

VELOCITY AND FRICTION LOSS CHARACTERISTICS

PVC CLASS 200 PIPE

C = 150 (1120, 1220 SDR 21)
 psi loss per 100 feet of pipe
 sizes 3/4" to 6" with flow from 1 to 600 GPM

Size	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"
C/D	1.050	1.315	1.660	1.900	2.375	2.675	3.500	4.500	6.625
Q3	0.930	1.189	1.500	1.700	2.149	2.401	3.166	4.072	5.950
Vel. Ft.	0.000	0.000	0.029	0.050	0.113	0.137	0.167	0.216	0.316

Flow GPM	Velocity fpm	psi Loss	Velocity fpm	psi Loss	Velocity fpm	psi Loss	Velocity fpm	psi Loss	Velocity fpm	psi Loss	Velocity fpm	psi Loss	Velocity fpm	psi Loss	Velocity fpm	psi Loss	Velocity fpm	psi Loss
1	0.47	0.06	0.79	0.02	0.18	0.01	0.54	0.00	0.09	0.00								
2	0.94	0.22	0.58	0.07	0.36	0.02	0.18	0.00	0.12	0.00								
3	1.42	0.46	0.87	0.14	0.54	0.04	0.41	0.02	0.27	0.01								
4	1.89	0.79	1.15	0.24	0.72	0.08	0.55	0.04	0.36	0.01								
5	2.36	1.19	1.44	0.38	0.90	0.12	0.68	0.06	0.44	0.02								
6	2.83	1.63	1.73	0.51	1.09	0.16	0.83	0.09	0.53	0.03								
7	3.30	2.13	2.02	0.67	1.27	0.22	0.97	0.11	0.62	0.04								
8	3.77	2.69	2.31	0.86	1.45	0.29	1.10	0.14	0.71	0.05								
9	4.25	3.35	2.60	1.07	1.63	0.34	1.24	0.18	0.80	0.06								
10	4.72	4.11	2.89	1.30	1.81	0.42	1.38	0.22	0.88	0.07								
11	5.19	4.94	3.17	1.56	1.99	0.50	1.52	0.26	0.97	0.08								
12	5.66	5.84	3.46	1.83	2.17	0.59	1.65	0.30	1.06	0.10								
14	6.60	8.04	4.04	2.43	2.53	0.78	1.93	0.40	1.24	0.14								
16	7.55	10.29	4.62	3.11	2.89	1.00	2.21	0.52	1.41	0.17								
18	8.49	12.60	5.19	3.87	3.26	1.24	2.48	0.64	1.59	0.22								
20	9.43	15.04	5.77	4.71	3.62	1.51	2.76	0.78	1.77	0.26								
22	10.38	17.64	6.35	5.62	3.99	1.80	3.03	0.93	1.94	0.32								
24	11.32	20.41	6.93	6.60	4.34	2.12	3.31	1.09	2.12	0.37								
26	12.27	23.29	7.50	7.66	4.70	2.43	3.59	1.27	2.30	0.43								
28	13.21	26.21	8.08	8.79	5.06	2.82	3.86	1.46	2.47	0.49								
30	14.15	29.26	8.66	9.97	5.43	3.20	4.14	1.65	2.65	0.56								
32	15.10	32.46	9.24	11.27	5.80	3.59	4.42	1.85	2.83	0.64								
34	16.05	35.80	9.82	12.64	6.17	3.98	4.70	2.05	3.01	0.71								
36	17.00	39.28	10.40	14.08	6.54	4.38	4.98	2.25	3.19	0.78								
38	17.95	42.80	10.98	15.57	6.91	4.78	5.26	2.45	3.37	0.85								
40	18.90	46.36	11.56	17.11	7.28	5.18	5.54	2.65	3.55	0.92								
42	19.85	50.00	12.14	18.70	7.65	5.58	5.82	2.85	3.73	0.99								
44	20.80	53.68	12.72	20.34	8.02	5.98	6.10	3.05	3.91	1.06								
46	21.75	57.40	13.30	22.03	8.39	6.38	6.38	3.25	4.09	1.13								
48	22.70	61.16	13.88	23.77	8.76	6.78	6.66	3.45	4.27	1.20								
50	23.65	65.00	14.46	25.56	9.13	7.18	6.94	3.65	4.45	1.27								
52	24.60	68.88	15.04	27.40	9.50	7.58	7.22	3.85	4.63	1.34								
54	25.55	72.80	15.62	29.29	9.87	7.98	7.50	4.05	4.81	1.41								
56	26.50	76.80	16.20	31.23	10.24	8.38	7.78	4.25	5.00	1.48								
58	27.45	80.80	16.78	33.22	10.61	8.78	8.06	4.45	5.18	1.55								
60	28.40	84.80	17.36	35.26	11.00	9.18	8.34	4.65	5.36	1.62								
62	29.35	88.80	17.94	37.34	11.39	9.58	8.62	4.85	5.54	1.69								
64	30.30	92.80	18.52	39.47	11.78	9.98	8.90	5.05	5.72	1.76								
66	31.25	96.80	19.10	41.64	12.17	10.38	9.18	5.25	5.90	1.83								
