and inspection, and mechanical design and integrity. A central focus is placed on industrial requirements including codes, standards, regulations, and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility. The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry-tested best practices, rationales, and case studies.

Handbook of Materials Selection Myer Kutz, 2002-07-22 An innovative resource for materials properties, their evaluation, and industrial applications. The Handbook of Materials Selection provides information and insight that can be employed in any discipline or industry to exploit the full range of materials in use today: metals, plastics, ceramics, and composites. This comprehensive organization of the materials selection process includes analytical approaches to materials selection and extensive information about materials available in the marketplace, sources of properties data, procurement and data management, properties testing procedures, and equipment analysis of failure modes, manufacturing processes, and assembly techniques and applications. Throughout the handbook, an international roster of contributors with a broad range of experience conveys practical knowledge about materials and illustrates in detail how they are used in a wide variety of industries. With more than 100 photographs of equipment and applications, as well as hundreds of graphs, charts, and tables, the Handbook of Materials Selection is a valuable reference for practicing engineers and designers, procurement and data managers, as well as teachers and students.

Equipment and Components in the Oil and Gas Industry Volume 2 Karan Sotoodeh, 2024-05-03 Equipment and Components in the Oil and

Gas Industry Volume 2 Components provides an overview of the components used in the oil and gas industry including instrumentation pipe components and safety components Using practical industry examples and an accessible approach the book is a key reference point for those seeking to learn more about the industry Covering both larger and smaller components used throughout the oil and gas industry the book details the theory behind pressure gauges temperature gauges flow gauges and level gauges It then goes on to discuss piping components such as pipes flanges and gaskets and introduces piping special components Valves are 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

Onshape 2025: A Power Guide for Beginners and Intermediate Users CADArtifex, Sandeep Dogra, 2025-03-11 Onshape 2025 A Power Guide for Beginners and Intermediate Users is a comprehensive textbook for instructor led training and self paced learning It is an essential resource for students professionals hobbyists engineers and designers seeking to master Onshape for 3D mechanical design Tailored for new users and ideal for classroom instruction this guide spans 10 chapters and 602 pages thoroughly covering core Onshape environments including Sketching Part Studio Assembly and Drawing With step by step instructions it walks users through creating parametric 3D solid components assemblies and 2D drawings making it a complete resource for mastering Onshape More than just a tool and command manual this textbook emphasizes key design principles alongside software proficiency Each chapter features in depth tutorials with step by step guidance for efficiently creating mechanical designs and drawings Additionally every chapter concludes with hands on test drives allowing users to explore and experience Onshape s robust and intuitive technical capabilities Who Should Read This Book This book is designed for a wide range of users from beginners to advanced professionals as well as Onshape instructors With well structured easy to navigate chapters it offers a clear understanding of various design methodologies Onshape s tools and fundamental design principles

Albright's Chemical Engineering Handbook Lyle Albright, 2008-11-20 Taking greater advantage of powerful computing capabilities over the last several years the development of fundamental information and new models has led to major advances in nearly every aspect of chemical engineering Albright s Chemical Engineering Handbook represents a reliable source of updated methods applications and fundamental concepts that will continue to play a significant role in driving new research and improving plant design and operations Well rounded concise and practical by design this handbook collects valuable insight from an exceptional diversity of leaders in their respective specialties Each chapter provides a clear review of basic information case examples and references to additional more in depth information They explain essential principles calculations and issues relating to topics including reaction engineering process control and design waste disposal and electrochemical and

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Materials Selection for Hydrocarbon and Chemical Plants Hansen,1996-08-08 Describes the systematic procedure for using process and mechanical design information to select construction materials suitable for a range of chemical and hydrocarbon processing plants The volume features tables for locating the American Society for Testing and Materials ASTM product form specifications for construction materials that have code allowable design stresses It analyzes threshold values for degradation phenomena involving thermal damage

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

Surface Production Operations: Volume III: Facility Piping and Pipeline Systems Maurice Stewart,2015-10-15 Surface Production Operations Facility Piping and Pipeline Systems Volume III is a hands on manual for applying mechanical and physical principles to all phases of facility piping and pipeline system design construction and operation For over twenty years this now classic series has taken the guesswork out of the design selection specification installation operation testing and trouble shooting of surface production equipment The third volume presents readers with a hands on manual for applying mechanical and physical principles to all phases of facility piping and pipeline system design construction and operation Packed with charts tables and diagrams this authoritative book provides practicing engineer and senior field personnel with a quick but rigorous exposition of piping and pipeline theory fundamentals and application Included is expert advice for determining phase states and their impact on the operating conditions of facility piping and pipeline systems determining pressure drop and wall thickness and optimizing line size for gas liquid and two phase lines Also included are a guide to applying international design codes and standards and guidance on how to select the appropriate ANSI API pressure temperature ratings for pipe flanges valves and fittings Covers new and existing piping systems including concepts for expansion supports manifolds pigging and insulation requirements Presents design principles for a pipeline pigging system Teaches how to detect monitor and control pipeline corrosion Reviews onshore and offshore safety and environmental practices Discusses how to evaluate mechanical integrity

