

Application of Check Valves

Type Flow	Media Type	Velocity Range FPS (m/s)	Recommended Check Valve Type
Uniform With Insignificant Reversal	Water Or Oil	1 to 6 (0.3 to 2)	Swing Check w/ Lever and ctrl wt.
	Steam, Water, Gas	7 to 100 (2 to 30)	Simple Swing
Uniform	Water Or Oil	5 to 10 Max (a 5 to 3)	In-line Guided Disc
Pulsating	Air Or Gas	5 to 10 Max (a 5 to 3)	In-line Guided Disc w/ Cushion Chamber
Uniform With Normal Reversal	Water Or Oil	7 to 10 (2 to 3)	Swing w/ Spring Assist To Close
Uniform With Severe Reversal	Water Or Oil	7 to 10 (2 to 3)	Swing w/ Dashpot
Uniform Or Pulsating	Steam, Water Or Gas	8 to 160 (2.5 to 50)	Tee- Or Inclined- Pattern Lift
Uniform Or Pulsating (Severe Reversal)	Steam, Water Or Gas	10 to 160 (3 to 50)	Tee- Pattern Lift w/ Dashpot
Uniform	Steam, Water Or Gas	12 to 250 (4 to 75)	Tilting Disc
Uniform Or Pulsating	Steam, Water, Gas Or Oil	20 to 250 (6 to 75)	Wye-Pattern Lift
Uniform Or Pulsating (Severe Reversal)			Wye-Pattern Lift w/ dashpot

Valve Application Guide

Donny Petersen



Valve Application Guide:

Valve Selection Handbook R. W. Zappe, 1999 This definitive guide to valve selection is the result of the author's lifelong study of the design and application of valves. It covers the fundamentals of sealing mechanisms as well as the sealability of fluids and flow through valves. You will find a complete analysis of valve designs for various industrial flow applications. This fourth edition is thoroughly updated with revised and expanded chapters on pressure relief valves and rupture discs. This book takes into account U.S. practices and codes as well as emerging European standards. The book is an excellent reference text for practicing engineers and students. It is also of interest to valve manufacturers and authorities who evaluate and establish standards.

A Practical Guide to Piping and Valves for the Oil and Gas Industry Karan Sotoodeh, 2021-01-12 A Practical Guide to Piping and Valves for the Oil and Gas Industry covers how to select test and maintain the right oil and gas valve. Each chapter focuses on a specific type of valve with a built-in structured table on valve selection. Covering both onshore and offshore projects, the book also gives an introduction to the most common types of corrosion in the oil and gas industry, including CO₂, H₂S, pitting, crevice, and more. A model to evaluate CO₂ corrosion rate on carbon steel piping is introduced along with discussions on bulk piping components, including fittings, gaskets, piping, and flanges. Rounding out with chapters devoted to valve preservation to protect against harmful environments and factory acceptance testing, this book gives engineers and managers a much-needed tool to better understand today's valve technology. Presents oil and gas examples and challenges relating to valves, including many illustrations from valves in different stages of projects. Helps readers understand valve materials, testing, actuation, packing, and preservation, also including a new model to evaluate CO₂ corrosion rates on carbon steel piping. Presents structured valve selection tables in each chapter to help readers pick the right valve for the right project.

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.

The Engineering Handbook Richard C. Dorf, 2018-10-03 First published in 1995, The Engineering Handbook quickly became the definitive engineering reference. Although it remains a bestseller, the many advances realized in traditional engineering fields, along with the emergence and rapid growth of fields such as biomedical engineering, computer engineering, and nanotechnology, mean that the time has come to bring this standard-setting reference up to date. New in the Second Edition, 19 completely

new chapters addressing important topics in bioinstrumentation control systems nanotechnology image and signal processing electronics environmental systems structural systems 131 chapters fully revised and updated Expanded lists of engineering associations and societies The Engineering Handbook Second Edition is designed to enlighten experts in areas outside their own specialties to refresh the knowledge of mature practitioners and to educate engineering novices Whether you work in industry government or academia this is simply the best most useful engineering reference you can have in your personal office or institutional library [The Handbook of Lithium-Ion Battery Pack Design](#) John T. Warner,2024-05-14 The Handbook of Lithium Ion Battery Pack Design Chemistry Components Types and Terminology Second Edition provides a clear and concise explanation of EV and Li ion batteries for readers that are new to the field The second edition expands and updates all topics covered in the original book adding more details to all existing chapters and including major updates to align with all of the rapid changes the industry has experienced over the past few years This handbook offers a layman s explanation of the history of vehicle electrification and battery technology describing the various terminology and acronyms and explaining how to do simple calculations that can be used in determining basic battery sizing capacity voltage and energy By the end of this book the reader will have a solid understanding of the terminology around Li ion batteries and be able to undertake simple battery calculations The book is immensely useful to beginning and experienced engineers alike who are moving into the battery field Li ion batteries are one of the most unique systems in automobiles today in that they combine multiple engineering disciplines yet most engineering programs focus on only a single engineering field This book provides the reader with a reference to the history terminology and design criteria needed to understand the Li ion battery and to successfully lay out a new battery concept Whether you are an electrical engineer a mechanical engineer or a chemist this book will help you better appreciate the inter relationships between the various battery engineering fields that are required to understand the battery as an Energy Storage System It gives great insights for readers ranging from engineers to sales marketing management leadership investors and government officials Adds a brief history of battery technology and its evolution to current technologies Expands and updates the chemistry to include the latest types Discusses thermal runaway and cascading failure mitigation technologies Expands and updates the descriptions of the battery module and pack components and systems Adds description of the manufacturing processes for cells modules and packs Introduces and discusses new topics such as battery as a service cell to pack and cell to chassis designs and wireless BMS **Donny'S Unauthorized Technical Guide to Harley-Davidson, 1936 to Present** Donny Petersen,2012-08-31 Donny Petersen who studied privately with Harley Davidson engineers shares practical knowledge and street wise tips in the fifth volume of his unauthorized guide on the best motorcycle maker in the world Written in straightforward language this guide can help even a motorcycle novice to become an expert mechanic by following Donnys step by step instructions Whether youre looking for detailed service procedures such as fitting engine bearings or simple tips on maintenance Donny is eager to share the

