

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)	

Pipe Guide Span Chart

Lingsheng Yao



Pipe Guide Span Chart:

The Engineer's Guide to Plant Layout and Piping Design for the Oil and Gas Industries Geoff B. Barker, 2017-11-25 The Engineer's Guide to Plant Layout and Piping Design for the Oil and Gas Industries gives pipeline engineers and plant managers a critical real world reference to design manage and implement safe and effective plants and piping systems for today's operations This book fills a training void with complete and practical understanding of the requirements and procedures for producing a safe economical operable and maintainable process facility Easy to understand for the novice this guide includes critical standards newer designs practical checklists and rules of thumb Due to a lack of structured training in academic and technical institutions engineers and pipe designers today may understand various computer software programs but lack the fundamental understanding and implementation of how to lay out process plants and run piping correctly in the oil and gas industry Starting with basic terms codes and basis for selection the book focuses on each piece of equipment such as pumps towers underground piping pipe sizes and supports then goes on to cover piping stress analysis and the daily needed calculations to use on the job Delivers a practical guide to pipe supports structures and hangers available in one go to source Includes information on stress analysis basics quick checks pipe sizing and pressure drop Ensures compliance with the latest piping and plant layout codes and complies with worldwide risk management legislation and HSE Focuses on each piece of equipment such as pumps towers underground piping pipe sizes and supports Covers piping stress analysis and the daily needed calculations to use on the job

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Process Plant Layout and Piping Design Ed Bausbacher, Roger W. Hunt, 1993 For mechanical and chemical engineers working for engineering construction as well as process manufacturing companies with responsibility for plant layout piping and construction and for engineering students Based on the authors collective 65 years of experience in the engineering construction industry this profusely illustrated comprehensive guidebook

presents tried and true workable methods and rules of thumb for plant layout and piping design for the process industries Content is organized and presented for quick reference on the job or for systematic study of specific topics KEY TOPICS Presents general concepts and principles of plant layout from basic terminology and input requirements to deliverables deals with specific pieces of equipment and their most efficient layout in the overall plant design configuration addresses the plant layout requirements for the most common process unit equipment and considers the computerized tools that are now available to help plant layout and piping designers

The Planning Guide to Piping Design Richard Beale,Paul Bowers,2017-10-22 The Planning Guide to Piping Design Second Edition covers the entire process of managing and executing project piping designs from conceptual to mechanical completion also explaining what roles and responsibilities are required of the piping lead during the process The book explains proven piping design methods in step by step processes that cover the increasing use of new technologies and software Extended coverage is provided for the piping lead to manage piping design activities which include supervising planning scheduling evaluating manpower monitoring progress and communicating the piping design With newly revised chapters and the addition of a chapter on CAD software the book provides the mentorship for piping leads engineers and designers to grasp the requirements of piping supervision in the modern age Provides essential standards specifications and checklists and their importance in the initial set up phase of piping project s execution Explains and provides real world examples of key procedures that the piping lead can use to monitor progress Describes project deliverables for both small and complex size projects Offers newly revised chapters including a new chapter on CAD software

Roadside Design Guide American Association of State Highway and Transportation Officials. Task Force for Roadside Safety,2011 The Roadside Design Guide presents a synthesis of current information and operating practices related to roadside safety and is written in dual units metric and U S Customary This book is a guide It is not a standard nor is it a design policy It is intended to use as a resource document from which individual highway agencies can develop standards and policies Although much of the material in the guide can be considered universal in its application several recommendations are subjective in nature and may need modification to fit local conditions However it is important that significant deviations from the guide be based on operational experience and objective analysis The 2011 edition of the AASHTO Roadside Design Guide has been updated to include hardware that has met the evaluation criteria contained in the National Cooperative Highway Research Program NCHRP Report 350 Recommended Procedures for the Safety Performance Evaluation of Highway Features and begins to detail the most current evaluation criteria contained under the Manual for Assessing Safety Hardware 2009 MASH For the most part roadside hardware tested and accepted under older guidelines that are no longer applicable has not been excluded in this edition AASHTO website

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Mechanical Engineering ,1921

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