








Valve Selection Guide for Two-Way Valves

Valve Application	Chilled or Hot Water 251°F Maximum; 35 psig Maximum Steam						
	Globe Valves						
Valve Body Type	Union, Angle	Union, Straightway	Flared	Union, Sweat	Screwed	Screwed	Flanged
							
Stem Up Open	VB-7211-B-3-P	VB-7211-B-4-P	VB-7212-B-4-P	VB-7214-B-4-P	VB-7213-B-4-P	VB-9213-B-4-P	VB-9213-B-5-P
Stem Up Closed	Not Available	VB-7221-B-4-P ^a	VB-7222-B-4-P ^a	VB-7224-B-4-P ^a	VB-7223-B-4-P ^a	VB-9223-B-4-P ^a	VB-9223-B-5-P ^a
Static Pressure Rating	250 psig	250 psig	250 psig	250 psig	250 psig	250 psig	125 psig
Sizes Available	1/2 to 1-1/4 in.	1/2 to 1-1/4 in.	5/8 in. O.D., SAE 45°	1/2 to 2 in.	1/2 to 2 in.	3-1/2 & 3 in.	3-1/2 to 6 in.
Range of Cv's Available	0.4 to 22	0.4 to 20	0.4 to 4.4	0.4 to 42	0.4 to 40	65 & 85	54 to 350
Flow Type	Equal %	Equal %	Equal %	Equal %	Equal %	Equal %	Equal %

PNEUMATIC ACTUATORS^a

	Pages						
	685 to 692	693 to 699 714 to 721	645 to 692	693 to 698	693 to 698	693 to 698	693 to 698

ELECTRIC/ELECTRONIC ACTUATORS

Input Signals	Pages						
Two-Position (SPST) (Spring Return)	685 to 692	693 to 699 714 to 721	645 to 692	693 to 703	693 to 703 714 to 721	693 to 703	704 to 713
Two-Position (SPDT Snap Acting) (Non-Spring Return)	—	—	—	—	704 to 713	704 to 713	704 to 713
System 8000, Voltage Input 2 to 15 Vdc	685 to 692	685 to 692	685 to 692	693 to 703	693 to 703	693 to 703	693 to 703
Shirowine (Series 90)	—	—	—	—	693 to 703	693 to 703	693 to 703
Current Input 4 to 20 mA etc.	—	—	—	—			
Floating Control, SPDT or Two SPST, Direct Digital Control	—	714 to 721	—	704 to 713	704 to 721	704 to 713	704 to 713
Pneumatic to Electric	—	—	—	693 to 713	693 to 713	693 to 713	693 to 713
Voltage Input 2 to 15 Vdc	—	714 to 721	—	—	714 to 721	—	—

^a Not applicable with gear train actuators. Use stem up-open valve body with N.C. actuator.

^b Optional inputs available to pneumatic are: SPST, SPDT, shirowine (Series 90), System 8000 (voltage input 2 to 15 Vdc, current input 4 to 20 mA). These options are shown with the specific valve selected.

HOW TO USE TABLE:

- Select the vertical column that has a valve body series that meets your requirements.
- Select the horizontal column with correct type of actuator (Pneumatic or Electric/Electronic) and correct input signal for Electric/Electronic actuator.
- The intersection of the two columns shows the pages for complete selection and ordering information.

Valves Selection Guide

R. W. R. W. Zappe



Valves Selection Guide:

Valve Selection Handbook R. W. Zappe, 1991 A practical guide to valve selection covering the fundamentals of valve construction and application and analyzing the different hazards and requirements of various industrial fluid flow situations

Valve Selection and Specification Guide Ronald C. Merrick, 1991-01-10 Today people who specify or select valves spend over two thirds of their time researching literature for information on valve sizing availability materials and standards This is nonproductive time Unfortunately most companies do not have the luxury of a team of experts with the necessary experience and education in all of the different fields that apply to valves The next best alternative is to understand what valves are and all the things they can do By definition valves are devices that stop start mix or change the direction and or magnitude of the fluid flow pressure or its temperature As a specifier or selector you will have to determine whether the valve is going to be used for flow control throttling or for on off service Then you will have to determine the cycle life or frequency of their operation You will discover that valves are classified into three categories on off valves control or regulator valves and fixed valves such as orifice plate nozzle duckbill rupture disk blind valve etc These valves represent approximately thirty different design configurations It has been said that if cost and delivery were no problem anyone of the seven basic valve styles could do the job of any other one But cost and delivery are very important factors in the real world So you have to be able to distinguish among these seven styles ball butterfly gate globe pinch diaphragm plug and poppet valves

