

Data sheet

Pipe Dimensions and Weights

- Steel Pipe
- Copper Pipe
- PVC Pipe
- CPVC Pipe
- AWWA Ductile Iron Pipe
- PEX Pipe

STEEL PIPE DATA Schedule 40 & 80						
Pipe Size	Pipe OD Inch	Pipe OD mm	Schedule no.	Wall thickness	Weight per foot (lbs)	
					Pipe	Pipe filled with water
3/8"	0.675	17.15	40	0.091	0.567	0.650
			80	0.126	0.740	0.800
1/2"	0.84	21.34	40	0.109	0.850	0.980
			80	0.147	1.090	1.190
3/4"	1.05	26.67	40	0.113	1.130	1.360
			80	0.154	1.470	1.660
1"	1.315	33.40	40	0.133	1.680	2.050
			80	0.179	2.170	2.480
1 1/4"	1.66	42.16	40	0.140	2.270	2.920
			80	0.191	3.000	3.550
1 1/2"	1.9	48.26	40	0.145	2.720	3.600
			80	0.200	3.630	4.400
2"	2.375	60.33	40	0.154	3.650	5.100
			80	0.218	5.020	6.300
2 1/2"	2.875	73.03	40	0.230	5.790	7.860
			80	0.276	7.660	9.490
3"	3.5	88.90	40	0.216	7.580	10.780
			80	0.300	10.250	13.110
3 1/2"	4	101.60	40	0.226	9.110	13.400
			80	0.318	12.510	16.360
4"	4.5	114.30	40	0.237	10.790	16.300
			80	0.337	14.980	19.960
5"	5.563	141.30	40	0.258	14.620	23.290
			80	0.375	20.780	28.660
6"	6.625	168.28	40	0.280	18.970	31.490
			80	0.432	28.570	39.860
8"	8.626	219.10	40	0.322	25.550	50.150
			80	0.500	43.390	63.190
10"	10.75	273.05	40	0.365	40.480	74.580
			80	0.593	64.400	95.500
12"	12.75	323.85	40	0.406	53.600	102.100
			80	0.687	88.600	132.600
14"	14	355.60	40	0.437	63.000	122.000
			80	0.750	107.000	132.600
16"	16	406.40	40	0.500	83.000	160.000
			80	0.843	137.000	207.000
18"	18	457.20	40	0.563	105.000	202.000
			80	0.937	171.000	260.000
20"	20	508.00	40	0.593	123.000	244.000
			80	1.031	209.000	318.000
24"	24	609.60	40	0.687	171.000	345.000
			80	0.218	297.000	455.000
30"	30	762.00	20	0.500	158.000	444.000
36"	36	914.40	API	0.500	190.000	607.000

Copper tubing Type L						
Pipe Size	Pipe OD		Wall thickness	Weight per foot (lbs)		
	Inch	mm		Pipe	Pipe filled with water	
1/4"	3/8"	0.375	9.53	0.030	0.126	0.160
3/8"	1/2"	0.500	12.70	0.035	0.198	0.260
1/2"	5/8"	0.625	15.88	0.040	0.285	0.385
5/8"	3/4"	0.750	19.05	0.042	0.362	0.513
3/4"	7/8"	0.875	22.23	0.045	0.455	0.664
1"	1 1/8"	1.125	28.58	0.050	0.655	1.014
1 1/4"	1 3/8"	1.375	34.93	0.055	0.884	1.430
1 1/2"	1 5/8"	1.625	41.28	0.060	1.140	1.910
2"	2 1/8"	2.125	53.98	0.060	1.750	3.091
2 1/2"	2 5/8"	2.625	66.68	0.080	2.480	4.544
3"	3 1/8"	3.125	79.38	0.090	3.330	6.279
3 1/2"	3 5/8"	3.625	92.08	0.100	4.290	8.279
4"	4 1/8"	4.125	104.78	0.110	5.380	10.568
5"	5 1/8"	5.125	130.18	0.125	7.610	15.691
6"	6 1/8"	6.125	155.58	0.140	10.200	21.816
8"	8 1/8"	8.125	206.38	0.200	19.290	39.579
10"	10 1/8"	10.125	257.18	0.250	30.100	61.690
12"	12 1/8"	12.125	307.98	0.280	40.400	85.826

