








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 to 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 to 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.

Valve Selection Guide

Peter Smith, R. W. Zappe



Valve Selection 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.

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 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

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 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 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

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

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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

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

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 *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 (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

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 **Coating Application for Piping, Valves and Actuators in Offshore Oil and Gas Industry** Karan Sotoodeh,2022-09-14 This book looks at the applications of coating in piping valves and actuators in the offshore oil and gas industry Providing a key guide for professionals and

students alike it highlights specific coating standards within the industry including ISO NORSOK SSPC and NACE In the corrosive environment of a seawater setting coatings to protect pipes valves and actuators are essential This book provides both the theory behind these coatings and practical applications including case studies from multinational companies It covers different offshore zones and their corrosivity level alongside the different types of external corrosion such as stress cracking and hydrogen induced stress cracking The key coatings discussed are zinc rich coatings thermal spray zinc or aluminum phenolic epoxy and passive fire protection with a review of their defects and potential failures The book also details the role of coating inspectors and explains how to diagnose faults Case studies from companies such as Aker Solutions Baker Hughes Equinor and British Petroleum illustrate the wide range of industrial applications of coating technologies This book is of interest to engineers and students in materials coating mechanical piping or petroleum engineering

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

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Air Pollution Control Equipment Selection Guide Kenneth C. Schiffner, 2021-05-16 This new edition of Air Pollution Control Equipment Selection Guide builds upon the successes of previous editions that developed a detailed discussion on various technologies used for air pollution control This book covers a wide range of equipment and provides a good overview of the related principles and applications A particularly valuable feature are the practical examples not commonly available in other books Based on the author s fifty years of experience in applying and operating air pollution control equipment this book provides easy to read information on basic air pollution control technology and is the quintessential resource for the busy engineer and for those who do not have formal training in air pollution control

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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 **Chemical Engineering**

Design Gavin Towler, Ray Sinnott, 2021-07-14 Chemical Engineering Design Principles Practice and Economics of Plant and Process Design is one of the best known and most widely adopted texts available for students of chemical engineering The text deals with the application of chemical engineering principles to the design of chemical processes and equipment The third edition retains its hallmark features of scope clarity and practical emphasis while providing the latest US codes and standards including API ASME and ISA design codes and ANSI standards as well as coverage of the latest aspects of process design operations safety loss prevention equipment selection and more The text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors Provides students with a text of unmatched relevance for chemical process and plant design courses and for the final year capstone design course Written by practicing design engineers with extensive undergraduate teaching experience Contains more than 100 typical industrial design projects drawn from a diverse range of process industries NEW TO THIS EDITION Includes new content covering food pharmaceutical and biological processes and commonly used unit operations Provides updates on plant and equipment costs regulations and technical standards Includes limited online access for students to Cost Engineering's Cleopatra Enterprise cost estimating software

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