

TABLE D.1. *Pipe dimensions.*

Nominal Diameter	Outside Diameter		Schedule	Inside Diameter		Flow Area	
	in. (ft)	cm		ft	cm	ft ²	cm ²
1/8	0.405	1.029	40 (std)	0.02242	0.683	0.0003947	0.366 4
	(0.03375)		80 (xs)	0.01792	0.547	0.0002522	0.235 0
1/4	0.540	1.372	40 (std)	0.03033	0.924	0.0007227	0.670 6
	(0.045)		80 (xs)	0.02517	0.768	0.0004974	0.463 2
3/8	0.675	1.714	40 (std)	0.04108	1.252	0.001326	1.233
	(0.05625)		80 (xs)	0.03525	1.074	0.0009759	0.905 9
1/2	0.840 (0.070)	2.134	40 (std)	0.05183	1.580	0.002110	1.961
			80 (xs)	0.04550	1.386	0.001626	1.508
			160	0.03867	1.178	0.001174	1.090
			(xxs)	0.02100	0.640	0.0003464	0.321 7
3/4	1.050 (0.0875)	2.667	40 (std)	0.06867	2.093	0.003703	3.441
			80 (xs)	0.06183	1.883	0.003003	2.785
			160	0.05100	1.555	0.002043	1.898
			(xxs)	0.03617	1.103	0.001027	0.955 5
1	1.315 (0.1095)	3.340	40 (std)	0.08742	2.664	0.006002	5.574
			80 (xs)	0.07975	2.430	0.004995	5.083
			160	0.06792	2.070	0.003623	3.365
			(xxs)	0.04992	1.522	0.001957	1.815
1 1/4	1.660 (0.1383)	4.216	40 (std)	0.1150	3.504	0.01039	9.643
			80 (xs)	0.1065	3.246	0.008908	8.275
			160	0.09667	2.946	0.007339	6.816
			(xxs)	0.07467	2.276	0.004379	4.069
1 1/2	1.900 (0.1583)	4.826	40 (std)	0.1342	4.090	0.01414	13.13
			80 (xs)	0.1250	3.810	0.01227	11.40
			160	0.1115	3.398	0.009764	9.068
			(xxs)	0.09167	2.794	0.007700	6.131

Notes: std implies standard; xs is extra strong; xxs is double extra strong.

TABLE D.1. continued. *Pipe dimensions.*

Nominal Diameter	Outside Diameter		Schedule	Inside Diameter		Flow Area	
	in. (ft)	cm		ft	cm	ft ²	cm ²
2	2.375 (0.1979)	6.034	40 (std)	0.1723	5.252	0.02330	21.66
			80 (xs)	0.1616	4.926	0.02051	19.06
			160	0.1406	4.286	0.01552	14.43
			(xxs)	0.1253	3.820	0.01232	11.46
2½	2.875 (0.2396)	7.303	40 (std)	0.2058	6.271	0.03325	30.89
			80 (xs)	0.1936	5.901	0.02943	27.35
			160	0.1771	5.397	0.02463	22.88
			(xxs)	0.1476	4.499	0.01711	15.90
3	3.500 (0.2917)	8.890	40 (std)	0.2557	7.792	0.05134	47.69
			80 (xs)	0.2417	7.366	0.04587	42.61
			160	0.2187	6.664	0.03755	34.88
			(xxs)	0.1917	5.842	0.02885	26.80
3½	4.000 (0.3333)	10.16	40 (std)	0.2957	9.012	0.06866	63.79
			80 (xs)	0.2803	8.544	0.06172	57.33
4	4.500 (0.375)	11.43	40 (std)	0.3355	10.23	0.08841	82.19
			80 (xs)	0.3198	9.718	0.07984	74.17
			120	0.3020	9.204	0.07163	66.54
			160	0.2865	8.732	0.06447	59.88
			(xxs)	0.2626	8.006	0.05419	50.34
5	5.563 (0.4636)	14.13	40 (std)	0.4206	12.82	0.1389	129.10
			80 (xs)	0.4011	12.22	0.1263	117.30
			120	0.3803	11.59	0.1136	105.50
			160	0.3594	10.95	0.1015	94.17
			(xxs)	0.3386	10.32	0.09004	83.65
6	6.625 (0.5521)	16.83	40 (std)	0.5054	15.41	0.2006	186.50
			80 (xs)	0.4801	14.64	0.1810	168.30
			120	0.4584	13.98	0.1650	153.50
			160	0.4823	13.18	0.1467	136.40
			(xxs)	0.4081	12.44	0.1308	121.50

Notes: std implies standard; xs is extra strong; xxs is double extra strong.

