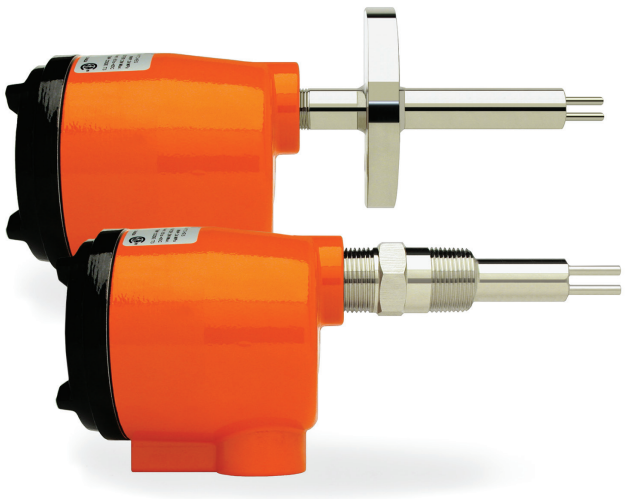
Flow to Velocity Quick Reference Guide



CLASSIC™ Series

Thermal Flow, Level, Interface & Temperature Switches & Transmitters

C US

CRN
Canadian
Registration
Number

FM APPROVED

KAYDEN®
Helping the World Switch™

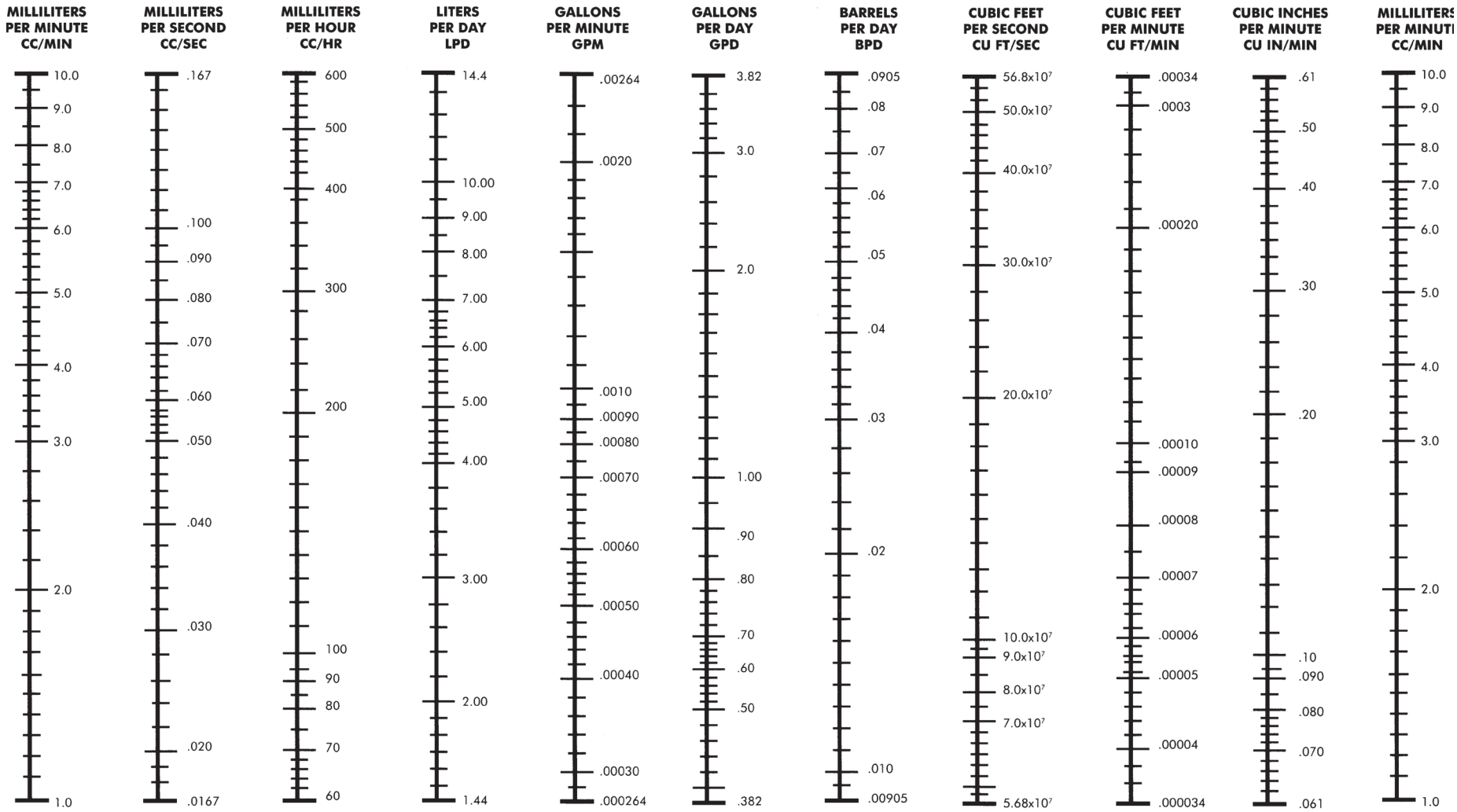
KAYDEN | Flow of Water Through Schedule 40 Steel Pipe