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

Valve Selection and Specification Guide R. Merrick, 2013-05-14 Today people who specify or select valves spend over two thirds of their time researching literature for information on valve sizing availability materials and standards This is nonproductive time Unfortunately most companies do not have the luxury of a team of experts with the necessary experience and education in all of the different fields that apply to valves The next best alternative is to understand what valves are and all the things they can do By definition valves are devices that stop start mix or change the direction and or magnitude of the fluid flow pressure or its temperature As a specifier or selector you will have to determine whether the valve is going to be used for flow control throttling or for on off service Then you will have to determine the cycle life or frequency of their operation You will discover that valves are classified into three categories on off valves control

or regulator valves and fixed valves such as orifice plate nozzle duckbill rupture disk blind valve etc These valves represent approximately thirty different design configurations It has been said that if cost and delivery were no problem anyone of the seven basic valve styles could do the job of any other one But cost and delivery are very important factors in the real world So you have to be able to distinguish among these seven styles ball butterfly gate globe pinch diaphragm plug and poppet valves

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

An Introductory Guide to Valve Selection E. Smith,B. E. Vivian,1995-02-23 A guide to the choice of common types of isolating block check and diverter valves for the energy process oil and gas industries The book is applicable to both onshore and offshore locations including subsea applications

Valve Selection and Service Guide John T. Mead,1986

Valve Essentials: A Comprehensive Guide Pasquale De Marco,2025-07-23 Valves are essential components in industrial systems controlling the flow of fluids gases and slurries Whether you are an engineer operator or maintenance technician a thorough understanding of valves is crucial for ensuring the safe and efficient operation of your systems This comprehensive guide provides everything you need to know about valves from their basic principles to their advanced applications Inside you will discover The different types of valves and their unique characteristics The materials used in valve construction and their suitability for various applications How valves work and the principles behind their operation The importance of valve maintenance and the best practices for keeping valves in optimal condition The specific requirements and challenges of valve applications in various industries including power plants oil and gas facilities chemical plants paper mills and water treatment plants With clear explanations detailed illustrations and real world examples this book will help you Select the right valve for your specific needs Design and install valves correctly Maintain and troubleshoot valves effectively Ensure the safe and reliable operation of your industrial systems

Valve Essentials A Comprehensive Guide is the ultimate resource for anyone who works with valves Whether you are a seasoned professional or new to the field this book will provide you with the knowledge and skills you need to succeed If you like this book write a review

Valves, Piping, and Pipelines Handbook T. Christopher Dickenson,1999 Hardbound Over recent years a number of significant developments in the application of valves have taken place the increasing use of actuator devices the introduction of more valve designs capable of reliable operation in difficult fluid handling situations low noise technology and most importantly the increasing attention being paid to product safety and reliability Digital technology is making an impact on this market with

manufacturers developing intelligent smart control valves incorporating control functions and interfaces New metallic materials and coatings available make it possible to improve application ranges and reliability New and improved polymers plastic composite materials and ceramics are all playing their part Fibre reinforced plastic pipe systems glass reinforced epoxy pipe systems and the traditional low cost polyester pipe systems have all undergone sophisticated design and manufacturing technology changes The pote

Handbook of Valves and Actuators Brian Nesbitt, 2011-04-19 Industries that use pumps seals and pipes will also use valves and actuators in their systems This key reference provides anyone who designs uses specifies or maintains valves and valve systems with all of the critical design specification performance and operational information they need for the job in hand Brian Nesbitt is a well known consultant with a considerable publishing record A lifetime of experience backs up the huge amount of practical detail in this volume Valves and actuators are widely used across industry and this dedicated reference provides all the information plant designers specifiers or those involved with maintenance require Practical approach backed up with technical detail and engineering know how makes this the ideal single volume reference Compares and contrasts valve and actuator types to ensure the right equipment is chosen for the right application and properly maintained

Valve Selection Handbook (Fourth Edition) R. W. R. W. Zappe, 2015-01-16 This is the definitive guide to valve selection This fourth edition is thoroughly updated with revised and expanded chapters on pressure relief valves and rupture discs It takes into account U S practices and codes as well as emerging European standards

Instrument Engineers' Handbook, Volume Two Bela G. Liptak, 2018-10-08 The latest update to Bela Liptak's acclaimed bible of instrument engineering is now available Retaining the format that made the previous editions bestsellers in their own right the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information The authors are practicing engineers not theoretical people from academia and their from the trenches advice has been repeatedly tested in real life applications Expanded coverage includes descriptions of overseas manufacturer's products and concepts model based optimization in control theory new major inventions and innovations in control valves and a full chapter devoted to safety With more than 2000 graphs figures and tables this all inclusive encyclopedic volume replaces an entire library with one authoritative reference The fourth edition brings the content of the previous editions completely up to date incorporates the developments of the last decade and broadens the horizons of the work from an American to a global perspective B la G Lipt k speaks on Post Oil Energy Technology on the AT T Tech Channel