expertise he's stockpiled on the Shovelhead over the last forty years Donny shares real stories so you can find solutions to whatever is ailing your Shovelhead Resolve teething problems troubleshoot problematic aspects of the engine and fix whatever comes up with various models Gear ratios torque multiplication and H D and aftermarket tools of the day are prominent in the guide which even includes information on tools Donny invented himself to make your life easier Get the specifications for tightening all the Shovelhead fasteners and adjustments to mechanisms on various models In his usual forthright manner Donny makes technical issues understandable interspersing explanations with entertaining stories about the hard core lifestyle that comes with being a Harley rider *Seals and Sealing Handbook* Robert K. Flitney, 2014-06-13

Seals and Sealing Handbook Sixth Edition provides comprehensive coverage of sealing technology bringing together information on all aspects of this area to enable you to make the right sealing choice This includes detailed coverage on the seals applicable to static rotary and reciprocating applications the best materials to use in your sealing systems and the legislature and regulations that may impact your sealing choices Updated in line with current trends this updated reference provides the theory necessary for you to select the most appropriate seals for the job and with its Failure Guide the factors to consider should anything go wrong Building on the practical stepped approach of its predecessor *Seals and Sealing Handbook* 6th Edition remains an essential reference for any engineer or designer who uses seals in their work A comprehensive reference covering a broad range of seal types for all situations to ensure that you are able to select the most appropriate seal for any given task Includes supporting case studies and a unique Failure Guide to help you troubleshoot if things go wrong New edition includes the most up to date information on sealing technology making it an essential reference for anyone who uses seals in their work *Handbook of Lubrication and Tribology* Robert W. Bruce, 2012-07-06 Since the publication of the best selling first edition the growing price and environmental cost of energy have increased the significance of tribology *Handbook of Lubrication and Tribology* Volume II Theory and Design Second Edition demonstrates how the principles of tribology can address cost savings energy conservation and environmental protection This second edition provides a thorough treatment of established knowledge and practices along with detailed references for further study Written by the foremost experts in the field the book is divided into four sections The first reviews the basic principles of tribology wear mechanisms and modes of lubrication The second section covers the full range of lubricants coolants including mineral oil synthetic fluids and water based fluids In the third section the contributors describe many wear and friction reducing materials and treatments which are currently the fastest growing areas of tribology with announcements of new coatings better performance and new vendors being made every month The final section presents components equipment and designs commonly found in tribological systems It also examines specific industrial areas and their processes Sponsored by the Society of Tribologists and Lubrication Engineers this handbook incorporates up to date peer reviewed information for tackling tribological problems and improving lubricants and tribological systems The book shows how the

proper use of generally accepted tribological practices can save money conserve energy and protect the environment

Valve Handbook Philip Skousen, 2004-06-22 The valve industry has become increasingly digitized over the past five years This revised second edition reflects those developments by focusing on the latest processing plant applications for smart valve technology Updated information on testing agencies and the latest code changes Contents Introduction to Valves Valve Selection Criteria Manual Valves Control Valves Manual Operators and Actuators New Smart Valve Technology Smart Valve and Positioners Valve Sizing Actuator Sizing Common Valve Problems Abbreviations of Related Organizations and Standards

The CRC Handbook of Mechanical Engineering D. Yogi Goswami, 2004-09-29 The second edition of this standard setting handbook provides and all encompassing reference for the practicing engineer in industry government and academia with relevant background and up to date information on the most important topics of modern mechanical engineering These topics include modern manufacturing and design robotics computer engineering environmental engineering economics patent law and communication information systems The final chapter and appendix provide information regarding physical properties and mathematical and computational methods New topics include nanotechnology MEMS electronic packaging global climate change electric and hybrid vehicles and bioengineering

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