

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

R. W. Zappe



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

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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 Donny's Unauthorized Technical Guide to Harley-Davidson, 1936 to Present Donny Petersen, 2012-08 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 Donny's step by step instructions Whether you're 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 bikes 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 *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

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Power Plant Instrumentation and Control Handbook Swapan Basu,Ajay Kumar Debnath,2014-11-04 The book discusses instrumentation and control in modern fossil fuel power plants with an emphasis on selecting the most appropriate systems subject to constraints engineers have for their projects It provides all the plant process and design details including specification sheets and standards currently followed in the plant Among the unique features of the book are the inclusion of control loop strategies and BMS FSSS step by step logic coverage of analytical instruments and technologies for pollution and energy savings and coverage of the trends toward field bus systems and integration of subsystems into one network with the help of embedded controllers and OPC interfaces The book includes comprehensive listings of operating values and ranges of parameters for temperature pressure flow level etc of a typical 250 500 MW thermal power plant Appropriate for project engineers as well as instrumentation control engineers the book also includes tables charts and figures from real life projects around the world Covers systems in use in a wide range of power plants conventional thermal power plants combined cogen plants supercritical plants and once through boilers Presents practical design aspects and current trends in instrumentation Discusses why and how to change control strategies when systems are updated changed Provides instrumentation selection techniques based on operating parameters Spec sheets are included for each type of instrument Consistent with current professional practice in North America Europe and India

ISA Handbook of Control Valves James W. Hutchison,1971

The CRC Handbook of Thermal Engineering Frank Kreith,2000-02-01 This book is unique in its in depth coverage of heat transfer and fluid mechanics including numerical and computer methods applications thermodynamics and fluid mechanics It will serve as a comprehensive resource for professional engineers well into the new millennium Some of the material will be drawn from the Handbook of Mechanical Engineering but with expanded information in such areas as compressible flow and pumps conduction and desalination

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