TABLE D.1. continued. *Pipe dimensions.*

Nominal Diameter	Outside Diameter		Schedule	Inside Diameter		Flow Area	
	in. (ft)	cm		ft	cm	ft ²	cm ²
8	8.625 (0.7188)	21.91	20	0.6771	20.64	0.3601	334.60
			30	0.6726	20.50	0.3553	330.10
			40 (std)	0.6651	20.27	0.3474	322.70
			60	0.6511	19.85	0.3329	309.50
			80 (xs)	0.6354	19.37	0.3171	294.70
			100	0.6198	18.89	0.3017	280.30
			120	0.5989	18.26	0.2817	261.90
			140	0.5834	17.79	0.2673	248.60
			160 (xxs)	0.5729	17.46	0.2578	239.40
10	10.750 (0.8958)	27.31	20	0.8542	26.04	0.5730	332.60
			30	0.8446	25.75	0.5604	520.80
			40 (std)	0.8350	25.46	0.5476	509.10
			60 (xs)	0.8125	24.77	0.5185	481.90
			80	0.7968	24.29	0.4987	463.40
			100	0.7760	23.66	0.4730	439.70
			120	0.7552	23.02	0.4470	416.20
			140 (xxs)	0.7292	22.23	0.4176	388.10
			160	0.7083	21.59	0.3941	366.10
12	12.750 (1.058)	32.39	20	1.021	31.12	0.8185	760.60
			30	1.008	30.71	0.7972	740.71
			(std)	1.000	30.48	0.7854	729.70
			40	0.9948	30.33	0.773	722.50
			(xs)	0.9792	29.85	0.7530	699.80
			60	0.9688	29.53	0.7372	684.90
			80	0.9478	28.89	0.7056	655.50
			100	0.9218	28.10	0.6674	620.20
			120 (xxs)	0.8958	27.31	0.6303	585.80
14	14.000 (1.1667)	35.57	140	0.8750	26.67	0.6013	558.60
			160	0.8438	25.72	0.5592	519.60
			30 (std)	1.104	33.65	0.9575	889.30
			160	0.9323	28.42	0.6827	634.40

Notes: std implies standard; xs is extra strong; xxs is double extra strong.

TABLE D.1. continued. *Pipe dimensions.*

Nominal Diameter	Outside Diameter		Schedule	Inside Diameter		Flow Area	
	in. (ft)	cm		ft	cm	ft ²	cm ²
16	16.000 (1.333)	40.64	30 (std) 160	1.271	38.73	1.268	1 178.00
				1.068	32.54	0.8953	831.60
18	18.000 (1.500)	45.72	(std) 160	1.438	43.81	1.623	1 507.00
				1.203	36.67	1.137	1 056.00
20	20.000 (1.6667)	50.80	20 (std) 160	1.604	48.89	2.021	1 877.00
				1.339	40.80	1.407	1 307.00
22	22.000 (1.8333)	55.88	20 (std) 160	1.771	53.97	2.463	2 288.00
				1.479	45.08	1.718	1 596.00
24	24.000 (2.00)	60.96	20 (std) 160	1.938	59.05	2.948	2 739.00
				1.609	49.05	2.034	1 890.00
26	26.000 (2.167)	66.04	(std)	2.104	64.13	3.477	3 230.00
28	28.000 (2.333)	71.12	(std)	2.271	69.21	4.050	3 762.00
30	30.000 (2.500)	76.20	(std)	2.438	74.29	4.666	4 335.00
32	32.000 (2.667)	81.28	(std)	2.604	79.34	5.326	4 944.00
34	34.000 (2.833)	86.36	(std)	2.771	84.45	6.030	5 601.00
36	36.000 (3.000)	91.44	(std)	2.938	89.53	6.777	6 295.00
38	38.000 (3.167)	96.52	—	3.104	94.61	7.568	7 030.00
40	40.000 (3.333)	101.6	—	3.271	99.69	8.403	7 805.00

Notes: std implies standard; xs is extra strong; xxs is double extra strong.

Source: *Dimensions in English units obtained from ANSI B36.10-79, American National Standard Wrought Steel and Wrought Iron Pipe. Reprinted by permission of the publisher, The American Society of Mechanical Engineers.*