68	32.20	100.80	19.68	43.86	12.56	10.78	9.46	5.45	6.08	1.90								
70	33.15	104.80	20.26	46.12	12.95	11.18	9.74	5.65	6.26	1.97								
72	34.10	108.80	20.84	48.42	13.34	11.58	10.02	5.85	6.44	2.04								
74	35.05	112.80	21.42	50.76	13.73	11.98	10.30	6.05	6.62	2.11								
76	36.00	116.80	22.00	53.14	14.12	12.38	10.58	6.25	6.80	2.18								
78	36.95	120.80	22.58	55.56	14.51	12.78	10.86	6.45	6.98	2.25								
80	37.90	124.80	23.16	58.02	14.90	13.18	11.14	6.65	7.16	2.32								
82	38.85	128.80	23.74	60.52	15.29	13.58	11.42	6.85	7.34	2.39								
84	39.80	132.80	24.32	63.06	15.68	13.98	11.70	7.05	7.52	2.46								
86	40.75	136.80	24.90	65.64	16.07	14.38	11.98	7.25	7.70	2.53								
88	41.70	140.80	25.48	68.26	16.46	14.78	12.26	7.45	7.88	2.60								
90	42.65	144.80	26.06	70.92	16.85	15.18	12.54	7.65	8.06	2.67								
92	43.60	148.80	26.64	73.62	17.24	15.58	12.82	7.85	8.24	2.74								
94	44.55	152.80	27.22	76.36	17.63	15.98	13.10	8.05	8.42	2.81								
96	45.50	156.80	27.80	79.14	18.02	16.38	13.38	8.25	8.60	2.88								
98	46.45	160.80	28.38	81.96	18.41	16.78	13.66	8.45	8.78	2.95								
100	47.40	164.80	28.96	84.82	18.80	17.18	13.94	8.65	8.96	3.02								
102	48.35	168.80	29.54	87.72	19.19	17.58	14.22	8.85	9.14	3.09								
104	49.30	172.80	30.12	90.66	19.58	17.98	14.50	9.05	9.32	3.16								
106	50.25	176.80	30.70	93.64	19.97	18.38	14.78	9.25	9.50	3.23								
108	51.20	180.80	31.28	96.66	20.36	18.78	15.06	9.45	9.68	3.30								
110	52.15	184.80	31.86	99.72	20.75	19.18	15.34	9.65	9.86	3.37								
112	53.10	188.80	32.44	102.82	21.14	19.58	15.62	9.85	10.04	3.44								
114	54.05	192.80	33.02	105.96	21.53	19.98	15.90	10.05	10.22	3.51								
116	55.00	196.80	33.60	109.14	21.92	20.38	16.18	10.25	10.40	3.58								
118	55.95	200.80	34.18	112.36	22.31	20.78	16.46	10.45	10.58	3.65								
120	56.90	204.80	34.76	115.62	22.70	21.18	16.74	10.65	10.76	3.72								
122	57.85	208.80	35.34	118.92	23.09	21.58	17.02	10.85	10.94	3.79								
124	58.80	212.80	35.92	122.26	23.48	21.98	17.30	11.05	11.12	3.86								
126	59.75	216.80	36.50	125.64	23.87	22.38	17.58	11.25	11.30	3.93								
128	60.70	220.80	37.08	129.06	24.26	22.78	17.86	11.45	11.48	4.00								
130	61.65	224.80	37.66	132.52	24.65	23.18	18.14	11.65	11.66	4.07								
132	62.60	228.80	38.24	136.02	25.04	23.58	18.42	11.85	11.84	4.14								
134	63.55	232.80	38.82	139.56	25.43	23.98	18.70	12.05	12.02	4.21								
136	64.50	236.80	39.40	143.14	25.82	24.38	18.98	12.25	12.20	4.28								
138	65.45	240.80	39.98	146.76	26.21	24.78	19.26	12.45	12.38	4.35								
140	66.40	244.80	40.56	150.42	26.60	25.18	19.54	12.65	12.56	4.42								
142	67.35	248.80	41.14	154.12	26.99	25.58	19.82	12.85	12.74	4.49								
144	68.30	252.80	41.72	157.86	27.38	25.98	20.10	13.05	12.92	4.56								
146	69.25	256.80	42.30	161.64	27.77	26.38	20.38	13.25	13.10	4.63								
148	70.20	260.80	42.88	165.46	28.16	26.78	20.66	13.45	13.28	4.70								
150	71.15	264.80	43.46	169.32	28.55	27.18	20.94	13.65	13.46	4.77								
152	72.10	268.80	44.04	173.22	28.94	27.58	21.22	13.85	13.64	4.84								
154	73.05	272.80	44.62	177.16	29													

