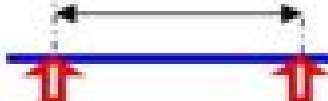
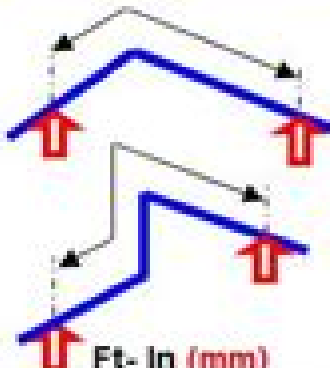
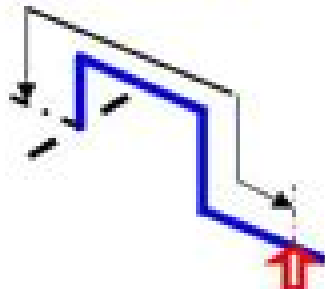


# ALLOWABLE PIPING SPANS

Based on using carbon steel pipe (A53-GR B) filled with water

Spans are based on insulated and uninsulated lines below 650 Deg. F

Nom. Pipe Size	Pipe Sch.	Wall Thickness Inches					
			Allowable Span	Deflection	Ft- In (mm)	Ft- In (mm)	
3/4"	80	0.154	10'-0" (3048)	3/8" (10)	7'-0" (2134)	8'-0" (2438)	
1"	80	0.179	13'-0" (3962)	1/2" (13)	9'-0" (2743)	10'-0" (3048)	
1-1/2"	80	0.200	17'-0" (5182)	3/4" (19)	11'-0" (3353)	13'-0" (3962)	
2"	40	0.154	19'-0" (5791)	1" (25)	12'-0" (3658)	14'-0" (4267)	
2"	80	0.218	20'-0" (6096)	1" (25)	13'-0" (3962)	15'-0" (4572)	
3"	40	0.216	25'-0" (7620)	1" (25)	16'-0" (4877)	18'-0" (5486)	
4"	40	0.237	27'-0" (8230)	1" (25)	18'-0" (5486)	20'-0" (6096)	
6"	40	0.280	33'-0" (10058)	1" (25)	22'-0" (6706)	25'-0" (7620)	
8"	30	0.277	36'-0" (10973)	1" (25)	24'-0" (7315)	27'-0" (8230)	
10"	20	0.250	38'-0" (11582)	1" (25)	25'-0" (7620)	29'-0" (8839)	
10"	40	0.365	41'-0" (12497)	1" (25)	27'-0" (8230)	31'-0" (9449)	
12"	20	0.250	40'-0" (12192)	1" (25)	26'-0" (7925)	30'-0" (9144)	
12"	Std	0.375	44'-0" (13411)	1" (25)	29'-0" (8839)	33'-0" (10058)	
14"	10	0.250	42'-0" (12802)	1" (25)	27'-0" (8230)	31'-0" (9449)	
14"	Std	0.375	46'-0" (14021)	1" (25)	30'-0" (9144)	34'-0" (10363)	
16"	10	0.250	44'-0" (13411)	1" (25)	28'-0" (8534)	33'-0" (10058)	
16"	Std	0.375	48'-0" (14630)	1" (25)	31'-0" (9449)	36'-0" (10973)	
18"	10	0.250	45'-0" (13716)	1" (25)	29'-0" (8839)	34'-0" (10363)	
18"	Std	0.375	50'-0" (15240)	1" (25)	33'-0" (10058)	38'-0" (11582)	
20"	10	0.250	47'-0" (14326)	1" (25)	31'-0" (9449)	36'-0" (10973)	
20"	20	0.375	52'-0" (15850)	1" (25)	34'-0" (10363)	39'-0" (11887)	
24"	10	0.250	49'-0" (14935)	1" (25)	32'-0" (9754)	37'-0" (11278)	
24"	20	0.375	55'-0" (16764)	1" (25)	36'-0" (10973)	41'-0" (12497)	

