## Valve Selection Guide

DATA SHEET

Isolation Ball Valves, ASME B16.34

Page 1 of 2



#### IRSVP.

Drain and vent for power applications

- ASME 150 4500 Limited Class
- 3/4 to 2-1/2 inch (15 to 65 DN)
- Uni-directional sealing
- Forged uni-body design
- Mechanical precision stop
- Diffusion seat available



#### RSVP-UK

For small, critical power applications

- ASME 150 1500 Limited Class
- 1/2 to 3/4 inch (15 to 20 DN)
- Uni-directional sealing
- Compact



#### ISOLATOR 2.0

Low pressure applications

- ASME 150 600 Class
- 1 to 4 inch (25 to 100 DN)
- Bi-directional, metal-seated sealing
- 2-piece forged body



#### SC-3 Piece

Flexibility of in-line repair

- ASME 1500 4500 Class
- Uni-directional sealing
- 3-piece forged body



#### C-Series

Customizable isolation valves for specific applications

- ASME 150 4500 Class
- 1/2 to 42 inch (15 to 1050 DN)
- Bi-directional sealing
- Cast or forged body; 2 or 3-piece



#### T-Series

Trunnion reduces operating torque

- ASME 150 2500 Class
- 3 to 60 inch (80 to 1500 DN)
- Bi-directional sealing
- Metal- or soft-seated
- Cast or forged body: 2 or 3-piece
- API 6D or ASME B16.34



#### G-Series

General service drain and vent.

- ASME 150 600 Class
- 1 to 3 inch (25 to 75 dn)
- Uni-directional; metal/graphite terminated seats.
- 3-piece forged body



- 2 to 24 inch (50 to 600 DN)
- In-line repairable



#### PORV

Power operated relief valve

- ASME 1500 / 2500 / 4500 Class.
- 2-1/2 to 4 inch (65 to 100 DN)
- ASME mark with "V" designator any additional to



#### Customized Salutions

For unique operational requirements, MOGAS offers MAX-Series valves that involve strong collaboration between your engineering, operations and maintenance staff, along with MOGAS personnel. Site visits, technical discussions and/or specific testing are often required. These customized valves are special, one-of-a-kind solutions to satisfy your specific valve challenges.

To learn more, contact a MOGAS representative today.



The MOGAS y-pattern valve provides the optimal solution for combining process functions, reducing required space, and diverting or isolating flow within a single valve body. Metal-to-metal sessing gives dependent, repeatable, repeatable isolation in high temperature, high pressure and solids factors processes attravers.



# **Ball Valve Trim Selection Guide**

Hans D. Baumann

#### **Ball Valve Trim Selection Guide:**

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 <u>Valve Selection Handbook</u> 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 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 Pipeline Rules of Thumb Handbook E.W. McAllister, 2015-06-02 This classic reference has built a reputation as the go to book to solve even the most vexing pipeline problems Now in its seventh edition

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inadequate sizing and lack of internally detailed hardware The volume provides both fundamental theories where applicable and direct application of these theories to applied equations essential in the design effort This approach in presenting design information is essential for troubleshooting process equipment and in executing system performance analysis Volume 1 covers process planning flow sheeting scheduling cost estimation economic factors physical properties of liquids and gases fluid flow mixing of liquids mechanical separations process safety pressure relieving devices metallurgy and corrosion and process optimization The book builds upon Ludwig s classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals This new edition includes new content on three phase separation ejectors and mechanical vacuum systems process safety management HAZOP and hazard analyses and optimization of chemical process blending Provides improved design manual for methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petrochemical operation topics Extensively revised with new materials on Non Newtonian fluids homogeneous and heterogeneous flow and pressure drop ejectors phase separation metallurgy and corrosion and optimization of chemical process blending Presents many examples using Honeywell UniSim Design software developed and executable computer programs and Excel spreadsheet programs Includes case studies of process safety incidents guidance for troubleshooting and checklists Includes Software of Conversion Table and 40 process data sheets in excel format 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 Control Valve Primer Hans D. Baumann. 2008 Includes insights on valve sizing smart digital valve positioners field based architecture network system technology and control loop performance evaluation Author a holder of more than 150 patents and author of over a hundred publications in control valve technology shares his expertise on designing control loops and selecting final control elements The easy to read text provides shortcuts through complex sizing and noise calculation formulas including for liquids and cavitation and gives

practical advice on how to apply control valves for safety reduced energy costs loop stability and easy maintenance 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 filed 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 **Chemical Engineering Equipment** Buyers' Guide ,1992 Power Engineering ,1986 Corrosion and Materials Selection Alireza Bahadori, 2014-08-11 The petroleum and chemical industries contain a wide variety of corrosive environments many of which are unique to these industries Oil and gas production operations consume a tremendous amount of iron and steel pipe tubing pumps valves and sucker rods Metallic corrosion is costly However the cost of corrosion is not just financial Beyond the huge direct outlay of funds to repair or replace corroded structures are the indirect costs natural resources potential hazards and lost opportunity Wasting natural resources is a direct contradiction to the growing need for sustainable development By selecting the correct material and applying proper corrosion protection methods these costs can be reduced or even eliminated This book provides a minimum design requirement for consideration when designing systems in order to prevent or control corrosion damage safely and economically and addresses Corrosion problems in petroleum and chemical industries Requirements for corrosion control Chemical control of corrosive environments Corrosion inhibitors in refineries and petrochemical plants Materials selection and service life of materials Surface preparation protection and maintainability Corrosion monitoring plant inspection techniques and laboratory corrosion testing techniques Intended for engineers and industry personnel working in the petroleum and chemical industries this book is also a valuable resource for research and development teams safety engineers corrosion specialists and researchers in chemical engineering engineering and materials science

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