

# Valve Selection Guide for Two-Way Valves

| Valve Application       | Chilled or Hot Water 201°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 <sup>a</sup>                                                        | VB-7222-B-4-P <sup>a</sup>                                                        | VB-7224-B-4-P <sup>a</sup>                                                          | VB-7223-B-4-P <sup>a</sup>                                                          | VB-9223-B-4-P <sup>a</sup>                                                          | VB-9223-B-5-P <sup>a</sup>                                                          |
| 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<sup>a</sup>

|  | Pages      |                          |            |            |            |            |            |
|--|------------|--------------------------|------------|------------|------------|------------|------------|
|  | 685 to 692 | 693 to 699<br>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<br>714 to 721 | 645 to 692 | 693 to 703 | 693 to 703<br>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               | —          | —          |

<sup>a</sup> Not applicable with gear train actuators. Use stem up-open valve body with N.C. actuator.

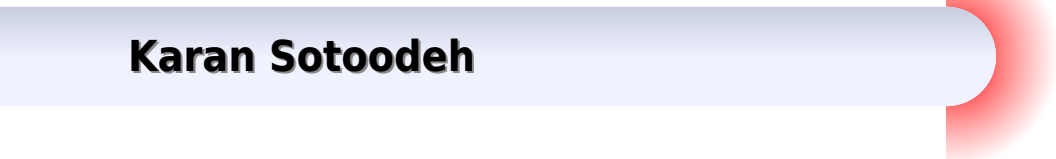
<sup>b</sup> Optional inputs available to pneumatic are: SPST, SPDT, shirowine (Series 90), System 8000 (voltage input 2 to 15 Vdc, current input 4 to 20 mA). These options are shown with the specific valve selected.

## HOW TO USE TABLE:

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

# Valves Selection Guide

**Karan Sotoodeh**



## Valves 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 and Service Guide* John T. Mead, 1986

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

**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

**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 potential

**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 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

**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 CO<sub>2</sub> H<sub>2</sub>S pitting crevice and more A model to evaluate CO<sub>2</sub> 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 CO<sub>2</sub> 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

Control Valve Primer Hans D. Baumann, 1998 This new edition of the ISA best seller contains new material on valve sizing smart digital valve positioners field based architecture network system technology and control loop performance evaluation The author a holder of 118 patents in control valve technology shares his expertise with

engineers faced with designing control loops and selecting final control elements Written with the user in mind the text avoids scientific wording and gives shortcuts through complex sizing and noise calculation formulas It gives practical advice on how to apply control valves for safety reduced energy costs and easy maintenance Contents What is a Control Valve and How Does it Affect My Control Loop Why Not Use a Speed Controlled Pump What Valve Type Shall I Choose Valve Sizing Made Easy Sizing and Selection Let the Computer Do it All Why Most People Choose Equal Percentage As a Flow Characteristic Valve Positioners The Mystery of Line Pressure Produced Valve Stem Forces or Selecting the Correct Actuator Size How to Install a Control Valve When Do I Need to Hard Face the Valve Trim and Other Questions Concerning Valve Materials Concern for the Environment Valves for Sanitary or Aseptic Service Twelve Commandments What You Shall Not Do Electric Versus Pneumatic Actuators Saving Energy The Bus System to the Rescue or What the Future May Bring

**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     The Chemical Engineering Guide to Valves Richard Greene,1984     **Valves, Piping & Pipelines Handbook** ,1986     **Power Plant Instrumentation and Control Handbook** Swapan Basu,Ajay Kumar Debnath,2019-06-09 Power Plant Instrumentation and Control Handbook Second Edition provides a contemporary resource on the practical monitoring of power plant operation with a focus on efficiency reliability accuracy cost and safety It includes comprehensive listings of operating values and ranges of parameters for temperature pressure flow and levels of both conventional thermal power plant and combined cogen plants supercritical plants and once through boilers It is updated to include tables charts and figures from advanced plants in operation or pilot stage Practicing engineers freshers advanced students and researchers will benefit from discussions on advanced instrumentation with specific reference to thermal power generation and operations New topics in this updated edition include plant safety lifecycles and safety integrity levels advanced ultra supercritical plants with advanced firing systems and associated auxiliaries integrated gasification combined cycle IGCC and integrated gasification fuel cells IGFC advanced control systems and safety lifecycle and safety integrated systems 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 All new coverage of Plant safety lifecycles and Safety Integrity Levels Discusses control and instrumentation systems deployed for the next generation of A USC and IGCC plants     **Handbook of Valves, Piping, and Pipelines** Ronald Horace Warring,1982  
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## **Table of Contents Valves Selection Guide**

1. Understanding the eBook Valves Selection Guide
  - The Rise of Digital Reading Valves Selection Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Valves Selection Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Valves Selection Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Valves Selection Guide
  - Personalized Recommendations
  - Valves Selection Guide User Reviews and Ratings
  - Valves Selection Guide and Bestseller Lists
5. Accessing Valves Selection Guide Free and Paid eBooks
  - Valves Selection Guide Public Domain eBooks
  - Valves Selection Guide eBook Subscription Services



- Valves Selection Guide Budget-Friendly Options
- 6. Navigating Valves Selection Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Valves Selection Guide Compatibility with Devices
  - Valves Selection Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Valves Selection Guide
  - Highlighting and Note-Taking Valves Selection Guide
  - Interactive Elements Valves Selection Guide
- 8. Staying Engaged with Valves Selection Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Valves Selection Guide
- 9. Balancing eBooks and Physical Books Valves Selection Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Valves Selection Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Valves Selection Guide
  - Setting Reading Goals Valves Selection Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Valves Selection Guide
  - Fact-Checking eBook Content of Valves Selection Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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