

ASTM A106 Grade B Hot Finished Seamless Steel Tube Dimensions

Nominal Bore Mm Inches	Outside Dia Mm	Wall Thickness Mass	Schd 10	20	30	Std/Wt	40	Extra Strong	60	80	100	120	140	160	Double X Strong
8mm ¼"	13.72	mm kg/m				2.24 0.63	2.24 0.63	3.02 0.8		3.02 0.8					
10mm 3/8"	17.5	Mm kg/m				2.31 0.85	2.31 0.85	3.2 1.1		3.2 1.1					
15mm ½"	21.34	Mm kg/m				2.77 1.27	2.77 1.27	3.73 1.62		3.73 1.62				4.75 1.94	7.47 2.55
20mm ¾"	26.67	Mm kg/m				2.87 1.69	2.87 1.69	3.91 2.2		3.91 2.2				5.56 2.9	7.82 3.63
25mm 1"	33.4	Mm kg/m				3.38 2.5	3.38 2.5	4.55 3.24		4.55 3.24				6.35 4.24	9.09 6.45
32mm 1 ¼"	42.16	Mm kg/m				3.56 3.39	3.56 3.39	4.85 4.47		4.85 4.47				6.35 5.61	9.7 7.76
40mm 1 ½"	48.26	Mm kg/m				3.69 4.05	3.69 4.05	5.08 5.41		5.08 5.41				7.14 7.25	10.15 9.56
50mm 2"	60.33	Mm kg/m				3.91 5.44	3.91 5.44	5.54 7.48		5.54 7.48				8.74 11.11	11.07 13.44
65mm 2 ½"	73.03	Mm kg/m				5.16 8.63	5.16 8.63	7.01 11.41		7.01 11.4				9.53 14.92	14.02 20.39
80mm 3"	88.9	Mm kg/m				5.49 11.29	5.49 11.29	7.62 15.27		7.62 15.27				11.13 21.35	15.24 27.68
90mm 3 ½"	101.6	Mm kg/m				5.74 13.57	5.74 13.57	8.08 18.63		8.08 18.63					
100mm 4"	114.3	Mm kg/m				6.02 16.07	6.02 16.07	8.56 22.32		8.56 22.32		11.13 28.32		13.49 33.54	17.12 41.03
125mm 5"	141.3	Mm kg/m				6.55 21.77	6.55 21.77	9.53 30.97		9.53 30.97		12.7 40.28		15.88 49.11	19.05 57.43
150mm 6"	168.3	Mm kg/m				7.11 28.26	7.11 28.26	10.97 42.56		10.97 42.56		14.27 54.2		18.26 67.56	21.95 79.22
200mm 8"	219.1	Mm kg/m		6.35 33.31	7.04 36.81	8.18 42.55	8.18 42.55	12.7 64.64	10.31 58.08	12.7 64.64	15.09 75.92	18.26 90.44	20.62 110.92	23.01 111.27	22.23 107.92
250mm 10"	273.1	Mm kg/m		6.35 41.77	7.8 51.03	9.27 60.31	9.27 60.31	12.7 81.55	12.7 81.55	15.09 96.001	18.26 114.75	21.44 133.06	25.4 155.15	28.58 172.33	25.4 155.15
300mm 12"	323.9	Mm kg/m		6.35 49.73	8.38 65.2	9.53 73.88	10.31 79.73	12.7 97.46	14.27 108.97	17.48 131.08	21.44 159.91	25.4 186.77	28.58 208.14	33.32 238.76	25.4 186.97
350mm 14"	355.6	Mm kg/m		6.35 54.69	7.92 67.9	9.53 81.33	11.13 81.33	12.7 94.55	15.09 107.39	19.05 158.1	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.7	
400mm 16"	406.4	Mm kg/m		6.35 62.64	7.92 77.83	9.53 93.27	12.7 93.27	12.7 123.3	16.66 160.12	21.44 203.53	26.19 245.56	30.96 286.64	36.53 333.19	40.49 365.35	
450mm 18"	457.2	Mm kg/m		6.35 70.57	7.92 87.11	11.13 122.38	9.53 105.16	12.7 155.8	19.05 139.15	23.83 205.74	29.36 309.62	34.93 363.56	39.67 408.26	45.24 459.37	
500mm 20"	508	Mm kg/m		6.35 78.55	9.53 117.15	12.7 155.12	9.53 117.15	15.09 183.42	12.7 155.12	20.62 247.83	26.19 311.17	32.54 381.53	38.1 441.49	44.45 508.11	50.01 564.81
550mm 22"	558.8	Mm kg/m		6.35 94.37	9.53 141.12	14.27 209.64	9.53 141.12	17.48 255.41	12.7 187.06	24.61 355.26					
600mm 24"	609.6	Mm kg/m		7.92 127.36	12.7 202.72		9.53 152.87	12.7 202.72							
650mm 26"	660.4	Mm kg/m		7.9 127.04	9.5 152.39	12.7 202.72	9.5 152.39	12.7 202.72							
700mm 28"	711.2	Mm kg/m		7.92 137.32	12.7 218.69	15.88 271.21	9.53 164.85	12.7 218.69							
750mm 30"	762	Mm kg/m		7.92 147.28	12.7 234.67	15.88 292.18	9.53 176.84	12.7 234.67							
800mm 31"	813	Mm kg/m		7.92 157.24	12.7 260.64	15.88 312.15	9.53 188.92	17.48 342.91	12.7 250.64						
850mm 34"	864	Mm kg/m		7.92 167.2	12.7 266.61	15.88 332.12	9.53 200.31	17.48 364.9	12.7 266.61						
900mm 36"	914	Mm kg/m		7.92 176.96	12.7 282.27	15.88 351.7	9.53 212.56	19.05 420.42	12.7 282.27						