Industrial Piping Sizing Manual

CO Houle



Industrial Piping Sizing Manual:

Industrial Piping and Equipment Estimating Manual Kenneth Storm, 2017-06-23 Industrial Piping and Equipment Estimation Manual delivers an invaluable resource for day to day operations Packed full of worksheets covering combined and simple cycle power plants refineries compressor stations ethanol hydrogen and biomass plants this reference helps the construction engineer and estimator learn how to create bids where scope and quantity differences can be identified and project impacts estimated Beginning with an introduction devoted to labor productivity measurement estimating methods and factors affecting construction labor productivity and impacts of overtime the author then explores equipment through hands on estimation tables including sample estimates and statistical applications The book rounds out with a glossary abbreviations list formulas and metric standard conversions and is an ideal reference for estimators engineers and managers with the level of detail and equipment breakdown necessary for today's industrial operations Includes day to day worksheets to help users estimate equipment and piping for any plant or refinery project Presents the comparison method to estimate similarities and differences between proposed and previously installed equipment Helps users understand and produce more accurate direct costs with sample estimates

Handbook of Valves and Actuators Brian Nesbitt, 2011-04-19 Industries that use pumps seals and pipes will also use valves and actuators in their systems This key reference provides anyone who designs uses specifies or maintains valves and valve systems with all of the critical design specification performance and operational information they need for the job in hand Brian Nesbitt is a well known consultant with a considerable publishing record A lifetime of experience backs up the huge amount of practical detail in this volume Valves and actuators are widely used across industry and this dedicated reference provides all the information plant designers specifiers or those involved with maintenance require Practical approach backed up with technical detail and engineering know how makes this the ideal single volume reference Compares and contrasts valve and actuator types to ensure the right equipment is chosen for the right application and properly maintained

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 potential

Industrial Gas Handbook Frank G. Kerry, 2007-02-22 Drawing on Frank G Kerry's more than 60 years of experience as a

practicing engineer the Industrial Gas Handbook Gas Separation and Purification provides from the trenches advice that helps practicing engineers master and advance in the field It offers detailed discussions and up to date approaches to process cycles for cryogenic separation of

