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ASTM A53 GRADE A-2012 (API)

Nominal Size	Outside Diameter	Wall Thickness		Nominal Weight	Hydro Test Pressure	
		mm	Schedule		psi	kg./cm ²
1/2"	21.3	2.77	40	0.997	700	49
		3.73	80	1.62	850	60
3/4"	26.7	2.87	40	1.69	700	49
		3.91	80	2.20	850	60
1"	33.4	3.38	40	2.50	700	49
		4.55	80	3.24	850	60
1 1/4"	42.2	3.56	40	3.39	1200	84
		4.85	80	4.47	1800	127
1 1/2"	48.3	3.68	40	4.05	1200	84
		5.08	80	5.41	1800	127
2"	60.3	3.91	40	5.44	2300	162
		5.54	80	7.48	2500	176
2 1/2"	73.0	5.16	40	8.63	2500	176
		7.01	80	11.41	2500	176

Nominal Size	Outside Diameter	Wall Thickness		Nominal Weight	Hydro Test Pressure	
		mm	Schedule		kg./m	psi
3"	88.9	5.49	40	11.29	2220	156
		10.26	80	15.27	2500	176
3 1/2"	101.6	5.74	40	13.57	2030	143
		8.08	80	18.63	2800	197
4"	114.3	6.02	40	16.07	1900	134
		8.56	80	22.32	2700	190
5"	141.3	6.55	40	21.77	1670	117
		9.52	80	30.94	2430	171
6"	168.3	7.11	40	28.26	1520	107
		10.97	80	42.56	2350	165
8"	219.1	8.18	40	42.55	1340	94
		12.70	80	64.64	2090	147

Dimension Tolerances for ASTM A53 Carbon Steel Pipe for Pressure Purposes

Outside Diameter	≤ 1 ½ in : ± 0.40mm
	> 2 in : ± 1% from standard specified
Thickness	+ Not limit
	-12.5%
Weight	± 10% mm

ASTM A53 Carbon Steel Pipe for Pressure Purposes

Material of Grade	Chemical Composition (%)					Mechanical Properties		
	C	Si	Mn	P	S	Yield	Tensile	Elongation
	Max	Max	Max	Max	Max	Strength	Strength	%
Grade A	0.25	-	0.95	0.05	0.045	205	330	
Grade B	0.3	-	1.2	0.05	0.045	240	415	