

## Stainless Steel Seamless Pipes

Ratnamani is one of the major manufacturers of Stainless Steel Seamless Pipes for application in Power generation Nuclear, Thermal and Solar, Refinery and Petrochemical, Oil and Gas, Chemical and Fertilizer and Process Industries.

Ratnamani manufactures Austenitic, Super Austenitic, Duplex and Super Duplex Seamless Stainless Steel pipes.

### Salient Features:

1. Seamless Pipes manufacturing using Hot Extrusion facility up to 2"NB
2. Draw bench facility up to 8" NB
3. Solution Annealing Heat Treatment facility up to 8" NB
4. Various grades offered : Austenitic , Super Austenitic ,Duplex ,Super Duplex Stainless Steels
5. Stabilization Heat Treatment Facility for Stabilized Grades

### MANUFACTURING RANGE:

SIZE / RANGE	THICKNESS	SPECIFICATION
1/8" NB to 1" NB Above 1" NB to 4" NB Above 4" NB to 8" NB	SCH.5S,10S,40S, 80S, SCH.5S, 10S, 40S SCH.5S, 10S, 40S	ASTM A-312, A-790, API 5LC
<b>Grades</b> : TP-304/L/LN/H/N, TP-316/L/LN/H/N/Ti, TP-317L, TP-317LM, TP-321/H, TP-347/H, UNS S31254 UNS S31500, S31803, S32205, S32750, S32760		
* Sizes and Specifications other than above can be manufactured on request		

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### STAINLESS STEEL PIPES : DIMENSION AND WEIGHTS.

Nominal pipe size	Outside diameter		Sch - 5			Sch - 10S			Sch - 10			Sch - 20		Sch - 30		Sch - 40S		Sch - 80		
	inch	mm	mm	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	Wt (Mtr)	Thick (mm)	
15	1/2"	0.840	21.34	0.80	1.65	1.00	2.11	IDENTICAL TO SCH 10S	--	--	--	--	1.27	2.77	1.67	3.73				
20	3/4"	1.050	26.67	1.02	1.65	1.28	2.11		--	--	--	--	1.68	2.87	2.20	3.91				
25	1"	1.315	33.40	1.30	1.65	2.09	2.77		--	--	--	--	2.50	3.38	3.27	4.55				
32	1-1/4"	1.660	42.16	1.65	1.65	2.69	2.77		--	--	--	--	3.38	3.56	4.46	4.85				
40	1-1/2"	1.900	48.26	1.90	1.65	3.10	2.77		--	--	--	--	4.04	3.68	5.41	5.08				
50	2"	2.375	60.33	2.39	1.65	3.92	2.77		--	--	--	--	5.44	3.91	7.48	5.54				
65	2-1/2"	2.875	73.03	3.71	2.11	5.27	3.05		--	--	--	--	8.65	5.16	11.40	7.01				
80	3"	3.500	88.90	4.51	2.11	6.45	3.05		--	--	--	--	11.27	5.49	15.30	7.62				
90	3-1/2"	4.000	101.60	5.25	2.11	7.40	3.05		--	--	--	--	13.55	5.74	18.60	8.08				
100	4"	4.500	114.30	5.92	2.11	8.35	3.05		--	--	--	--	16.06	6.02	22.30	8.56				

125	5"	5.563	141.30	9.60	2.77	11.56	3.40			--	--	--	--	21.75	6.55	31.00	9.53
150	6"	6.625	168.28	11.47	2.77	14.04	3.40			--	--	--	--	28.23	7.11	42.50	10.97
200	8"	8.625	219.08	14.99	2.77	20.26	3.76			33.81	--	36.87	--	42.48	8.18	64.60	12.70
250	10"	10.750	273.05	22.97	3.40	28.20	4.19			42.38	6.35	51.10	7.80	61.20	9.27	96.10	15.06
300	12"	12.750	323.05	33.53	4.20	36.53	4.57			50.45	6.35	65.29	8.38	74.92	9.53	132.10	17.45
350	14"	14.000	355.63	--	--	41.41	4.78	54.77	6.35	68.01	7.92	81.46	9.53	81.46	9.53	154.50	19.05
400	16"	16.000	406.40	--	--	47.41	4.78	62.74	6.35	77.95	7.92	93.41	9.53	93.41	9.53	203.53	21.41
450	18"	18.000	457.20	--	--	53.41	4.78	70.71	6.35	87.88	7.92	122.62	11.13	105.37	9.53	--	--
500	20"	20.000	508.00	--	--	68.75	5.54	78.68	6.35	117.33	9.53	155.37	12.70	117.33	9.53	--	--
550	22"	22.000	558.80	--	--	--	--	86.64	6.35	129.29	9.53	171.30	12.70	129.29	9.53	--	--
600	24"	24.000	609.60	--	--	--	--	94.61	6.35	141.25	9.53	209.83	14.27	141.25	9.53	--	--