Discharge			Pressure Drop per 100 feet and Velocity in Schedule 40 Pipe for Water at 60°F															
			Velocity	Press Drop	Velocity	Press Drop	Velocity	Press Drop	Velocity	Press Drop	Velocity	Press Drop	Velocity	Press Drop	Velocity	Press Drop	Velocity	Press Drop
Litres per Minute	US Gallons per Minute	Cubic Feet per Second	Feet per Second	Lbs. per Sq. Inch	Feet per Second	Lbs. per Sq. Inch	Feet per Second	Lbs. per Sq. Inch	Feet per Second	Lbs. per Sq. Inch	Feet per Second	Lbs. per Sq. Inch	Feet per Second	Lbs. per Sq. Inch	Feet per Second	Lbs. per Sq. Inch	Feet per Second	Lbs. per Sq. Inch
			1/8"		1/4"		3/8"		1/2"									
0.757	0.2	0.000446	1.13	1.86	0.616	0.359												
1.136	0.3	0.000668	1.69	4.22	0.924	0.903	0.504	0.159	0.317	0.061	3/4"							
1.514	0.4	0.000891	2.26	6.98	1.23	1.61	0.672	0.345	0.422	0.086								
1.893	0.5	0.00111	2.82	10.05	1.54	2.39	0.840	0.539	0.528	0.167	0.301	0.033						
2.271	0.6	0.00134	3.39	14.70	1.85	3.29	1.01	0.751	0.633	0.240	0.361	0.041						
3.028	0.8	0.00178	4.52	25.0	2.46	5.44	1.34	1.25	0.844	0.408	0.481	0.102	1					
3.785	1	0.00223	5.65	37.2	3.08	8.28	1.68	1.85	1.06	0.600	0.602	0.155	0.371	0.048	1 1/4"		1 1/2"	
7.571	2	0.00446	11.29	134.4	6.16	30.1	3.36	6.58	2.11	2.10	1.20	0.526	0.743	0.164	0.429	0.044		
11.356	3	0.00668			9.25	64.1	5.04	13.9	3.17	4.33	1.81	1.09	1.114	0.336	0.644	0.090	0.473	0.043
15.142	4	0.00891			12.33	111.2	6.72	23.9	4.22	7.42	2.41	1.83	1.49	0.565	0.858	0.150	0.630	0.071
18.927	5	0.01114	2"				8.40	36.7	5.28	11.2	3.01	2.75	1.86	0.835	1.073	0.223	0.788	0.104
22.712	6	0.01337	0.574	0.044	2 1/2"		10.08	51.9	6.33	15.8	3.61	3.84	2.23	1.17	1.29	0.309	0.946	0.145
30.283	8	0.01782	0.765	0.073			13.44	91.1	8.45	27.7	4.81	6.60	2.97	1.99	1.72	0.518	1.26	0.241
37.854	10	0.02228	0.956	0.108	0.670	0.046			10.56	42.4	6.02	9.99	3.71	2.99	2.15	0.774	1.58	0.361
56.781	15	0.03342	1.43	0.224	1.01	0.094	3"				9.03	21.6	5.57	6.36	3.22	1.63	2.37	0.755
75.708	20	0.04456	1.91	0.375	1.34	0.158	0.868	0.056	3 1/2"		12.03	37.8	7.43	10.9	4.29	2.78	3.16	1.28
94.635	25	0.05570	2.39	0.561	1.68	0.234	1.09	0.083	0.812	0.041	4"		9.28	16.7	5.37	4.22	3.94	1.93
113.562	30	0.06684	2.87	0.786	2.01	0.327	1.30	0.114	0.974	0.056			11.14	23.8	6.44	5.92	4.73	2.72
132.489	35	0.07798	3.35	1.05	2.35	0.436	1.52	0.151	1.14	0.704	0.882	0.041	12.99	32.2	7.51	7.90	5.52	3.64
151.416	40	0.08912	3.83	1.35	2.68	0.556	1.74	0.192	1.30	0.095	1.01	0.052	14.85	41.5	8.59	10.24	6.30	4.65
170.344	45	0.1003	4.30	1.67	3.02	0.668	1.95	0.239	1.46	0.117	1.13	0.064			9.67	12.80	7.09	5.85
189.27	50	0.1114	4.78	2.03	3.35	0.839	2.17	0.288	1.62	0.142	1.26	0.076	5"		10.74	15.66	7.88	7.15
227.12	60	0.1337	5.74	2.87	4.02	1.18	2.60	0.406	1.95	0.204	1.51	0.107			12.89	22.2	9.47	10.21
