

STANDARD STEEL PIPE DATA

Table A2.1-1; Non-Insulated Standard Steel Pipe – Water

Nominal Pipe Size (in)	Pipe O. D. (in)	Pipe I. D. (in)	Pipe Weight (lb/ft)	Water Weight (lb/ft)	Pipe + Water Weight (lb/ft)
3/4	1.050	0.824	1.13	0.23	1.36
1	1.315	1.049	1.68	0.37	2.05
1 1/4	1.660	1.380	2.27	0.65	2.92
1 1/2	1.900	1.610	2.71	0.88	3.60
2	2.375	2.067	3.65	1.45	5.10
2 1/2	2.875	2.469	5.79	2.07	7.86
3	3.500	3.068	7.57	3.20	10.77
3 1/2	4.000	3.548	9.10	4.28	13.38
4	4.500	4.026	10.78	5.52	16.30
5	5.563	5.047	14.60	8.67	23.27
6	6.625	6.065	18.95	12.52	31.47
8	8.625	7.981	28.52	21.68	50.20
10	10.750	10.020	40.44	34.17	74.61
11	11.750	11.000	45.51	41.18	86.69
12	12.750	12.000	49.51	49.01	98.52
14	14.000	13.250	54.51	59.75	114.26
16	16.000	15.250	62.51	79.15	141.66
18	18.000	17.250	70.51	101.27	171.79
20	20.000	19.250	78.52	126.12	204.63
22	22.000	21.250	86.52	153.68	240.20
24	24.000	23.250	94.52	183.97	278.49
30	30.000	29.250	118.52	291.18	409.71
36	36.000	35.250	142.53	422.89	565.42
42	42.000	41.250	166.53	579.11	745.64
48	48.000	47.250	190.54	759.83	950.37

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KINETICS™ Pipe & Duct Seismic Application Manual

Table A2.1-2; Insulated Standard Steel Pipe – Water (85% Magnesia Insulation)

Nominal Pipe Size (in)	Pipe O. D. (in)	Pipe I. D. (in)	Pipe Weight (lb/ft)	Water Weight (lb/ft)	Insulation Thickness (in)	Insulation Weight (lb/ft)	Pipe + Water + Insulation Weight (lb/ft)
3/4	1.050	0.824	1.13	0.23	1.00	0.76	2.12
1	1.315	1.049	1.68	0.37	1.00	0.86	2.91
1 1/4	1.660	1.380	2.27	0.65	1.00	0.99	3.91
1 1/2	1.900	1.610	2.71	0.88	1.00	1.08	4.67
2	2.375	2.067	3.65	1.45	1.00	1.25	6.35
2 1/2	2.875	2.469	5.79	2.07	1.00	1.44	9.30
3	3.500	3.068	7.57	3.20	1.00	1.67	12.44
3 1/2	4.000	3.548	9.10	4.28	1.00	1.85	15.24
4	4.500	4.026	10.78	5.52	1.00	2.04	18.34
5	5.563	5.047	14.60	8.67	1.50	3.93	27.20
6	6.625	6.065	18.95	12.52	1.50	4.52	35.99
8	8.625	7.981	28.52	21.68	1.50	5.63	55.84
10	10.750	10.020	40.44	34.17	1.50	6.81	81.43
11	11.750	11.000	45.51	41.18	1.50	7.37	94.06
12	12.750	12.000	49.51	49.01	1.50	7.93	106.45
14	14.000	13.250	54.51	59.75	1.50	8.62	122.88
16	16.000	15.250	62.51	79.15	1.50	9.74	151.40
18	18.000	17.250	70.51	101.27	1.50	10.85	182.63
20	20.000	19.250	78.52	126.12	1.50	11.96	216.59
22	22.000	21.250	86.52	153.68	1.50	13.07	253.28
24	24.000	23.250	94.52	183.97	1.50	14.19	292.68
30	30.000	29.250	118.52	291.18	1.50	17.52	427.23
36	36.000	35.250	142.53	422.89	1.50	20.86	586.28
42	42.000	41.250	166.53	579.11	1.50	24.20	769.84
48	48.000	47.250	190.54	759.83	1.50	27.54	977.91

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Table A2.1-3; Insulated Standard Steel Pipe – Steam (85% Magnesia Insulation)

Nominal Pipe Size (in)	Pipe O. D. (in)	Pipe I. D. (in)	Pipe Weight (lb/ft)	Steam Weight (lb/ft)	Insulation Thickness (in)	Insulation Weight (lb/ft)	Pipe + Steam + Insulation Weight (lb/ft)
3/4	1.050	0.824	1.13	0.00014	1.50	1.42	2.55
1	1.315	1.049	1.68	0.00022	1.50	1.57	3.24
1 1/4	1.660	1.380	2.27	0.00039	1.50	1.76	4.03
1 1/2	1.900	1.610	2.71	0.00053	1.50	1.89	4.61
2	2.375	2.067	3.65	0.00087	1.50	2.16	5.81
2 1/2	2.875	2.469	5.79	0.00124	1.50	2.43	8.22
3	3.500	3.068	7.57	0.00191	1.50	2.78	10.35
3 1/2	4.000	3.548	9.10	0.00255	1.50	3.06	12.16
4	4.500	4.026	10.78	0.00329	1.50	3.34	14.12
5	5.563	5.047	14.60	0.00517	2.00	5.61	20.22
6	6.625	6.065	18.95	0.00746	2.00	6.40	25.36
8	8.625	7.981	28.52	0.01292	2.00	7.88	36.42
10	10.750	10.020	40.44	0.02037	2.00	9.46	49.92
11	11.750	11.000	45.51	0.02455	2.00	10.20	55.73
12	12.750	12.000	49.51	0.02922	2.00	10.94	60.48
14	14.000	13.250	54.51	0.03562	2.00	11.87	66.42
16	16.000	15.250	62.51	0.04719	2.00	13.35	75.91
18	18.000	17.250	70.51	0.06037	2.00	14.84	85.41
20	20.000	19.250	78.52	0.07519	2.00	16.32	94.91
22	22.000	21.250	86.52	0.09162	2.00	17.80	104.41
24	24.000	23.250	94.52	0.10968	2.00	19.29	113.91
30	30.000	29.250	118.52	0.17359	2.00	23.74	142.43
36	36.000	35.250	142.53	0.25211	2.00	28.19	170.97
42	42.000	41.250	166.53	0.34524	2.00	32.64	199.52
48	48.000	47.250	190.54	0.45297	2.00	37.09	228.08

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