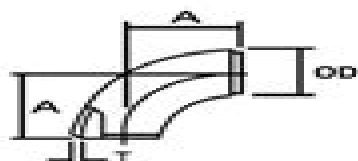




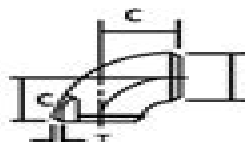
ASTM A234 WPB Carbon Steel Fittings Dimensions



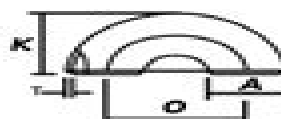
90° Elbow
long radius



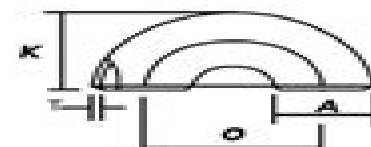
45° Elbow



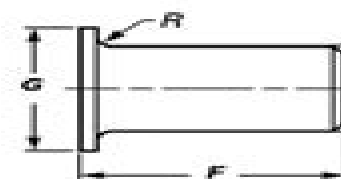
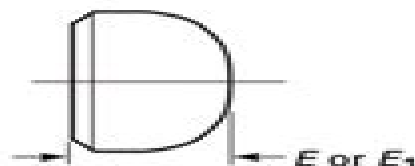
90° Elbow
short radius



180° Return Bend
short radius



180° Return Bend
long radius



Nominal size		OD	Elbows			Returns				Caps	Reducers Note 1	Stub Ends			
			Long		Short	Long		Short				Long	Short	Radius of Fillet	Diam of Lap
			90 deg	45 deg	90 deg										
DN	NPS	D	A	B	A	O	K	O	K	E	H	F	F	R	G
15	1/2	21.3	38	16		76	48			25		76	51	3	35
20	3/4	26.7	38	19		76	51			25	38	76	51	3	43
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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the American National Standards Institute text.

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the answers when piping questions are on the table the field is just too broad That s why even the most experienced engineers turn to Piping Handbook edited by Mohinder L Nayyar with contribution from top experts in the field The Handbook s 43 chapters 14 of them new to this edition and 9 new appendices provide in one place everything you need to work with any type of piping in any type of piping system design layout selection of materials fabrication and components operation installation maintenance This world class reference is packed with a comprehensive array of analytical tools and illustrated with fully worked out examples and case histories Thoroughly updated this seventh edition features revised and new information on design practices materials practical applications and industry codes and standards plus every calculation you need to do the job

Ludwig's Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents A. Kayode Coker, 2024-06-08 Ludwig s Applied Process Design for Chemical and Petrochemical Plants Incorporating Process Safety Incidents Fifth Edition Volume One is ever evolving and provides improved techniques and fundamental design methodologies to guide the practicing engineer in designing process equipment and applying chemical processes to properly detailed hardware Like its predecessor this new edition continues to present updated information for achieving optimum operational and process conditions and avoiding problems caused by 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

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Introduction to Piping Fitters and Welders Ram Babu Sao,2025-03-28 It gives me great pleasure and sense of deep satisfaction to publish this book of Introduction to Piping Fitters and Welders You can learn how to make a proper pipe joint for welding or how to Weld pipe pipe supports and steel structures and teach yourself to be a master of the fitter s or welder s craft with the step by step instructions learning tools and equipment A pipe fitter and welder are the tradesperson who install assemble fabricate maintain and repair mechanical piping systems Pipe fitters usually begin as helpers or apprentices A pipe fitter and welder deal with industrial commercial marine piping and heating cooling systems Typical industrial process pipe is under high pressure which requires metals such as carbon steel stainless steel and many different alloy metals fused

together through precise cutting threading grooving bending and welding Pipe fitter and welder plan and test piping and tubing layouts cut bend or fabricate pipe or tubing segments and join those segments by threading them using lead joints welding brazing cementing or soldering them together They install manual pneumatic hydraulic and electric valves in pipes to control the flow through the pipes or tubes These workers create the system of tubes in boilers and make holes in walls and bulkheads to accommodate the passage of the pipes they install Pipe fitter and welder are often exposed to hazardous or dangerous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling Other occupational hazards include exposure to the weather heavy lifting crushing hazards lacerations and other risks normal to the construction industry This book has proved to be a friend and guide to many Pipe Fitters or Welders Contractors and Technicians working with any Construction or Consultants Companies who are responsible for Laying out assembling or installation of piping systems pipe supports applying their knowledge of construction experience following blueprints and select type and size of pipe related materials and equipment such as supports hangers and hydraulic cylinders according to piping drawings and specifications Fitter and Welder are the main technical professionals who is responsible to deliver the quality job of piping work and they should have sufficient knowledge of Piping Engineering subject This will result in improving the general quality levels of a Pipe Fitter Welder in this direction leading to a greater satisfaction in work This book is taking a lead in upgrading the awareness knowledge of various matters related with piping work benefiting Pipe Fitters and Welders working in the field of piping work The total practical approach of this book explodes the statistical data on mathematics physics chemistry and engineering that even the piping engineering subject is tough and difficult to understand a general reader or beginners willing to know about the subject will find the content very easy and simple to follow I hope that the excellence of this book will be appreciated by the readers from all parts of India and abroad