264.98	70	0.1560	6.70	3.84	4.69	1.59	3.04	0.540	2.27	0.261	1.76	0.143	1.12	0.047			11.05	13.71
302.83	80	0.1782	7.65	4.97	5.36	2.03	3.47	0.687	2.60	0.334	2.02	0.180	1.28	0.060			12.62	17.59
340.69	90	0.2005	8.60	6.20	6.03	2.53	3.91	0.861	2.92	0.416	2.27	0.224	1.44	0.074	6"		14.20	22.0
378.54	100	0.2228	9.56	7.59	6.70	3.09	4.34	1.05	3.25	0.509	2.52	0.272	1.60	0.090	1.11	0.036	15.78	26.9
473.18	125	0.2785	11.97	11.76	8.38	4.71	5.43	1.61	4.06	0.769	3.15	0.415	2.01	0.135	1.39	0.055	19.72	41.4
567.81	150	0.3342	14.36	16.70	10.05	6.69	6.51	2.24	4.87	1.08	3.78	0.580	2.41	0.190	1.67	0.077		
662.45	175	0.3899	16.75	22.3	11.73	8.97	7.60	3.00	5.68	1.44	4.41	0.774	2.81	0.253	1.94	0.102		
757.08	200	0.4456	19.14	28.8	13.42	11.68	8.68	3.87	6.49	1.85	5.04	0.985	3.21	0.323	2.22	0.130	8"	
851.72	225	0.5013	.....	.....	15.09	14.63	9.77	4.83	7.30	2.32	5.67	1.23	3.61	0.401	2.50	0.162	1.44	0.043
946.35	250	0.557	.....	.....	.....	.....	10.85	5.93	8.12	2.84	6.30	1.46	4.01	0.495	2.78	0.195	1.60	0.051
1,041	275	0.6127	.....	.....	.....	.....	11.94	7.14	8.93	3.40	6.93	1.79	4.41	0.583	3.05	0.234	1.76	0.061
1,136	300	0.6684	.....	.....	.....	.....	13.00	8.36	9.74	4.02	7.56	2.11	4.81	0.683	3.33	0.275	1.92	0.072
1,230	325	0.7241	.....	.....	.....	.....	14.12	9.89	10.53	4.09	8.19	2.47	5.21	0.797	3.61	0.320	2.08	0.083
1,325	350	0.7798			.....	.....	.....	.....	11.36	5.41	8.82	2.84	5.62	0.919	3.89	0.367	2.24	0.095
1,420	375	0.8355			.....	.....	.....	.....	12.17	6.18	9.45	3.25	6.02	1.05	4.16	0.416	2.40	0.108
1,514	400	0.8912			.....	.....	.....	.....	12.98	7.03	10.08	3.68	6.42	1.19	4.44	0.471	2.56	0.121
1,609	425	0.9469			.....	.....	.....	.....	13.80	7.89	10.71	4.12	6.82	1.33	4.72	0.529	2.73	0.136
1,703	450	1.003	10"		.....	.....	.....	.....	14.61	8.80	11.34	4.60	7.22	1.48	5.00	0.590	2.89	0.151
1,798	475	1.059	1.93	0.054			.....	.....	.....	.....	11.97	5.12	7.62	1.64	5.27	0.653	3.04	0.166
1,893	500	1.114	2.03	0.059			.....	.....	.....	.....	12.60	5.65	8.02	1.81	5.55	0.720	3.21	0.182
2,082	550	1.225	2.24	0.071			.....	.....	.....	.....	13.85	6.79	8.82	2.17	6.11	0.861	3.53	0.219
2,271	600	1.337	2.44	0.083			.....	.....	.....	.....	15.12	8.04	9.63	2.55	6.66	1.02	3.85	0.258
2,461	650	1.448	2.64	0.097	12"		.....	.....	.....	.....	.....	.....	10.43	2.98	7.22	1.18	4.17	0.301
2,650	700	1.560	2.85	0.112	2.01	0.047			.....	.....	.....	.....	11.23	3.43	7.78	1.35	4.49	0.343
2,839	750	1.671	3.05	0.127	2.15	0.054	14"		.....	.....	.....	.....	12.03	3.92	8.33	1.55	4.81	0.392
3,028	800	1.782	3.25	0.143	2.29	0.061			.....	.....	.....	.....	12.83	4.43	8.88	1.75	5.13	0.443
3,218	850	1.894	3.46	0.160	2.44	0.068	2.02	0.042	.....	.....	.....	.....	13.64	5.00	9.44	1.96	5.45	0.497
3,407	900	2.005	3.66	0.179	2.58	0.075	2.13	0.047	.....	.....	.....	.....	14.44	5.58	9.99	2.18	5.77	0.554
