

Steel Pipe- Size, Schedule and Flow Rates

Standard Pipe - Schedule 40

PIPE SIZE	OD	WALL	ID	INT AREA	WT/ FT	GPM @ 2 FPS	GPM @ 5 FPS	GPM @ 10 FPS	GPM @ 15 FPS	GPM @ 20 FPS	GPM @ 25 FPS
1/8	.405	.068	.269	.057	.245	.35	.89	1.8	2.7	3.5	4.4
1/4	.540	.088	.364	.104	.425	.65	1.6	3.2	4.9	6.5	8.1
3/8	.675	.091	.493	.191	.567	1.2	3.0	6.0	9.0	12.0	15.0
1/2	.840	.109	.622	.304	.852	1.9	4.8	9.5	12.0	19.0	23.8
3/4	1.050	.113	.824	.533	1.132	3.3	8.4	16.7	25.1	33.4	41.8
1	1.315	.133	1.049	.864	1.679	5.4	13.5	27.0	40.6	54.1	67.7
1 1/4	1.660	.140	1.380	1.495	2.273	9.4	23.4	46.8	70.3	93.7	117
1 1/2	1.900	.145	1.610	2.036	2.718	12.7	31.9	63.7	95.6	127	159
2	2.375	.154	2.067	3.356	3.653	21.0	52.5	105	157	210	263
2 1/2	2.875	.203	2.469	4.788	5.793	30.0	75.0	150	225	300	375
3	3.500	.216	3.068	7.393	7.575	46.3	116	232	347	463	579
3 1/2	4.000	.226	3.548	9.886	10.79	61.9	155	310	465	619	774
4	4.500	.237	4.026	12.73	10.79	79.7	199	399	598	797	997
4 1/2	5.000	.247	4.506	15.95	12.54	99.9	250	499	749	998	1249
5	5.563	.258	5.047	20.01	14.62	125	313	627	940	1253	1567
6	6.625	.280	6.065	28.89	18.97	181	452	904	1357	1810	2262
7	7.625	.301	7.023	38.74	23.54	243	607	1213	1820	2427	3033
8	8.625	.322	7.981	50.03	28.55	313	783	1567	2350	3134	3917
10	10.75	.365	10.02	78.85	40.48	494	1235	2470	3705	4940	6175
12	12.75	.406	11.94	111.9	53.56	701	1753	3506	5259	7012	8765

Extra Strong Pipe - XS - Schedule 80

PIPE SIZE	WALL	ID	INT AREA	WT/ FT	GPM @ 2 FPS	GPM @ 5 FPS	GPM @ 10 FPS	GPM @ 15 FPS	GPM @ 20 FPS	GPM @ 25 FPS	PIPE SIZE
1/8	.095	.215	.036	.314	.23	.57	1.1	1.7	2.3	2.8	1/8
1/4	.119	.302	.072	.535	.45	1.1	2.2	3.4	4.5	5.6	1/4
3/8	.126	.423	.141	.738	.88	2.2	4.4	6.6	8.8	11.0	3/8
1/2	.147	.546	.234	1.087	1.5	3.7	7.3	11.0	14.7	18.3	1/2
3/4	.154	.742	.433	1.473	2.7	6.8	13.6	20.3	27.1	33.9	3/4
1	.179	.957	.719	2.171	4.5	11.3	22.5	33.8	45.0	56.3	1
1 1/4	.191	1.278	1.283	2.996	8.0	20.0	40.1	60.2	80.3	100	1 1/4
1 1/2	.200	1.500	1.767	3.631	11.1	27.7	55.3	83.0	110	138	1 1/2
2	.218	1.939	2.953	5.022	18.5	46.2	92.5	139	185	231	2
2 1/2	.276	2.323	4.238	7.661	26.5	66.4	133	199	265	332	2 1/2
3	.300	2.900	6.605	10.25	41.4	103	207	310	414	517	3
3 1/2	.318	3.364	8.888	12.50	55.7	139	278	418	557	696	3 1/2
4	.337	3.826	11.50	14.98	72.0	180	360	540	720	900	4
4 1/2	.355	4.290	14.45	17.61	90.5	226	453	679	905	1132	4 1/2
5	.375	4.813	18.19	20.78	114	285	570	855	1140	1425	5
6	.432	5.761	26.07	28.57	163	408	816	1225	1633	2041	6
7	.500	6.625	34.47	38.05	216	540	1080	1620	2160	2699	7
8	.500	7.625	45.66	43.39	286	715	1430	2145	2861	3576	8
10	.594	9.562	71.81	64.40	450	1125	2249	3374	4498	5623	10
12	.686	11.37	101.61	88.57	636	1591	3182	4774	6365	7956	12