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ASTM A106 Grade B Hot Finished Seamless Steel Tube Pressure & Temperature Ratings

Ratings are given for standard seamless pipes at temperature ranging 100 deg F -750 deg F.
Ratings in psig based on ANSI/ASME B 31.1

Maximum Allowable Pressure (psig)										
Pipe Size (inches)	Pipe Schedule	Temperature (deg F)								
		100	200	300	400	500	600	650	700	750
1/2"	40	2984	2984	2984	2984	2984	2984	2984	2910	2661
	80	4202	4202	4202	4202	4202	4202	4202	4097	3747
	160	5536	5536	5536	5536	5536	5536	5536	5397	4936
3/4"	40	2447	2447	2447	2447	2447	2447	2447	2386	2182
	80	3439	3439	3439	3439	3439	3439	3439	3354	3067
	160	5115	5115	5115	5115	5115	5115	5115	4987	4560
1"	40	2857	2857	2857	2857	2857	2857	2857	2743	2476
	80	3950	3950	3950	3950	3950	3950	3950	3792	3423
	160	5757	5757	5757	5757	5757	5757	5757	5526	4989
1 1/2"	40	2116	2116	2116	2116	2116	2116	2116	2032	1834
	80	2983	2983	2983	2983	2983	2983	2983	2864	2585
	160	4331	4331	4331	4331	4331	4331	4331	4157	3753
2"	40	1783	1783	1783	1783	1783	1783	1783	1712	1545
	80	2575	2575	2575	2575	2575	2575	2575	2472	2232
	160	4217	4217	4217	4217	4217	4217	4217	4049	3655
3"	40	1693	1693	1693	1693	1693	1693	1693	1625	1467
	80	2394	2394	2394	2394	2394	2394	2394	2298	2074
	160	3600	3600	3600	3600	3600	3600	3600	3456	3120
4"	40	1435	1435	1435	1435	1435	1435	1435	1378	1244
	80	2075	2075	2075	2075	2075	2075	2075	1992	1798
	160	3376	3376	3376	3376	3376	3376	3376	3241	2926
5"	40	1258	1258	1258	1258	1258	1258	1258	1208	1090
	80	1857	1857	1857	1857	1857	1857	1857	1783	1610
	160	3201	3201	3201	3201	3201	3201	3201	3073	2774
6"	40	1143	1143	1143	1143	1143	1143	1143	1098	991
	80	1794	1794	1794	1794	1794	1794	1794	1722	1554
	160	3083	3083	3083	3083	3083	3083	3083	2960	2672
8"	40	1006	1006	1006	1006	1006	1006	1006	966	872
	80	1586	1586	1586	1586	1586	1586	1586	1523	1375
	160	2976	2976	2976	2976	2976	2976	2976	2857	2579
10"	40	913	913	913	913	913	913	913	876	791
	80	1509	1509	1509	1509	1509	1509	1509	1448	1308
	160	2950	2950	2950	2950	2950	2950	2950	2832	2557

STD (standard) = schedule 40 XS (extra strong) = schedule 80

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