Introduction to Piping Engineering RAM BABU SAO, 2025-03-23 It gives me great pleasure and sense of deep satisfaction to publish this book of Introduction to Piping Engineering You can learn how to design material selection and testing fabrication erection construction inspections and quality control of pipe along with weld joints detail joint preparation pipe cutting joints fit up welding of pipe pipe supports and steel structural platforms fabrication and installation etc and teach yourself to be a master of the process piping construction with the step by step instructions and quality control It provides all the information about tools and equipments being used in the piping construction work An engineer is the tradesperson who is busy in fabrication installation assembly testing maintenance and repair of process piping systems Fresh Piping engineer usually begins as apprentices and deals with industrial commercial marine piping and process piping systems Typical industrial process pipe works under high pressure and temperature and requires metals such

as carbon steel stainless steel alloy steel cupronical and many different alloying metals fused together through precise cutting threading grooving bending and welding Piping engineer plan and test piping and tubing layouts cut bend or fabricated pipe or tubing segments and joints of those segments by threading welding brazing cementing or soldering them together They check the installation of manual pneumatic hydraulic and electric operated valves on pipes to control the flow through the pipes or tubes They carry out testing and inspection of the piping system Piping engineers are often exposed to hazardous or dangerous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling Other occupational hazards include exposure to the weather heavy lifting crushing hazards lacerations and other risks normal to the construction industry This book has proved to be a friend and guide to many Piping engineer Contractors and Technicians working with any Construction or Consultants Companies who are responsible for Laying out assembling or installation of piping systems pipe supports applying their knowledge of construction experience following blueprints and select the type and size of pipe related materials and equipment such as supports hangers and hydraulic cylinders according to piping drawings and specifications Piping engineers are the main technical professionals who are responsible to deliver the quality job of piping work and they should have sufficient knowledge of Piping Engineering subject This will result in improving the general quality levels of a Piping engineer in this direction leading to a greater satisfaction in work This book is taking a lead in upgrading the awareness knowledge of various matters related with piping work benefiting Piping engineers working in the field of piping work The total practical approach of this book explodes the statistical data on mathematics physics chemistry and engineering that even the piping engineering subject is tough and difficult to understand a general reader or beginners willing to know about the subject will find the content very easy and simple to follow I hope that the excellence of this book will be appreciated by the readers from all parts of India and abroad

Introduction to Knowledge of Piping Engineering Ram Babu Sao, It gives me great pleasure and a sense of deep satisfaction to publish this book Introduction to Knowledge of Piping Engineering You can learn how to design material selection and test fabrication erect construct inspections and quality control pipe along with weld joints detail joint preparation pipe cutting joints fit up welding of pipe pipe supports and steel structural platforms fabrication and installation etc and teach yourself to be a master of the process piping construction with the step by step instructions and quality control It provides all the information about tools and types of equipment being used in the piping construction work An engineer is a tradesperson who is busy in the fabrication installation assembly testing maintenance and repair of process piping systems Fresh Piping engineer usually begins as apprentices and deal with industrial commercial marine piping and process piping systems Typical industrial process pipe works under high pressure and temperature and

requires metals such as carbon steel stainless steel alloy steel cupronickel and many different alloying metals fused through precise cutting threading grooving bending and welding Piping engineers plan and test piping and tubing layouts cut bend or fabricate pipe or tubing segments and joints of those segments by threading welding brazing cementing or soldering them together They check the installation of manual pneumatic hydraulic and electric operated valves on pipes to control the flow through the pipes or tubes They do testing and inspection of the piping system Piping engineers are often exposed to hazardous materials such as asbestos lead ammonia steam flammable gases various resins and solvents including benzene and various refrigerants Much progress was made in the 20th century toward eliminating or reducing hazardous materials exposures Many aspects of hazardous materials are now regulated by law in most countries including asbestos usage and removal and refrigerant selection and handling *API Recommended Practice* American Petroleum Institute. Production Dept,1991 *USA Standards* American National Standards Institute,1978 Piping Handbook James Herbert Walker,Sabin Crocker,1945

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