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 **Regulatory Guide** U.S. Nuclear Regulatory Commission. Office of Standards Development, Contents 1 Power reactors 2 Research and test reactors 3 Fuels and materials facilities 4 Environmental and siting 5 Materials and plant protection 6 Products 7 Transportation 8 Occupational health 9 Antitrust reviews 10 General **Pressure Vessel Design Manual** Dennis R. Moss, 2004-01-24 A pressure vessel is a container that holds a liquid vapor or gas at a different pressure other than atmospheric pressure at the same elevation More specifically in this instance a pressure vessel is used to distill crack crude material taken from the ground petroleum etc and output a finer quality product that will eventually become gas plastics etc This book is an accumulation of design procedures methods techniques formulations and data for use in the design of pressure vessels their respective parts and equipment The book has broad applications to chemical civil and petroleum engineers who construct install or operate process facilities and would also be an invaluable tool for those who inspect the manufacturing of pressure vessels or review designs ASME standards and guidelines such as the method for determining the Minimum Design Metal Temperature are impenetrable and expensive avoid both problems with this expert guide Visual aids walk the designer through the multifaceted stages of analysis and design Includes the latest procedures to use as tools in solving design issues

Handbook of Turbomachinery Earl Logan, Jr., 2003-05-01 Building on the success of its predecessor Handbook of Turbomachinery Second Edition presents new material on advances in fluid mechanics of turbomachinery high speed rotating and transient experiments cooling challenges for constantly increasing gas temperatures advanced experimental heat transfer and cooling effectiveness techniques and propagation of wake and pressure disturbances Completely revised and updated it offers updated chapters on compressor design rotor dynamics and hydraulic turbines and features six new chapters on topics such as aerodynamic instability flutter prediction blade modeling in steam turbines multidisciplinary design optimization Pipeline Valve Technology Karan Sotoodeh, 2022-12-21 The e book version of the book Pipeline Valve Technology complements the other versions of the book The e book version provides the user with additional questions and answers at the end of each chapter to gauge and enhance the user's understanding The book covers the life cycle of pipeline valves the largest and most essential valves in offshore pipeline engineering Discussing the design process testing production transportation installation and maintenance the book also covers the risk analysis required to assess the reliability of these

valves Pipeline valves require particular attention to ensure they are safely designed installed and maintained due to the high stakes Failure would result in environmental pollution the destruction of expensive assets and potential loss of life Proper installation and upkeep require specialist processes throughout the life cycle of the valve This book is a key guide to these processes Beginning by looking at the design of pipeline valves this book details how conserving weight and space is prioritized how materials are chosen how thickness is calculated and how leakage is minimized It then discusses production and specific welding techniques to bond dissimilar materials alongside casting and machining Building on other discussions in the text with case studies and questions and answers for self study this book is the ideal guide to pipeline valves This book will be of interest to professionals in the industries of offshore oil and gas material engineering coatings mechanical engineering and piping It will also be relevant to students studying coating and welding or mechanical piping or petroleum engineering

How to Select the Right Centrifugal Pump Robert X. Perez, 2015-07-30 Choosing a centrifugal pump from the countless options available can be daunting but someone has to make the decision Many factors such as the required flow differential pressure suction conditions etc must be weighed against the capital costs and cost of energy for the pumps considered To determine the right pump you must consider the overall cost of ownership which includes capital cost operating costs and maintenance cost What good is a low cost pump if it is inefficient or if is costly to maintain The selection methodology offered in this book focuses mainly on hydraulic design considerations but it also touches on mechanical design details Analyzing basic pump hydraulic parameters allows you to quickly determine if a centrifugal pump makes sense for your particular application If you do decide a centrifugal pump will work for your application then you need to be able to evaluate the various bids returned by pump manufacturers A complete chapter is devoted to tabulating quotes from pump manufacturers in order to properly evaluate their bids and select the best overall option

Chronicle Financial Aid Guide, 2005 Federal Register, 2012-10 Petroleum Refining Design and Applications Handbook, Volume 4 A. Kayode Coker, 2023-02-01 PETROLEUM REFINING This fourth volume in the Petroleum Refining 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 This book provides the design of heat exchanger equipment crude oil fouling in pre heat train exchangers crude oil fouling models fouling mitigation and monitoring prevention and control of liquid and gas side fouling using the Excel spreadsheet and UniSim design software for the design of shell and tube heat exchangers double pipe heat exchangers air cooled exchangers heat loss tracing for process piping pinch analysis for hot and cold utility targets and process safety incidents involving these equipment items and pertinent industrial case studies Use of UniSim Design UniSim STE software is illustrated in further elucidation of the design of shell and tube heat exchangers condensers and UniSim ExchangerNet R470 for the design of heat exchanger networks using pinch analysis This is important for determining minimum cold and hot utility requirements composite curves of hot and cold streams the grand composite curve the heat

exchanger network and the relationship between operating cost index target and the capital cost index target against T_{min}

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 This groundbreaking new volume Assists engineers in rapidly analyzing problems and finding effective design methods and select mechanical specifications Provides improved design manuals to methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petroleum refining operations topics with new materials on significant industry changes Extensive Excel spreadsheets for the design of process vessels for mechanical separation of two phase and three phase fluids double pipe heat exchanger air cooled exchanger pinch analysis for hot and cold utility targets Provides UniSim based case studies for enabling simulation of key processes outlined in the book Helps achieve optimum operations and process conditions and shows how to translate design fundamentals into mechanical equipment specifications Has a related website that includes computer applications along with spreadsheets and concise applied process design flow charts and process data sheets Provides various case studies of process safety incidents in refineries and means of mitigating these from investigations by the US Chemical Safety Board Includes a vast Glossary of Petroleum and Technical Terminology

Heat Exchanger Design Handbook Kuppan Thulukkanam, 2000-02-23 This comprehensive reference covers all the important aspects of heat exchangers HEs their design and modes of operation and practical large scale applications in process power petroleum transport air conditioning refrigeration cryogenics heat recovery energy and other industries Reflecting the author's extensive practical experienc

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- Chapter 2: Essential Elements of Asme Selection Guide
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- Chapter 4: Asme Selection Guide in Specific Contexts
- Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Asme Selection Guide. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Asme Selection Guide.

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