3,596	950	2.117	3.86	0.198	2.72	0.083	2.25	0.052			.....	.....	15.24	6.21	10.55	2.42	6.09	0.613
3,785	1,000	2.228	4.07	0.218	2.87	0.091	2.37	0.057	16"		.....	.....	16.04	6.84	11.10	2.68	6.41	0.675
4,164	1,100	2.451	4.48	0.260	3.15	0.110	2.61	0.068			.....	.....	17.65	8.23	12.22	3.22	7.05	0.807
4,542	1,200	2.674	4.88	0.306	3.44	0.128	2.85	0.080	2.18	0.042	.....	.....	.....	.....	13.33	3.81	7.70	0.948
4,921	1,300	2.896	5.29	0.355	3.73	0.150	3.08	0.093	2.36	0.048	.....	.....	.....	.....	14.43	4.45	8.33	1.11
5,300	1,400	3.119	5.70	0.409	4.01	0.171	3.32	0.107	2.54	0.055					15.55	5.13	8.98	1.28
5,678	1,500	3.342	6.10	0.466	4.30	0.195	3.56	0.122	2.72	0.063	18"				16.66	5.85	9.62	1.46
6,057	1,600	3.656	6.51	0.527	4.59	0.219	3.79	0.138	2.90	0.071					17.77	6.61	10.26	1.65
6,814	1,800	4.010	7.32	0.663	5.16	0.276	4.27	0.172	3.27	0.088	2.58	0.050			19.99	8.37	11.54	2.08
7,571	2,000	4.456	8.14	0.808	5.73	0.339	4.74	0.209	3.63	0.107	2.87	0.060	20"		22.21	10.3	12.82	2.55
9,464	2,500	5.570	10.17	1.24	7.17	0.515	5.93	0.321	4.54	0.163	3.59	0.091					16.03	3.94
11,356	3,000	6.684	12.20	1.76	8.60	0.731	7.11	0.451	5.45	0.232	4.30	0.129	3.46	0.075	24"		19.24	5.59
13,249	3,500	7.798	14.24	2.38	10.03	0.982	8.30	0.607	6.35	0.312	5.02	0.173	4.04	0.101			22.44	7.56
15,142	4,000	8.912	16.27	3.08	11.47	1.27	9.48	0.787	7.26	0.401	5.74	0.222	4.62	0.129	3.19	0.052	25.65	9.80
17,034	4,500	10.03	18.31	3.87	12.90	1.60	10.67	0.990	8.17	0.503	6.46	0.280	5.20	0.162	3.59	0.065	28.87	12.2
18,927	5,000	11.14	20.35	4.71	14.33	1.95	11.85	1.21	9.08	0.617	7.17	0.340	5.77	0.199	3.99	0.079	.....	.....
22,712	6,000	13.37	24.41	6.74	17.20	2.77	14.23	1.71	10.89	0.877	8.61	0.483	6.93	0.280	4.79	0.111	.....	.....
26,498	7,000	15.60	28.49	9.11	20.07	3.74	16.60	2.31	12.71	1.18	10.04	0.652	8.08	0.376	5.59	0.150	.....	.....
30,283	8,000	17.82	.....	.....	22.93	4.84	18.96	2.99	14.52	1.51	11.47	0.839	9.23	0.488	6.38	0.192	.....	.....
34,069	9,000	20.05	.....	.....	25.79	6.09	21.34	3.76	16.34	1.90	12.91	1.05	10.39	0.608	7.18	0.242	.....	.....
37,854	10,000	22.28	.....	.....	28.66	7.46	23.71	4.61	18.15	2.34	14.34	1.28	11.54	0.739	7.98	0.294	.....	.....
45,425	12,000	26.74	.....	.....	34.40	10.7	28.45	6.59	21.79	3.33	17.21	1.83	13.85	1.06	9.58	0.416	.....	.....
52,996	14,000	31.19	.....	.....	.....	.....	33.19	8.89	25.42	4.49	20.08	2.45	16.16	1.43	11.17	0.562	.....	.....
60,567	16,000	35.65	.....	.....	.....	.....	.....	.....	29.05	5.83	22.95	3.18	18.47	1.85	12.77	0.723	.....	.....
68,137	18,000	40.10	.....	.....	.....	.....	.....	.....	32.68	7.31	25.82	4.03	20.77	2.32	14.36	0.907	.....	.....
75,708	20,000	44.56	.....	.....	.....	.....	.....	.....	36.31	9.03	28.69	4.93	23.08	2.86	15.96	1.12	.....	.....