Schedule 160 Pipe

PIPE SIZE	OD	WALL	ID	INT AREA	WT/ FT	GPM @ 2 FPS	GPM @ 5 FPS	GPM @ 10 FPS	GPM @ 15 FPS	GPM @ 20 FPS	GPM @ 25 FPS
1/2	.840	.187	.466	1.71	1.310	1.07	2.67	5.34	8.01	10.7	13.4
3/4	1.050	.218	.587	.271	1.940	1.70	4.24	8.49	12.7	17.0	21.2
1"	1.315	.250	.815	.522	2.850	3.27	8.17	16.3	24.5	32.7	40.8
1 1/4	1.660	.250	1.160	1.060	3.764	6.62	16.6	33.1	49.7	66.2	82.8
1 1/2	1.900	.281	1.338	1.410	4.862	8.81	22.0	44.0	66.1	88.1	110
2	2.375	.343	1.699	2.241	7.450	14.0	35.1	70.2	105	140	175
2 1/2	2.875	.375	2.125	3.542	10.01	22.2	55.5	111	167	222	278
3	3.500	.437	2.626	5.416	14.30	33.9	84.8	170	254	339	424
4	4.500	.531	3.438	9.283	22.52	58.2	145	291	436	582	727
5	5.563	.625	4.313	14.61	33.0	91.5	229	458	686	915	1144
6	6.625	.718	5.189	21.15	45.30	132	331	662	994	1325	1656
8	8.625	.906	6.813	36.44	74.70	230	571	1142	1713	2384	2855
10	10.75	1.125	8.500	56.75	115.64	355	889	1777	2666	3555	4443
12	12.75	1.312	10.126	80.53	160.33	504	1261	2523	3784	5045	6306

Double Extra Strong Pipe

PIPE SIZE	WALL	ID	INT AREA	WT/ FT	GPM @ 2 FPS	GPM @ 5 FPS	GPM @ 10 FPS	GPM @ 15 FPS	GPM @ 20 FPS	GPM @ 25 FPS	PIPE SIZE
1/2	.294	.252	.050	1.714	.32	.79	1.6	2.4	3.1	3.9	1/2
3/4	.308	.434	.148	2.440	.93	2.3	4.6	6.9	9.2	11.6	3/4
1"	.358	.599	.282	3.659	1.8	4.4	8.8	13.3	17.7	22.1	1"
1 1/4	.382	.896	.630	5.214	4.0	9.9	19.8	29.6	39.5	49.4	1 1/4
1 1/2	.400	1.100	.950	6.408	6.0	14.9	29.8	44.6	59.5	74.4	1 1/2
2	.436	1.503	1.774	9.029	11.1	27.9	55.6	83.4	111	139	2
2 1/2	.552	1.771	2.463	13.70	15.4	38.6	77.1	116	154	193	2 1/2
3	.600	2.300	4.154	18.58	26.0	65.1	130	195	260	325	3
4	.674	3.152	7.803	27.54	48.9	122	244	367	488	611	4
5	.750	4.063	12.07	38.55	81.2	203	406	609	812	1015	5
6	.864	4.897	18.83	53.16	118	295	590	885	1180	1475	6
8	.875	6.875	37.12	72.42	233	581	1163	1744	2325	2907	8
10	1.000	8.750	60.13	104.1	377	942	1883	2825	3767	4709	10
12	1.000	10.75	90.76	125.5	569	1421	2843	4264	5686	7107	12