Design Manual, Civil Engineering United States. Bureau of Yards and Docks, 1962

Industrial Valves Selection Guide Kitty Silbernagel, 2021-07-12 Industrial valves are of various types such as Gate Valves Globe Valves Ball Valves Butterfly Valves Check Valves Pressure Valves and Diaphragm Valves etc These valves perform various functions working on a different working principle This book aims to give the reader a quick and simple explanation about the types of valves that are used in different fields of industries such as petroleum natural gas petrochemicals etc It will be

important to new field operators and graduates of chemical and petroleum engineering departments once they read the book they will be able to understand the components of valves how the valves work how to differentiate between different types of it as well

The Comprehensive Valve Dictionary Karan Sotoodeh,2025-09-10 This book is a pioneering reference work designed to address the complex terminology technical specifications and diverse applications of valves in industrial systems The Comprehensive Valve Dictionary is an authoritative and practical reference that demystifies the technical language surrounding industrial valves The dictionary provides detailed definitions of over a thousand valve related terms including valve types components materials standards testing methods and failure mechanisms In addition to traditional applications this dictionary places significant emphasis on valves used in renewable energy systems including those for hydrogen production hydropower carbon capture and storage CCS geothermal energy and wind power Moreover it explores the definitions and real world applications of cutting edge technologies such as smart valves condition monitoring digital twin technology and additive manufacturing It also includes cross references to relevant international standards e g API ASME ISO troubleshooting guides and operational insights By bridging gaps in understanding this resource will support professionals in making informed decisions improving system reliability and ensuring compliance with industry best practices This work is specifically tailored for engineers designers manufacturers and researchers working in oil and gas petrochemicals power generation and renewable energy industries

The Safety Relief Valve Handbook Marc Hellemans,2009-08-31 The Safety Valve Handbook is a professional reference for design process instrumentation plant and maintenance engineers who work with fluid flow and transportation systems in the process industries which covers the chemical oil and gas water paper and pulp food and bio products and energy sectors It meets the need of engineers who have responsibilities for specifying installing inspecting or maintaining safety valves and flow control systems It will also be an important reference for process safety and loss prevention engineers environmental engineers and plant and process designers who need to understand the operation of safety valves in a wider equipment or plant design context No other publication is dedicated to safety valves or to the extensive codes and standards that govern their installation and use A single source means users save time in searching for specific information about safety valves The Safety Valve Handbook contains all of the vital technical and standards information relating to safety valves used in the process industry for positive pressure applications Explains technical issues of safety valve operation in detail including identification of benefits and pitfalls of current valve technologies Enables informed and creative decision making in the selection and use of safety valves The Handbook is unique in addressing both US and European codes covers all devices subject to the ASME VIII and European PED pressure equipment directive codes covers the safety valve recommendations of the API American Petroleum Institute covers the safety valve recommendations of the European Normalisation Committees covers the latest NACE and ATEX codes enables readers to interpret and understand codes in practice Extensive and detailed illustrations and graphics

provide clear guidance and explanation of technical material in order to help users of a wide range of experience and background as those in this field tend to have to understand these devices and their applications Covers calculating valves for two phase flow according to the new Omega 9 method and highlights the safety difference between this and the traditional method Covers selection and new testing method for cryogenic applications LNG for which there are currently no codes available and which is a booming industry worldwide Provides full explanation of the principles of different valve types available on the market providing a selection guide for safety of the process and economic cost Extensive glossary and terminology to aid readers ability to understand documentation literature maintenance and operating manuals Accompanying website provides an online valve selection and codes guide

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

A Guide to Golf Course Irrigation System Design and Drainage Edward Pira, 1997-01-15 A Guide to Golf Course Irrigation System Design and Drainage details every phase of an irrigation program from the system design to construction from scheduling to operation and much more It also covers the fundamentals of drainage design and installation Turfgrass managers and golf course superintendents will refer to this handy book often to plan and implement effective irrigation systems ensure appropriate capacity easy installation and practical operation and maintenance

The Concise Valve Handbook, Volume I Michael A. Crabtree, 2018-09-26 This two volume book comprises a comprehensive up to date body of knowledge that provides a total in depth insight into valve and actuator technology looking not just at control valves but a whole host of other types including check valves shut off valves solenoid valves and pressure relief valves Research studies within the process industry routinely

indicate that the fluid control valve is responsible for 60 to 70% of poor functioning control systems Furthermore valves in general are consistently wrongly selected regularly misapplied and often incorrectly installed A methodology is presented to ensure the optimum selection of size choice of body and trim materials components and ancillaries Whilst studying the correct procedures for sizing readers will also learn the correct procedures for calculating the spring wind up or bench set Maintenance issues also include testing for deadband hysteresis stick slip and non linearity on line diagnostics and signature analysis Written in a detailed but understandable language the two volumes are presented in a form suitable for both the beginner with no prior knowledge of the subject and the more advanced specialist *Instrument Engineers' Handbook,(Volume 2) Third Edition* Bela G. Liptak,1995-05-15 This third edition of the Instrument Engineers Handbook most complete and respected work on process instrumentation and control helps you

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