For pipe lengths other than 100 feet, the pressure drop is proportional to the length. Thus, for 50 feet of pipe, the pressure drop is approximately one-half the value given in the table... for 300 feet, three times the given value, etc.

Velocity is a function of the cross sectional flow area; thus, it is constant for a given flow rate and is independent of pipe length.

KAYDEN | Volume Flow Table



This line chart provides an easy method of converting units for volume flow. Simply draw a line perpendicular to the scale lines through a known value of flow and read the equivalent value on any of the other scales.

KAYDEN®
Helping the World Switch®

V_f In **feet per second** (Velocity)

D In inches (pipe I.D.)

D^2	x	2.448	x	V_f	= gpm (US)
D^2	x	2.0384	x	V_f	= gpm (Imperial)
D^2	x	9.2665	x	V_f	= litres/minute
D^2	x	.00927	x	V_f	= m^3/minute
D^2	x	.327	x	V_f	= ft^3/minute

V_m In **metres per second** (Velocity)

D In inches (pipe I.D.)

D^2	x	8.0315	x	V_m	= gpm (US)
D^2	x	6.688	x	V_m	= gpm (Imperial)
D^2	x	30.4018	x	V_m	= litres/minute
D^2	x	.0304	x	V_m	= m^3/minute

Conversion Factors

To Convert	Into	Multiply By
Gallons/Day	cc second	0.0438
Gallons/Hour		1.0502
Gallons/Minute		63.102
Litre/Day		0.0116
Litre/Hour		0.2778
Litre/Minute		16.667
SCIM		0.2731
SCFM		471.95

