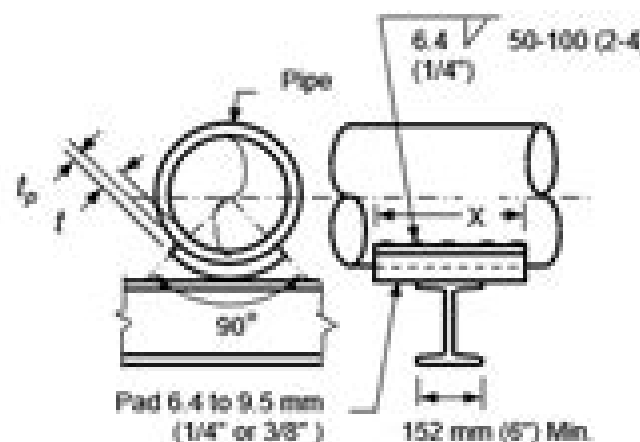


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
22	Min. thk. of pipe or tube, $t = T_{nom} - (T_{nom} * Mill \%) - A - h$ 0.2818 inch (7.2 mm)																	
23	Weight of pipe or tube per unit length, $W_p = P_{den} * A_m * (12 \text{ if Imperial, or } 0.000001 \text{ if metric units})$ $W_p = 28.2/3$ lbs / ft (42.64 kg / m)																	
24	Insulation: CaSi			Density, $T_{ins} = 11 \text{ lbs / ft}^3$ (176.2 kg / m ³)										Thickness, $T_i = 3$ inch (76.2 mm)				
25	Weight of insulation per unit length (w/ factor 1.12 for lagging), $W_i = 1.12 * A_i * T_{ins} / (12^2 \text{ if Imperial units, or } 1000^2 \text{ if metric units})$ $W_i = 9.3737$ lbs / ft (13.95 kg / m)																	
26																		
27	Liner on ID: none			Density, $L_{den} = \dots$										Thickness, $T_r = 0$ inch (0 mm)				
28	Weight of liner per unit length, $W_r = L_{den} * A_r * (12 \text{ if Imperial, or } 0.000001 \text{ if metric units})$ $W_r = 0$ lbs / ft (0 kg / m)																	
29	Ice Thickness (externally), $T_{ice} 0$ inch (0 mm)																	
30	Weight of ice (external w/ S.G. = 0.9) per unit length, $W_{ice} = 0.9 * A_{ice} * (52.4/12^2 \text{ if Imperial units, or } 0.001 \text{ if metric units})$ $W_{ice} = 0$ lbs / ft (0 kg / m)																	
31																		
32	Weight of concentrated load assumed at center of span (valves + flanges + animal, etc.): $W_c = 100$ lbs (45 kg)																	
33	Reference Dr. Qui Trong, Houston, TX, USA:																	
34	The allowable load at support point can be given by the following:																	
35	$P_A = (S_b * t^{1.5} * b) / (1.8 * R^{0.5})$																	
36	Where:																	
37	P_A = allowable load																	
	S_b = basic allowable stress, hot																	
	t = effective thickness = pipe wall + repad																	
	b = bearing length of pipe on support																	
	R = outside radius of pipe = $D_o / 2$																	
	If the actual load at the support is greater than the allowable load given by the above formula, then a reinforcement pad will be required.																	
																		
38	Typical Arrangement																	
39	Reinforcing Pad Thickness $t_p = 0$ inch (0 mm)																	
40	Bearing Length of Pipe (along the pipe axis, on the support structure): $b = 4$ inch (101.6 mm)																	
41	Length of support span $L_p = 19$ feet (5.79 meters)																	
42	Total weight per unit length, $W = W_p + W_r + W_i + W_{ice}$ (excluding W_c) $W = 60$ lbs / ft (89 kg / m)																	
43	TOTAL WEIGHT AT EACH SUPPORT, $W_s = (W L_p + W_c) / 2$ $W_s = 617$ lbs (280 kg)																	
44	ALLOWABLE LOAD AT EACH SUPPORT POINT, $P_A = (S_b * (t_p + t)^{1.5} * b) / (1.8 * R)$ $P_A = 584$ lbs (265 kg)																	
45	Allowable load of 584 lbs (265 kg) is exceeded.																	

Pipe Support Calculations

John S. Page



Pipe Support Calculations:

Piping and Pipeline Calculations Manual Philip Ellenberger, 2014-01-22 Piping and Pipeline Calculations Manual Second Edition provides engineers and designers with a quick reference guide to calculations codes and standards applicable to piping systems The book considers in one handy reference the multitude of pipes flanges supports gaskets bolts valves strainers flexibles and expansion joints that make up these often complex systems It uses hundreds of calculations and examples based on the author's 40 years of experiences as both an engineer and instructor Each example demonstrates how the code and standard has been correctly and incorrectly applied Aside from advising on the intent of codes and standards the book provides advice on compliance Readers will come away with a clear understanding of how piping systems fail and what the code requires the designer manufacturer fabricator supplier erector examiner inspector and owner to do to prevent such failures The book enhances participants understanding and application of the spirit of the code or standard and form a plan for compliance The book covers American Water Works Association standards where they are applicable Updates to major codes and standards such as ASME B31.1 and B31.2 New methods for calculating stress intensification factor SIF and seismic activities Risk based analysis based on API 579 and B31.8 Covers the Pipeline Safety Act and the creation of PHMSA

