

CONTROL VALVE – SELECTION

Control Valve – Selection Guidelines

Features & Applications	Ball: Conventional	Ball: Characterised	Butterfly: Conventional	Butterfly: High Performance	Globe	Globe: Angle	Plug: Conventional
Characteristics	F	G	P	FG	E	E	Plug: Conventional
Corrosive Service	E	E	G	G	GE	GE	GE
High Pressure Drop (Over 200 psi)	A	A	NA	A	G	E	A
High Temperature (Over 500 F)	Y	S	E	G	Y	Y	S
Leakage (ANSI Class)	V	IV	I	IV	IV	IV	IV
Liquids							
Abrasive Service	C	C	NA	NA	G	E	FG
Cavitation Resistance	L	L	L	L	H	H	L
Dirty Service	G	G	G	G	FG	G	GE
Flashing Applications	P	P	F	F	G	E	P
Slurry including Fibrous Service	G	G	F	F	FG	GE	G
Viscose Service	G	G	G	G	G	GE	G
Abrasive, Erosive, Gas / Vapour	C	C	F	F	G	E	FG

Valve Selection Guidelines

Karan Sotoodeh



Valve Selection Guidelines:

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 tempera ture 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 tempera ture 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 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

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 R. W. Zappe, 1981

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

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 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 **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 **The Chemical Engineering Guide to Valves** Richard Greene,1984 Control Valves for the Chemical Process Industries Bill Fitzgerald,William Vincent Fitzgerald,1995 This text reviews the types design and usage of control valves in the process industries It also discusses factors such as sizing materials construction the type of chemical flowing through the valve and maintenance Technologies that affect the usage of valves are also considered **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 Valves, Piping & Pipelines Handbook ,1986 **The Valve Buyer's Guide** ,1991 *Paper Trade Journal* ,1938-07 **Textile World** ,1919 **Heating, Ventilating, Air Conditioning Guide** ,1925 "Code of Massachusetts regulations, 1995" ,1995 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 *Pulp and Paper Magazine of Canada* ,1920 **American Society of Heating and Ventilating Engineers Guide** American Society of Heating and Air-Conditioning Engineers,1923

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