Carbon Steel & PVC■ Pipe

Pipe	Size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	42
	Out. Dia.	.840	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.000	4.500	5.563	6.625	8.625	10.750	12.750	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	34.000	36.000	42.000
Standard	I.D.	.622	.824	1.049	1.380	1.610	2.067	2.469	3.068	3.548	4.026	5.047	6.065	7.981	10.020	12.000	13.250	15.250	17.250	19.250	21.250	23.250	25.250	27.250	29.250	31.250	33.250	35.250	41.250
	Wall	.109	.113	.113	.140	.145	.154	.203	.216	.226	.237	.258	.28	.322	.365	.375	.375	.375	.375	.375	.375	.375	.375	.375	.375	.375	.375	.375	◆.375
Extra Heavy	I.D.	.546	.742	.957	1.278	1.500	1.939	2.323	2.900	3.364	3.826	4.813	5.761	7.625	9.750	11.750	13.000	15.000	17.000	19.000	21.000	23.000	25.000	27.000	29.000	31.000	33.000	35.000	41.000
	Wall	.147	.154	.179	.191	.200	.218	.276	.300	.318	.337	.375	.432	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	.500	◆.500
Double Extra Heavy	I.D.	.252	.434	.599	.896	1.100	1.503	1.771	2.300	2.728	3.152	4.063	4.897	6.875	8.750	10.750													
	Wall	.294	.308	.358	.382	.400	.436	.552	.600	.636	.674	.750	.864	.875	1.000	1.000													
Schedule 10	I.D.																13.500	15.500	17.500	19.500	21.500	23.500	25.376	27.376	29.376	31.376	33.376	35.376	
	Wall																.250	.250	.250	.250	.250	.250	.312	.312	.312	.312	.312	.312	
Schedule 20	I.D.													8.125	10.250	12.250	13.376	15.376	17.376	19.250	21.250	23.250	25.000	27.000	29.000	31.000	33.000	35.000	41.000
	Wall													.250	.250	.250	.312	.312	.312	֍.375	֍.375	֍.375	▲.500	▲.500	▲.500	▲.500	▲.500	▲.500	▲.500
Schedule 30	I.D.													8.071	10.136	12.090	13.250	15.250	17.124	19.000	21.000	22.876		26.750	28.750	30.750	32.750	34.750	40.750
	Wall													.277	.307	.330	֍.375	֍.375	.438	▲.500	▲.500	.562		.625	.625	.625	.625	.625	◆.625
Schedule 40	I.D.	.622	.824	1.049	1.380	1.610	2.067	2.469	3.068	3.548	4.026	5.047	6.065	7.981	10.020	11.938	13.124	15.000	16.876	18.814		22.626							
	Wall	֍.109	֍.113	֍.133	֍.140	֍.145	֍.154	֍.203	֍.216	֍.226	֍.237	֍.258	֍.280	֍.322	֍.365	.406	.438	▲.500	.562	.593		.687							
Schedule 60	I.D.													7.813	9.750	11.626	12.814	14.688	16.500	18.376	20.250	22.064							
	Wall													.406	▲.500	.562	.593	.656	.750	.812	.875	.968							
Schedule 80	I.D.	.546	.742	.957	1.278	1.500	1.939	2.323	2.900	3.364	3.826	4.813	5.761	7.625	9.564	11.376	12.500	14.314	16.126	17.938	19.750	21.564							
	Wall	▲.147	▲.154	▲.179	▲.191	▲.200	▲.218	▲.276	▲.300	▲.318	▲.337	▲.375	▲.432	▲.500	.593	.687	.750	.843	.937	1.031	1.125	12.180							
Schedule 100	I.D.													7.439	9.314	11.064	12.126	13.938	15.688	17.438	19.250	20.938							
	Wall													.593	.718	.843	.937	1.031	1.156	1.281	1.375	1.531							
Schedule 120	I.D.										3.624	4.563	5.501	7.189	9.064	10.750	11.814	13.564	15.250	17.000	18.750	20.376							
	Wall										.438	.500	.562	.718	.843	1.000	1.093	1.218	1.375	1.500	1.625	1.812							
Schedule 140	I.D.													7.001	8.750	10.500	11.500	13.124	14.876	16.500	18.250	19.876							
	Wall													.812	1.000	1.125	1.250	1.438	1.562	1.750	1.875	20.620							
Schedule 160	I.D.	.466	.614	.815	1.160	1.338	1.689	2.125	2.624		3.438	4.313	5.189	6.813	8.500	10.126	11.188	12.814	14.438	16.064	17.750	19.314							
	Wall	.187	.218	.250	.250	.281	.343	.375	.438		.530	.625	.718	.906	1.125	1.312	1.406	1.593	1.781	1.968	2.125	2.343							

NOTES:
- ֍ Wall thickness identical with thickness of Standard-Weight pipe.
- ▲ Wall thickness identical with thickness of Extra-Heavy pipe.
- ◆ These do not conform to American Standard B36.10.
- ■ These materials are generally available in schedule 40 and 80 only.
- (a) Wall thickness of schedule 5S & 10S does not permit threading in accordance with the American Std. for PIpe Threads (ASA No. B2.1).