Copper tubing Type K						
Pipe Size	Pipe OD		Wall thickness	Weight per foot (lbs)		
	Inch	mm		Pipe	Pipe filled with water	
1/4"	3/8"	0.375	9.53	0.035	0.145	0.177
3/8"	1/2"	0.500	12.70	0.049	0.269	0.324
1/2"	5/8"	0.625	15.88	0.049	0.344	0.438
5/8"	3/4"	0.750	19.05	0.049	0.418	0.562
3/4"	7/8"	0.875	22.23	0.065	0.641	0.829
1"	1 1/8"	1.125	28.56	0.065	0.839	1.176
1 1/4"	1 3/8"	1.375	34.93	0.065	1.040	1.567
1 1/2"	1 5/8"	1.625	41.28	0.072	1.360	2.103
2"	2 1/8"	2.125	53.98	0.083	2.060	3.370
2 1/2"	2 5/8"	2.625	66.68	0.095	2.920	4.920
3"	3 1/8"	3.125	79.38	0.109	4.000	6.960
3 1/2"	3 5/8"	3.625	92.08	0.120	5.120	9.020
4"	4 1/8"	4.125	104.78	0.134	6.510	11.570
5"	5 1/8"	5.125	130.18	0.160	9.670	17.670
6"	6 1/8"	6.125	155.58	0.192	13.870	25.070
8"	8 1/8"	8.125	206.38	0.271	25.900	45.400
10"	10 1/8"	10.125	257.18	0.338	40.300	70.723
12"	12 1/8"	12.125	307.98	0.405	57.800	101.475

PVC Pipes - Schedule 40							
Pipe Size	Pipe OD Inch	Pipe OD mm	Minimum wall thickness	Nominal inside diameter	Weight per foot (lbs)		
					Pipe	Pipe filled with water	
3/8"	0.675	17.15	0.091	0.493	0.122	0.205	
1/2"	0.840	21.34	0.109	0.622	0.180	0.312	
3/4"	1.050	26.67	0.113	0.824	0.239	0.469	
1"	1.315	33.40	0.133	1.049	0.352	0.726	
1 1/4"	1.660	42.16	0.140	1.380	0.475	1.122	
1 1/2"	1.900	48.26	0.145	1.610	0.568	1.450	
2"	2.375	60.33	0.154	2.067	0.761	2.213	
2 1/2"	2.875	73.03	0.203	2.469	1.201	3.273	
3"	3.500	88.90	0.216	3.068	1.572	4.772	
4"	4.500	114.30	0.237	4.026	2.239	7.749	
5"	5.563	141.30	0.258	5.047	3.062	11.722	
6"	6.625	168.28	0.280	6.065	3.945	16.455	
8"	8.625	219.08	0.322	7.981	5.920	27.520	
10"	10.750	273.05	0.365	10.020	8.406	42.506	
12"	12.750	323.85	0.406	11.938	11.172	59.672	
14"	14.000	355.60	0.438	13.124	13.262	71.762	
16"	16.000	406.40	0.500	15.000	17.312	93.812	