# Maximum Distance Between Guide Pipe Supports

**J. Paul Guyer, P.E., R.A.**



## **Maximum Distance Between Guide Pipe Supports:**

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*Pipeline Accident Report* , **Air Conditioning, Heating and Ventilating** ,1959 An Introduction to Double Containment and Lined Process Piping J. Paul Guyer, P.E., R.A., 2018-02-10 Introductory technical guidance for mechanical engineers interested in double containment and lined liquid process piping Here is what is discussed 1 DOUBLE CONTAINMENT PIPING SYSTEMS 2 LINED PIPING SYSTEMS 3 FLUID MATERIAL MATRIX 4 REFERENCES *Piping Design Handbook* John J. McKetta Jr, 1992-01-29 This encyclopedic volume covers almost every phase of piping design presenting procedures in a straightforward way Written by 82 world experts in the field the Piping Design Handbook details the basic principles of piping design explores pipeline shortcut methods in an in depth manner and presents expanded rules of thumb for the piping design *Handbook of Double Containment Piping Systems* Christopher Ziu, 1995 Huge Treasury of Double Containment Piping Data Handbook of Double Containment Piping Systems by Christopher G Ziu arms you with all the data you need for designing and planning virtually every type of double containment system with complete confidence Packed with the latest concepts engineering issues and rules of design and installation it takes you step by step through construction of both under and aboveground systems serving up plenty of real world examples and highly detailed illustrations so you can ensure optimal performance under even the harshest conditions You ll have everything you need for layout thermal expansion and structural considerations fabrication assembly and erection leak detection inspection examination and testing trenchless reconstruction and alternatives to double containment piping associated storage tanks and pressure vessels fluid dynamics and sizing criteria design of primary metallic nonmetallic and secondary containment components system selection materials heat transfer Corrosion-Resistant Piping Systems P.E. Schweitzer, 2024-11-01 This work presents a step by step procedure for determining the most suitable piping material for any given situation It describes all corrosion resistant piping systems including thermoset and thermoplastic lined and metallic systems and miscellaneous systems such as glass carbon and clay A compatibility table for each piping system compiling the corrosion resistance of over 175 common corrodents is provided **Plumber's Exam Preparation Guide** Howard C. Massey, 1985 Hundreds of questions and answers to help you pass the apprentice journeyman or master plumber s exam Questions are in the style of the actual exam The best way to prepare yourself for examination day *An Introduction to Liquid Process Piping* J. Paul Guyer, P.E., R.A., 2019-09-23 Introductory technical guidance for mechanical engineers construction managers

and plant managers interested in liquid process piping systems design and construction Here is what is discussed 1 GENERAL CONSIDERATIONS 2 DOUBLE CONTAINMENT AND LINED PIPING 3 METALLIC PIPING 4 PLASTIC PIPING 5 RUBBER ELASTOMER AND THERMOSET PIPING *Proceedings of The 20th Pacific Basin Nuclear Conference* Hong Jiang,2017-01-10 This is the first in a series of three proceedings of the 20th Pacific Basin Nuclear Conference PBNC This volume covers the topics of Safety and Security Public Acceptance and Nuclear Education as well as Economics and Reducing Cost As one in the most important and influential conference series of nuclear science and technology the 20th PBNC was held in Beijing and the theme of this meeting was Nuclear Powering the Development of the Pacific Basin and the World It brought together outstanding nuclear scientist and technical experts senior industry executives senior government officials and international energy organization leaders from all across the world The book is not only a good summary of the new developments in the field but also a useful guideline for the researchers engineers and graduate students **Black & Decker The Complete Guide to Walls & Ceilings** Editors of Cool Springs Press,2015-09-15 Retain structural integrity and save time as you knock out walls and build new ones This guide is up to date on all codes and safety regulations Lectures in Computational and Experimental Mechanics Abdul Hadi Azman, Ahmad Muhammad Aziz, Amir Zaki Mubarak, Asfarina Seharing, Audi Azri, Dzuraidah Abd Wahab, Edwar Iswardy, Hiyam Adil Habeeb, Husaini, Intan Fadhlina Mohamed, Intan Shamimi Muhammad Shahrir, Irwansyah, Mohd Rizal Alkahari, Mohd Zaidi Omar, Muhammad Dirhamsyah, Muhammad Ridwan Andi Purnomo, Noorhelyna Razali, Norinsan Kamil Othman, Novrianty Rizky, Nurdin Ali, Nuzul Qadria, T. Nanta Aulia, Tan Khai Liang, Teuku Edisah Putra, Zainuddin Sajuri, Zenji Horita,2023-04-05 Computational and experimental mechanics are approaches frequently used in the design and assessment of the material behaviour and the mechanical performance of structures These approaches can be used to determine the physical properties of materials and the response of structures to loads which is carried out through stress analysis and measurements of deformation shape and strain This book collects new scientific articles that contribute to the development of new computational and experimental methods bridging the gap between the fields of modelling simulation and experiments of materials and structures with a particular focus on Fatigue Design Computational Fracture Mechanics Structural Durability Reliability and Additive Manufacturing **Black & Decker Complete Guide to Bathrooms 5th Edition** Editors of Cool Springs Press,2018-05-29 BLACK DECKER Complete Guide to Bathrooms brings you design advice how to instructions and all the facts you need to achieve the bathroom of your dreams on your own This fifth edition of the perennial bestseller from the BLACK DECKER Complete Guide series covers all the bases when it comes to bathroom remodeling From freshening up decor to a down to the studs remodel all of the information you need to design the job and do the work yourself is right here Through step by step photography and instructions you ll see how to update lighting ventilation flooring surfaces cabinetry toilets bathtubs and accessories This comprehensive buyer s guide takes you through one of the most important steps in any remodeling project and a complete