PIPE WEIGHT FORMULA FOR STEEL PIPE
(Pounds per foot)

10.68 (D-t) t

D = Outside Diameter

t = Wall Thickness

Stainless Steel, Hastelloy C & Titanium Pipe■

Pipe	Size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	22	24
	Out. Dia.	.840	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.000	4.500	5.563	6.625	8.625	10.750	12.750	14.000	16.000	18.000	20.000	22.000	24.000
Schedule 5 S (a)	I.D.	.710	.920	1.185	1.530	1.770	2.245	2.709	3.334	3.834	4.334	5.345	6.407	8.407	10.482	12.438	13.688	15.670	17.670	19.634	21.624	23.563
	Wall	.065	.065	.065	.065	.065	.065	.083	.083	.083	.083	.109	.109	.109	.134	.156	.156	.165	.165	.188	.188	.218
Schedule 10 S (a)	I.D.	.674	.884	1.097	1.442	1.682	2.157	2.635	3.260	3.760	4.260	5.295	6.357	8.329	10.420	12.390	13.624	15.624	17.624	19.624	21.564	23.500
	Wall	.083	.083	.109	.109	.109	.109	.120	.120	.120	.120	.134	.134	.148	.165	.180	.188	.188	.188	.188	.218	.250
Schedule 40 S	I.D.	.622	.824	1.049	1.380	1.610	2.067	2.469	3.068	3.548	4.026	5.047	6.065	7.981	10.020	12.000						
	Wall	֍.109	֍.133	֍.133	֍.140	֍.145	֍.154	֍.203	֍.216	֍.226	֍.237	֍.258	֍.280	֍.322	֍.365	◆.375						
Schedule 80 S	I.D.	.546	.742	.957	1.278	1.500	1.939	2.323	2.900	3.364	3.826	4.813	5.761	7.625	9.750	11.750						
	Wall	▲.147	▲.154	▲.179	▲.191	▲.200	▲.218	▲.276	▲.300	▲.318	▲.337	▲.375	▲.432	▲.500	▲.500	◆.500						

Non-Standard Carbon Steel Pipe

Size	10	20	24	24
Out. Dia.	10.750	20.000	24.000	24.000
I.D.	10.102	19.375	23.375	22.126
Wall	.279	.312	.312	.937

Above sizes are produced by pipe mills but dimensions do not conform to any regular standard or schedule.