PVC Pipes - Schedule 80							
Pipe Size	Pipe OD Inch	Pipe OD mm	Minimum wall thickness	Nominal inside diameter	Weight per foot (lbs)		
					Pipe	Pipe filled with water	
3/8"	0.675	17.15	0.126	0.423	0.154	0.215	
1/2"	0.840	21.34	0.147	0.546	0.225	0.326	
3/4"	1.050	26.67	0.154	0.742	0.305	0.491	
1"	1.315	33.40	0.179	0.957	0.449	0.760	
1 1/4"	1.660	42.16	0.191	1.278	0.618	1.173	
1 1/2"	1.900	48.26	0.200	1.500	0.751	1.516	
2"	2.375	60.33	0.218	1.939	1.040	2.319	
2 1/2"	2.875	73.03	0.276	2.323	1.584	3.418	
3"	3.500	88.90	0.300	2.900	2.124	4.984	
4"	4.500	114.30	0.337	3.826	3.105	8.085	
5"	5.563	141.30	0.375	4.813	4.343	12.213	
6"	6.625	168.28	0.432	5.761	5.929	17.219	
8"	8.625	219.08	0.500	7.625	9.051	28.851	
10"	10.750	273.05	0.593	9.564	13.429	44.529	
12"	12.750	323.85	0.687	11.376	18.458	52.458	
14"	14.000	355.60	0.750	12.500	22.224	73.424	
16"	16.000	406.40	0.843	14.314	28.557	98.257	

CPVC Pipes – SDR 11							
Pipe Size	Pipe OD Inch	Pipe OD mm	Minimum wall thickness	Nominal inside diameter	Weight per foot (lbs)		
					Pipe	Pipe filled with water	
1/2"	0.625	15.88	0.068	0.546	0.225	0.326	
3/4"	0.875	22.23	0.080	0.742	0.305	0.491	
1"	1.125	28.58	0.102	0.957	0.449	0.760	
1 1/4"	1.375	34.93	0.125	1.278	0.618	1.173	
1 1/2"	1.625	41.28	0.148	1.500	0.751	1.516	
2"	2.125	53.98	0.193	1.939	1.040	2.319	

AWWA Ductile iron pipe ANSI/AWWA C151/A21.51							
Pipe Size	Thickness Class	Pipe OD Inch	Pipe OD mm	Wall Thickness	Weight per foot (lbs)		
					Pipe	Pipe filled with water	
3"	53	3.96	100.58	0.31	11.4	15.2	
4"	53	4.80	121.92	0.32	14.4	20.3	
6"	53	6.90	175.26	0.34	22.2	35.3	
8"	53	9.05	229.87	0.36	31.5	54.5	
10"	53	11.10	281.94	0.38	41.1	77.5	
12"	53	13.20	335.28	0.40	51.6	103.9	
14"	53	15.30	388.62	0.42	63.6	134.7	
16"	53	17.40	441.96	0.43	74.3	167.4	
18"	53	19.50	495.30	0.44	85.4	203.3	
20"	53	21.60	548.64	0.45	96.9	242.7	
24"	53	25.80	655.32	0.47	121.1	422.3	
30"	53	32.00	812.80	0.51	163.8	490.3	
36"	53	38.30	972.82	0.58	223.6	696.9	
42"	53	44.50	1,130.30	0.65	293.6	928.5	
48"	53	50.80	1,290.32	0.72	370.5	1,199.4	

PEX							
Pipe Size	Pipe OD Inch	Pipe OD mm	Minimum wall thickness	Nominal inside diameter	Weight per foot (lbs)		
					Pipe	Pipe filled with water	
1/4"	0.375	9.53	0.067	0.241	0.040	0.059	
3/8"	0.500	12.70	0.075	0.350	0.047	0.088	
1/2"	0.625	15.88	0.075	0.475	0.060	0.137	
5/8"	0.750	19.05	0.088	0.574	0.087	0.199	
3/4"	0.875	22.23	0.102	0.671	0.110	0.263	
1"	1.125	28.58	0.132	0.862	0.192	0.445	
1 1/4"	1.375	34.93	0.161	1.054	0.350	0.727	
1 1/2"	1.625	41.28	0.191	1.244	0.440	0.966	
2"	2.125	53.98	0.248	1.629	0.682	1.622	
2 1/2"	2.625	66.68	0.308	2.010	0.880	2.300	
3"	3.125	79.38	0.363	2.400	1.280	3.240	
3 1/2"	3.625	92.08	0.421	2.784	1.738	4.420	
4"	4.125	104.78	0.478	3.169	2.251	5.670	