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 Coriolis 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

Piping and Pipelines Assessment Guide Keith Escoe, 2006-04-10 Whether it's called fixed equipment at ExxonMobil stationary equipment at Shell or static equipment in Europe this type of equipment is the bread and butter of any process plant Used in the petrochemical industry pharmaceutical industry food processing industry paper industry and the manufacturing process industries stationary equipment must be kept operational and reliable for companies to maintain production and for employees to be safe from accidents This series the most comprehensive of its kind uses real life examples and time tested rules of thumb to guide the mechanical engineer through issues of reliability and fitness for service This volume on piping and pipeline assessment is the only handbook that the mechanical or pipeline engineer needs to assess pipes and pipelines for reliability and fitness for service Provides essential insight to make informed decisions on when to run alter repair monitor or replace equipment How to perform these type of assessments and calculations on pipelines is a hot issue in the petrochemical industry at this time There is very little

information on the market right now for pipers and pipeliners with regard to pipe and pipeline fitness for service **Piping and Pipeline Engineering** George A. Antaki, 2003-05-28 Taking a big picture approach Piping and Pipeline Engineering Design Construction Maintenance Integrity and Repair elucidates the fundamental steps to any successful piping and pipeline engineering project whether it is routine maintenance or a new multi million dollar project The author explores the qualitative details calculations and techniques that are essential in supporting competent decisions He pairs coverage of real world practice with the underlying technical principles in materials design construction inspection testing and maintenance Discover the seven essential principles that will help establish a balance between production cost safety and integrity of piping systems and pipelines The book includes coverage of codes and standards design analysis welding and inspection corrosion mechanisms fitness for service and failure analysis and an overview of valve selection and application It features the technical basis of piping and pipeline code design rules for normal operating conditions and occasional loads and addresses the fundamental principles of materials design fabrication testing and corrosion and their effect on system integrity **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 engineer Generously illustrated with over 1575 figures display equations and tables the Piping Design Handbook is for chemical mechanical process and equipment design engineers

Handbook of Piping Design G. K. Sahu, 1998 This Handbook Provides All Aspects Of Piping Design Starting From Fluid Properties Stress Analysis Construction And Fabrication Details Compensating Methods For Thermal Expansion Erection Etc To Maintenance Of All Pipeworks Whether Underground Or Overhead Carrying Any Fluid Like Water Oil Air Industrial Gases Like Oxygen Nitrogen Acetylene Etc Steam And Slurry All Theories Tables Charts Etc Connected With Fluid Flow Have Also Been Nicely Presented And Explained In Simple And Lucid Manner For Clear Understanding Of The Subject By The User Flexibility And Stress Analysis And Network Analysis Through Computer Fortran Programming With Solved Examples Are Some Of The Unique Features Which Will Provide Tremendous Confidence To The User In Nutshell The Handbook Is Very Comprehensive And Useful To Designers Working In The Field Of Pipework In Steel Plant Fertilizer And Chemical Industries Petroleum Industries Power Plants Public Health Engineering Departments Etc At The Same Time It Is Also Useful To Fresh Engineers Joining Industries For Improving Their Knowledge In The Field Of Fluid Transportation And Pipework

Onshore Structural Design Calculations Mohamed A. El-Reedy, 2016-10-14 Onshore Structural Design Calculations Energy Processing Facilities provides structural engineers and designers with the necessary calculations and advanced computer software program instruction for creating effective design solutions using structural steel and concrete also helping users comply with the myriad of international codes and standards for designing structures that is required to house

or transport the material being processed In addition the book includes the design construction and installation of structural systems such as distillation towers heaters compressors pumps fans and building structures as well as pipe racks and mechanical and electrical equipment platform structures Each calculation is discussed in a concise easy to understand manner that provides an authoritative guide for selecting the right formula and solving even the most difficult design calculation Provides information on the analysis and design of steel concrete wood and masonry building structures and components Presents the necessary international codes and calculations for the construction and the installation of systems Covers steel and concrete structures design in industrial projects such as oil and gas plants refinery petrochemical and power generation projects in addition to general industrial projects

Pipeline Risk Management Manual W. Kent Muhlbauer, 2004 Here s the ideal tool if you re looking for a flexible straightforward analysis system for your everyday design and operations decisions This new third edition includes sections on stations geographical information systems absolute versus relative risks and the latest regulatory developments From design to day to day operations and maintenance this unique volume covers every facet of pipeline risk management arguably the most important definitely the most hotly debated aspect of pipelining today Now expanded and updated this widely accepted standard reference guides you in managing the risks involved in pipeline operations You ll also find ways to create a resource allocation model by linking risk with cost and customize the risk assessment technique to your specific requirements The clear step by step instructions and more than 50 examples make it easy This edition has been expanded to include offshore pipelines and distribution system pipelines as well as cross country liquid and gas transmission pipelines The only comprehensive manual for pipeline risk management Updated material on stations geographical information systems absolute versus relative risks and the latest regulatory developments Set the standards for global pipeline risk management

Estimator's Piping Man-Hour Manual John S. Page, 1999-05-24 This reference provides reliable piping estimating data including installation of pneumatic mechanical instrumentation used in monitoring various process systems This new edition has been expanded and updated to include installation of pneumatic mechanical instrumentation which is used in monitoring various process systems

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