Cast Iron Pipe – AWWA Standard

Pipe Size	Class A 100 Ft. 43 PSIG			Class B 200 Ft. 86 PSIG			Class C 300 Ft. 130 PSIG			Class D 400 Ft. 173 PSIG			Class E 500 Ft. 217 PSIG			Class F 600 Ft. 260 PSIG			Class G 700 Ft. 304 PSIG			Class H 800 Ft. 347 PSIG		
	O.D.	Wall	I.D.	O.D.	Wall	I.D.	O.D.	Wall	I.D.	O.D.	Wall	I.D.	O.D.	Wall	I.D.	O.D.	Wall	I.D.	O.D.	Wall	I.D.	O.D.	Wall	I.D.
3	3.80	.39	3.02	3.96	.42	3.12	3.96	.45	3.06	3.96	.48	3.00												
4	4.80	.42	3.96	5.00	.45	4.10	5.00	.48	4.04	5.00	.52	3.96												
6	6.90	.44	6.02	7.10	.48	6.14	7.10	.51	6.08	7.10	.55	6.00	7.22	.58	6.06	7.22	.61	6.00	7.38	.65	6.08	7.38	.69	6.00
8	9.05	.46	8.13	9.05	.51	8.03	9.30	.56	8.18	9.30	.60	8.10	9.42	.66	8.10	9.42	.71	8.00	9.60	.75	8.10	9.60	.80	8.00
10	11.10	.50	10.10	11.10	.57	9.96	11.40	.62	10.16	11.40	.68	10.04	11.60	.74	10.12	11.60	.80	10.00	11.84	.86	10.12	11.84	.92	10.00
12	13.20	.54	12.12	13.20	.62	11.96	13.50	.68	12.14	13.50	.75	12.00	13.78	.82	12.14	13.78	.89	12.00	14.08	.97	12.14	14.08	1.04	12.00
14	15.30	.57	14.16	15.30	.66	13.98	15.65	.74	14.17	15.65	.82	14.01	15.98	.90	14.18	15.98	.99	14.00	16.32	1.07	14.18	16.32	1.16	14.00
16	17.40	.60	16.20	17.40	.70	16.00	17.80	.80	16.20	17.80	.89	16.02	18.16	.98	16.20	18.16	1.08	16.00	18.54	1.18	16.18	18.54	1.27	16.00
18	19.50	.64	18.22	19.50	.75	18.00	19.92	.87	18.18	19.92	.96	18.00	20.34	1.07	18.20	20.34	1.17	18.00	20.78	1.28	18.22	20.78	1.39	18.00
20	21.60	.67	20.26	21.60	.80	20.00	22.06	.92	20.22	22.06	1.03	20.00	22.54	1.15	20.24	22.54	1.27	20.00	23.02	1.39	20.24	23.02	1.51	20.00
24	25.80	.76	24.28	25.80	.89	24.02	26.32	1.04	24.22	26.32	1.16	24.00	26.90	1.31	24.28	26.90	1.45	24.00	27.76	1.75	24.26	27.76	1.88	24.00
30	31.74	.88	29.98	32.00	1.03	29.94	32.40	1.20	30.00	32.74	1.37	30.00	33.10	1.55	30.00	33.46	1.73	30.00						
36	37.96	.99	35.98	38.30	1.15	36.00	38.70	1.36	39.98	39.16	1.58	36.00	39.60	1.80	36.00	40.04	2.02	36.00						
42	44.20	1.10	42.00	44.50	1.28	41.94	45.10	1.54	42.02	45.58	1.78	42.02												
48	50.50	1.26	47.98	50.80	1.42	47.96	51.40	1.71	47.98	51.98	1.96	48.06												
54	56.66	1.35	53.96	57.10	1.55	54.00	57.80	1.90	54.00	58.40	2.23	53.94												
60	62.80	1.39	60.02	63.40	1.67	60.06	64.20	2.00	60.20	64.82	2.38	60.06												
72	75.34	1.62	72.10	76.00	1.95	72.10	76.88	2.39	72.10															
84	87.54		84.10	88.54	2.22	84.10																		

Cast Iron Pipe – ASA Standard

Pipe Size	Pipe O.D.	Class 50 50 PSIG		Class 100 100 PSIG		Class 150 150 PSIG		Class 200 200 PSIG		Class 250 250 PSIG		Class 300 300 PSIG		Class 350 350 PSIG	
		Wall	I.D.	Wall	I.D.	Wall	I.D.	Wall	I.D.	Wall	I.D.	Wall	I.D.	Wall	I.D.
3	3.96	.32	3.32	.32	3.32	.32	3.32	.32	3.32	.32	3.32	.32	3.32	.32	3.32
4	4.80	.35	4.10	.35	4.10	.35	4.10	.35	4.10	.35	4.10	.35	4.10	.35	4.10
6	6.90	.38	6.14	.38	6.14	.38	6.14	.38	6.14	.38	6.14	.38	6.14	.38	6.14
8	9.05	.41	8.23	.41	8.23	.41	8.23	.41	8.23	.41	8.23	.41	8.23	.41	8.23
10	11.10	.44	10.22	.44	10.22	.44	10.22	.44	10.22	.44	10.22	.48	10.14	.52	10.06
12	13.20	.48	12.24	.48	12.24	.48	12.24	.48	12.24	.52	12.16	.52	12.16	.56	12.08
14	15.30	.48	14.34	.51	14.34	.51	14.34	.55	14.20	.59	14.12	.59	14.12	.64	14.02
16	17.40	.54	16.32	.54	16.32	.54	16.32	.58	16.24	.63	16.14	.68	16.04	.68	16.04
18	19.50	.54	18.42	.58	18.34	.58	18.34	.63	18.24	.68	18.14	.73	18.04	.79	17.92
20	21.60	.57	20.46	.62	20.36	.62	20.36	.67	20.26	.72	20.16	.78	20.04	.84	19.92
24	25.80	.63	24.54	.68	24.44	.73	24.34	.79	24.22	.79	24.22	.85	24.10	.92	23.96

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