

# Valve Selection Guide

## Isolation Ball Valves, ASME B16.34



### RSVP

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



### 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



### 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



### 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



### 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



### G-Series

General service drain and vent

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



### SG-3 Piece

Flexibility of in-line repair

- ASME 1500 – 4500 Class
- 2 to 24 inch (50 to 600 DN)
- Uni-directional sealing
- In-line repairable
- 3-piece forged body



### 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 available

### MAX-Series

#### Customized Solutions

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 optimum solution for combining process functions, reducing required space, and diverting or isolating flow within a single valve body. Metal-to-metal sealing gives dependable, repeatable isolation at high temperature, high pressure and acidic/alkaline process streams.

# Ball Valve Trim Selection Guide

**Swapan Basu,Ajay Kumar Debnath**

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

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 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.

**Power Plant Instrumentation and Control Handbook** Swapna 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.

**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 Pipeline Rules of Thumb Handbook continues to set the standard by which all others are judged. The 7th edition features over 30% new and updated sections reflecting the exponential changes in the codes construction and equipment since the sixth edition. The seventh edition includes

recommended drill sizes for self tapping screws new ASTM standard reinforcing bars calculations for calculating grounding resistance national Electrical Code tables Corilis meters pump seals progressive cavity pumps and accumulators for lubricating systems Shortcuts for pipeline construction design and engineering Calculations methods and handy formulas Turnkey solutions to the most vexing pipeline problems British Instruments Directory and Buyers' Guide ,1964

*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 contracts valve and actuator types to ensure the right equipment is chosen for the right application and properly maintained

**Products List Circular [opportunities for Small Businesses]** United States. Small Business Administration,1960 Handbook of Valves, Piping, and Pipelines Ronald Horace Warring,1982 **Chemical Engineering Equipment Buyers' Guide** ,1992 **Power Engineering** ,1986 **Lyons' Valve Designer's Handbook** Jerry L. Lyons,1982 **Piping Systems, Drafting and Design** Louis Gary Lamit,1981 Process Engineering ,1990

**Davison's Textile Catalog and Buyers' Guide** ,1936 The Chemical Engineering Guide to Valves Richard Greene,1984 Mechanical Engineering ,1985 Power Plant Engineering ,1961 Actual Specifying Engineer ,1974

**Process Analyzer Sample-Conditioning System Technology** Robert E. Sherman,2002-01-11 Sampling systems are one part chemistry one part engineering electrical chemical mechanical civil and maybe even software No one person possesses all of the knowledge required Bob Sherman comes as close as anyone John A Crandall V P Sales Americas ABB Process Analytics This resource provides both novice and experienced technologist with the technical background necessary to choose sample conditioning system components that will allow the process analyzer system to function reliably with minimal maintenance The conditioned process sample presented to the process analyzer should be of similar quality to the calibration material used to zero and span the analyzer Filling a long standing void in the process field this book addresses the system concept of Process Analyzer Sample Conditioning Technology in light of the critical importance of delivering a representative sample of the process stream to the process analyzer Offering detailed descriptions of the equipment necessary to prepare process samples and listings of two or more vendors when available for equipment reviewed Process Analyzer Sample Conditioning System Technology discusses The importance of a truly representative sample Sample probes transfer lines coolers and pumps Sample transfer flow calculations for sizing of lines and system components Particulate

filters gas liquid and liquid liquid separation devices Sample pressure measurement and control Enclosures and walk in shelters their electrical hazard ratings and climate control systems With extensive system and component examples including what worked and what didn't Process Analyzer Sample Conditioning System Technology gives the new technologist a basic source of design parameters and performance proven components as well as providing the experienced professional with a valuable reference resource to complement his or her experience      *Plant Engineering* ,1962      **Handbook of Industrial Pipework Engineering** Ernest Holmes,1974

## **Ball Valve Trim Selection Guide** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Ball Valve Trim Selection Guide**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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$$\frac{d}{dx} \left( \frac{f(x)}{g(x)} \right) = \frac{f'(x)g(x) - f(x)g'(x)}{g(x)^2}$$

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web we can calculate this answer in steps we start with differentiating in terms of the left most variable in  $xxyz$  so here we start by taking the derivative with respect to  $x$  first  $f_x 4\cos 4x yz$  then  $f_{xx} 16\sin 4x yz$   $f_{xy} 16z\cos 4x yz$  finally  $f_{xyz} 16\cos 4x yz 16yz\sin 4x yz$

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