STAINLESS STEEL TUBE : DIMENSION AND WEIGHT

Tube size Outside Diameter mm	Thickness in mm												
	0.8	1	1.2	1.5	1.6	2	2.3	2.5	2.6	3	3.2	3.6	4
6	0.104	0.125	-	-	-	-	-	-	-	-	-	-	-
8	0.144	0.175	-	-	-	-	-	-	-	-	-	-	-
10	0.184	0.225	0.264	0.319	-	-	-	-	-	-	-	-	-
12	0.224	0.275	0.325	0.394	-	-	-	-	-	-	-	-	-
13	0.224	0.3	0.355	0.432	-	-	-	-	-	-	-	-	-
14	0.264	0.326	0.385	0.47	-	-	-	-	-	-	-	-	-
15	0.284	0.351	0.415	0.507	-	-	-	-	-	-	-	-	-
16	0.304	0.376	0.445	0.545	0.577	0.701	-	-	-	-	-	-	-
17	0.325	0.404	0.475	0.582	0.617	0.751	-	-	-	-	-	-	-

18	0.345	0.426	0.505	0.62	0.657	0.801	-	-	-	-	-	-	-
19	0.365	0.451	0.535	0.657	0.694	0.851	-	-	-	-	-	-	-
19.05	0.366	0.452	0.536	0.657	0.699	0.854	-	-	-	-	-	-	-
21.3	0.411	0.508	0.604	0.744	0.789	0.967	1.094	1.177	1.217	-	-	-	-
22	0.425	0.526	0.625	0.77	0.817	1.002	-	-	-	-	-	-	-
23	0.445	0.551	0.655	0.808	0.857	1.052	-	-	-	-	-	-	-
25	0.485	0.601	0.715	0.883	0.937	1.152	1.307	1.409	1.458	-	-	-	-
25.4	0.493	0.611	0.727	0.898	0.954	1.172	1.33	1.434	1.484	-	-	-	-
26.9	0.523	0.649	0.772	0.954	1.014	1.247	1.417	1.527	1.582	1.795	-	-	-
28	0.545	0.676	0.805	0.995	1.058	1.302	1.48	1.596	1.654	-	-	-	-
30	0.585	0.726	0.865	1.07	1.138	1.402	1.595	1.722	1.784	2.028	-	-	-
31.8	0.621	0.771	0.919	1.138	1.21	1.492	1.699	1.834	1.901	2.163	-	-	-
32	0.625	0.776	0.925	1.146	1.218	1.502	1.71	1.847	1.914	2.178	-	-	-
33	0.645	0.801	0.956	1.183	1.258	1.552	1.768	1.909	1.979	2.254	2.388	-	-
33.7	0.659	0.819	0.977	1.209	1.286	1.588	1.808	1.953	2.025	2.306	2.444	-	-
34	0.665	0.826	0.986	1.221	1.298	1.603	1.826	1.972	2.044	2.329	2.468	-	-
35	0.685	0.851	1.016	1.258	1.338	1.653	1.883	2.035	2.109	2.404	2.548	-	-
38	0.745	0.926	1.106	1.371	1.458	1.803	2.056	2.222	2.305	2.629	2.788	-	-
40	0.785	0.977	1.166	1.446	1.538	1.903	2.171	2.348	2.435	2.779	2.949	-	-
42	0.825	1.027	1.226	1.521	1.619	2.003	2.286	2.473	2.565	2.93	3.109	-	-
44.5	0.875	1.089	1.301	1.615	1.719	2.128	2.43	2.629	2.728	3.117	3.309	3.387	-
45	0.885	1.102	1.316	1.634	1.739	2.153	2.459	2.661	2.76	3.155	3.349	3.732	-
48.3	0.952	1.184	1.415	1.758	1.871	2.319	2.649	2.867	2.975	3.403	3.614	3.732	-
50	0.986	1.227	1.466	1.822	1.939	2.404	2.747	2.974	3.086	3.531	3.75	4.183	-
50.8	1.002	1.247	1.49	1.852	1.971	2.444	2.793	3.024	3.138	3.591	3.814	4.255	-
54	-	1.327	1.587	1.972	20.99	2.604	2.978	3.224	3.346	3.831	4.071	4.543	-
57	-	1.402	1.677	2.085	2.22	2.754	3.15	3.412	3.542	4.056	4.311	4.814	-
60.3	-	1.485	1.776	2.209	2.352	2.92	3.34	3.618	3.757	4.304	4.575	5.111	-

63.5	-	-	1.872	2.329	2.48	3.08	3.525	3.819	3.965	4.545	4.832	5.4	-
70	-	-	2.067	2.573	2.74	3.405	3.899	4.226	4.388	5.033	5.353	5.986	-
73	-	-	2.157	2.686	2.861	3.556	4.072	4.413	4.583	5.258	5.593	6.256	-
76.1	-	-	2.251	2.802	2.985	3.711	4.25	4.607	4.785	5.491	5.841	6.535	7.222
85	-	-	2.518	3.136	3.341	4.157	4.763	5.165	5.365	6.16	6.554	7.338	8.113
88.9	-	-	2.635	3.283	3.498	4.352	4.987	5.409	5.618	6.453	6.867	7.689	8.504
101.6	-	-	3.016	3.76	4.006	4.988	5.719	6.204	6.445	7.407	7.885	8.834	9.776
	0.8	1	1.2	1.5	1.6	2	2.3	2.5	2.6	3	3.2	3.6	4