

Pipe Data: Carbon and Alloy Steel—Stainless Steel

Nominal Pipe Size (Inches)	Outside Diameter (Inches)	Identification			Wall Thickness (t) (Inches)	Inside Diameter (d) (Inches)	Area of Metal (Square Inches)	Transverse Internal Area		Weight Pipe (Pounds per Foot)	Weight Water (Pounds per Foot of Pipe)
		Steel		Stainless Steel Schedule No.				(a) (Square Inches)	(A) (Square Feet)		
		Iron Pipe Size	Schedule No.								
1/8	0.405	...	...	10S	0.049	0.307	0.0548	0.0740	0.00051	0.19	0.032
		STD	40	40S	0.068	0.269	0.0720	0.0568	0.00040	0.24	0.025
		XS	80	80S	0.095	0.215	0.0925	0.0365	0.00025	0.31	0.016
1/4	0.540	...	...	10S	0.065	0.410	0.0970	0.1320	0.00091	0.33	0.057
		STD	40	40S	0.088	0.364	0.1250	0.1041	0.00072	0.42	0.045
		XS	80	80S	0.119	0.302	0.1574	0.0716	0.00050	0.54	0.031
3/8	0.675	...	...	10S	0.065	0.545	0.1246	0.2333	0.00162	0.42	0.101
		STD	40	40S	0.091	0.493	0.1670	0.1910	0.00133	0.57	0.083
		XS	80	80S	0.126	0.423	0.2173	0.1405	0.00098	0.74	0.061
1/2	0.840	...	...	5S	0.065	0.710	0.1583	0.3959	0.00275	0.54	0.172
		...	...	10S	0.083	0.674	0.1974	0.3568	0.00248	0.67	0.155
		STD	40	40S	0.109	0.622	0.2503	0.3040	0.00211	0.85	0.132
		XS	80	80S	0.147	0.546	0.3200	0.2340	0.00163	1.09	0.102
		...	160	...	0.187	0.466	0.3836	0.1706	0.00118	1.31	0.074
		XXS	...	...	0.294	0.252	0.5043	0.050	0.00035	1.71	0.022
3/4	1.050	...	...	5S	0.065	0.920	0.2011	0.6648	0.00462	0.69	0.288
		...	...	10S	0.083	0.884	0.2521	0.6138	0.00426	0.86	0.266
		STD	40	40S	0.113	0.824	0.3326	0.5330	0.00371	1.13	0.231
		XS	80	80S	0.154	0.742	0.4335	0.4330	0.00300	1.47	0.188
		...	160	...	0.219	0.612	0.5698	0.2961	0.00206	1.94	0.128
		XXS	...	...	0.308	0.434	0.7180	0.148	0.00103	2.44	0.064
1	1.315	...	...	5S	0.065	1.185	0.2553	1.1029	0.00766	0.87	0.478
		...	...	10S	0.109	1.097	0.4130	0.9452	0.00656	1.40	0.409
		STD	40	40S	0.133	1.049	0.4939	0.8640	0.00600	1.68	0.375
		XS	80	80S	0.179	0.957	0.6388	0.7190	0.00499	2.17	0.312
		...	160	...	0.250	0.815	0.8365	0.5217	0.00362	2.84	0.230
		XXS	...	...	0.358	0.599	1.0760	0.282	0.00196	3.66	0.122
1-1/4	1.660	...	...	5S	0.065	1.530	0.3257	1.839	0.01277	1.11	0.797
		...	...	10S	0.109	1.442	0.4717	1.633	0.01134	1.81	0.708
		STD	40	40S	0.140	1.380	0.6685	1.495	0.01040	2.27	0.649
		XS	80	80S	0.191	1.278	0.8815	1.283	0.00891	3.00	0.555
		...	160	...	0.250	1.160	1.1070	1.057	0.00734	3.76	0.458
		XXS	...	...	0.382	0.896	1.534	0.630	0.00438	5.21	0.273
1-1/2	1.900	...	...	5S	0.065	1.770	0.3747	2.461	0.01709	1.28	1.066
		...	...	10S	0.109	1.682	0.6133	2.222	0.01543	2.09	0.963
		STD	40	40S	0.145	1.610	0.7995	2.036	0.01414	2.72	0.882
		XS	80	80S	0.200	1.500	1.068	1.767	0.01225	3.63	0.765
		...	160	...	0.281	1.338	1.429	1.406	0.00976	4.86	0.608
		XXS	...	...	0.400	1.100	1.885	0.950	0.00660	6.41	0.42
2	2.375	...	...	5S	0.065	2.245	0.4717	3.958	0.02749	1.61	1.72
		...	...	10S	0.109	2.157	0.7760	3.654	0.02538	2.64	1.58
		STD	40	40S	0.154	2.067	1.075	3.355	0.02330	3.65	1.45
		XS	80	80S	0.218	1.939	1.477	2.953	0.02050	5.02	1.28
		...	160	...	0.344	1.687	2.190	2.241	0.01556	7.46	0.97
		XXS	...	...	0.436	1.503	2.656	1.774	0.01232	9.03	0.77

Identification, wall thickness and weights are extracted from ANSI B36.10 and B39.19.

The notations STD, XS, and XXS indicate Standard, Extra Strong, and Double Extra Strong pipe respectively.

Transverse internal area values listed in "square feet" also represent volume in cubic feet per foot of pipe length.