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Lloyd's Register OneOcean's Guide to Port Entry 1995-96 Latvia-Zaire Lloyd's Register Foundation, 1995-01-01 First published in 1971 these Guides provide invaluable information on thousands of commercial ports and terminals across the globe They are compiled and published annually by LR OneOcean whose years of global maritime experience allows them to provide expert and innovative solutions that enhance efficiency sustainability and overall industry success The Guides cover a significant geographical breadth and the most recent volume includes information on over 12 500 ports harbours and terminals worldwide These are fully indexed and contain detailed port plans and mooring diagrams

Companion Guide to the ASME Boiler & Pressure Vessel Code K. R. Rao, 2006 This is Volume 1 of the fully revised second edition Organized to provide the technical professional with ready access to practical solutions this revised three volume 2 100 page second edition brings to life essential ASME Codes with authoritative commentary examples explanatory text tables graphics references and annotated bibliographic notes This new edition has been fully updated to the current 2004 Code except where specifically noted in the text Gaining insights from the 78 contributors with professional expertise in the full range of pressure vessel and piping technologies you find answers to

your questions concerning the twelve sections of the ASME Boiler and Pressure Vessel Code as well as the B31 1 and B31 3 Piping Codes In addition you find useful examinations of special topics including rules for accreditation and certification perspective on cyclic impact and dynamic loads functionality and operability criteria fluids pipe vibration stress intensification factors stress indices and flexibility factors code design and evaluation for cyclic loading and bolted flange joints and connections

**Encyclopedia of Chemical Processing and Design** John J. McKetta Jr,1991-03-21 Written by engineers for engineers with over 150 International Editorial Advisory Board members this highly lauded resource provides up to the minute information on the chemical processes methods practices products and standards in the chemical and related industries

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 Lees' Loss Prevention in the Process Industries Frank Lees,2005-01-10 Over the last three decades the process industries have grown very rapidly with corresponding increases in the quantities of hazardous materials in process storage or transport Plants have become larger and are often situated in or close to densely populated areas Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough Bhopal Chernobyl Three Mile Island the Phillips 66 incident and Piper Alpha to name but a few The field of Loss Prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world because of the trend for processing plants to become larger and often be situated in or close to densely populated areas thus increasing the hazard of loss of life or property This book is a detailed guidebook to defending against these and many other hazards It could without exaggeration be referred to as the bible for the process industries This is THE standard reference work for chemical and process engineering safety professionals For years it has been the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing reference instead Frank Lees world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world s chief experts in this field Sam Mannan is professor of chemical engineering at Texas A principles practice codes standards data and references needed by those practicing in the field **Mitigation of Gas Pipeline Integrity Problems** Mavis Sika Okyere,2020-10-04 Mitigation of Gas Pipeline Integrity Problems presents the methodology to enable engineers experienced or not to alleviate pipeline integrity problems during operation It explains the principal considerations and establishes a common approach in tackling technical challenges that may arise during gas production Covers third party damage corrosion geotechnical hazards stress corrosion cracking off spec sales gas improper design or material selection as built flaws improper operations and leak and break detection Details various hazard mitigation options Offers tested concepts of pipeline integrity blended with recent research results documented in a scholarly fashion to make it simple to the average reader This practical work serves the needs of advanced students researchers and professionals working in pipeline engineering and petrochemical industries

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