Pipeline Design for Water Engineers D.J. Stephenson,1989-06-01 the book is at its best in the design and analysis sections and could stand on these alone as a well stocked handbook with copious references for further study commented the Journal of the National Water Council after publication of an earlier edition of Pipeline Design for Water Engineers This classic monograph has been revised and updated to take account of new developments in the field Recent research in cavitation and flow control has prompted additional sections to be added There are also new sections on supports to exposed pipes and secondary stress Additional references and a new layout make up this edition Some sections appearing in previous editions notably on pipe network systems analysis and optimization have been omitted as they were considered more appropriate in the author's parallel book Pipeflow Analysis Developments in Water Science 19

Practical Guidelines for the Chemical Industry Kiran R. Golwalkar,Rashmi Kumar,2022-04-27 This book provides practical guidelines to chemical engineers plant managers maintenance engineers and senior managements in modern chemical processing facilities It provides guidelines to the readers for operational competencies such as hazard identification HAZID hazard operability studies HAZOP avoiding mistakes in plant facilities to ensure safety compliance with various statutory rules and regulations and management of human resources through improved working conditions provision of safety equipment etc It further presents technical information on pressure vessels design of piping and selection of pumping systems materials for construction and lining of process units operating at high temperature and corrosive conditions and criteria for selection of different methods for heating of process units In addition to its application to existing operations the book includes information on expansion diversification and modernization of facilities and guidelines for revival of old and idle plants Finally the authors discuss various safety issues controlling cost of production and sustainability topics such as planning and implementing co generation of steam and power environmental pollution control for chemical plants and safe disposal of hazardous wastes

Technical Manual United States Department of the Army,1972

Technical Manual United States. War Department,1972

Pipeline Risk Management Manual W. Kent Muhlbauer,2004-01-24 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

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to use them Construction of pier and footing forms Construction of foundation wall forms Formwork for openings in concrete walls Formwork for steps Formwork for floors and sidewalk slabs How to make beam and girder forms Forms for arched openings Handling and placing concrete Finishing concrete Curing and patching concrete Effects of temperature Reinforced concrete construction Precast concrete Cleaning concrete and masonry methods Appendix A Method of making slump test for consistency of Portland cement concrete Appendix B Estimating quantities and labor hours for concrete forms and reinforcing

The Enigmatic Realm of **Industrial Piping Sizing Manual**: Unleashing the Language is Inner Magic

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Table of Contents **Industrial Piping Sizing Manual**

1. Understanding the eBook **Industrial Piping Sizing Manual**
 - The Rise of Digital Reading **Industrial Piping Sizing Manual**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Industrial Piping Sizing Manual**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **Industrial Piping Sizing Manual**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Industrial Piping Sizing Manual**
 - Personalized Recommendations
 - **Industrial Piping Sizing Manual** User Reviews and Ratings
 - **Industrial Piping Sizing Manual** and Bestseller Lists

5. Accessing Industrial Piping Sizing Manual Free and Paid eBooks
 - Industrial Piping Sizing Manual Public Domain eBooks
 - Industrial Piping Sizing Manual eBook Subscription Services
 - Industrial Piping Sizing Manual Budget-Friendly Options
6. Navigating Industrial Piping Sizing Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Industrial Piping Sizing Manual Compatibility with Devices
 - Industrial Piping Sizing Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Industrial Piping Sizing Manual
 - Highlighting and Note-Taking Industrial Piping Sizing Manual
 - Interactive Elements Industrial Piping Sizing Manual
8. Staying Engaged with Industrial Piping Sizing Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Industrial Piping Sizing Manual
9. Balancing eBooks and Physical Books Industrial Piping Sizing Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Industrial Piping Sizing Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Industrial Piping Sizing Manual
 - Setting Reading Goals Industrial Piping Sizing Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Industrial Piping Sizing Manual
 - Fact-Checking eBook Content of Industrial Piping Sizing Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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