

ASTM A312/ A778 WELDED PIPES

STANDARD DIMENSIONS AND WEIGHT

WELDED STAINLESS STEEL PIPE (ASTM A312/A778)

kg/m (approximated)

Outside Diameter		SCH-5S			SCH-10S			SCH-40S		
(inch N.B)	(mm)	Wall Thickness (mm)	304/L	316/L	Wall Thickness (mm)	304/L	316/L	Wall Thickness (mm)	304/L	316/L
1/4	13.72	-	-	-	1.65	0.50	0.50	2.24	0.64	0.64
3/8	17.15	1.20	0.47	0.48	1.65	0.64	0.64	2.31	0.85	0.86
1/2	21.34	1.65	0.81	0.81	2.11	1.01	1.02	2.77	1.28	1.29
3/4	26.67	1.65	1.03	1.03	2.11	1.29	1.30	2.87	1.70	1.71
1"	33.40	1.65	1.31	1.31	2.77	2.11	2.13	3.38	2.53	2.54
1 1/4	42.16	1.65	1.67	1.68	2.77	2.72	2.74	3.56	3.42	3.45
1 1/2	48.26	1.65	1.92	1.93	2.77	3.14	3.16	3.68	4.09	4.11
2"	60.33	1.65	2.41	2.43	2.77	3.97	4.00	3.91	5.50	5.53
2 1/2	73.03	2.11	3.73	3.75	3.05	5.32	5.35	5.16	8.72	8.78
3"	88.90	2.11	4.56	4.59	3.05	6.52	6.56	5.49	11.40	11.50
3 1/2	101.60	2.11	5.23	5.26	3.05	7.49	7.54	5.74	13.70	13.80
4"	114.30	2.11	5.90	5.93	3.05	8.45	8.51	6.02	16.20	16.30
5"	141.30	2.77	9.56	9.62	3.40	11.70	11.80	6.55	22.00	22.10
6"	168.28	2.77	11.40	11.50	3.40	14.00	14.10	7.11	28.50	28.70
8"	219.08	2.77	14.90	15.00	3.76	20.20	20.30	8.18	43.00	43.20
10"	273.05	3.40	22.80	23.00	4.19	28.10	28.20	9.27	60.90	61.30
12"	323.85	3.96	31.60	31.80	4.57	36.30	36.60	9.52	74.50	75.00
14"	355.60	3.96	34.70	34.90	4.78	41.80	42.00	-	-	-
16"	406.40	4.19	42.00	42.30	4.78	47.80	48.10	-	-	-
18"	457.20	4.19	47.30	47.60	4.78	53.90	54.20	-	-	-
20"	508.00	4.78	59.90	60.30	5.54	69.30	69.80	-	-	-
22"	558.80	4.78	66.00	66.40	5.54	76.40	76.80	-	-	-
24"	609.60	5.54	83.40	83.90	6.35	95.40	96.00	-	-	-
30"	762.00	6.35	119.50	120.30	7.92	148.80	149.70	-	-	-

TABLE OF THE CHEMICAL COMPOSITION

Grade	Chemical Composition (%)							
	C	Si	Mn	P	S	Ni	Cr	Mo
TP 304	≤ 0.080	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	8.00~11.00	18.00~20.00	-
TP 304L	≤ 0.035	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	8.00~13.00	18.00~20.00	-
TP 316	≤ 0.080	≤ 0.75	≤ 2.0	≤ 0.045	≤ 0.030	11.00~14.00	16.00~18.00	2.00~3.00
TP 316L	≤ 0.035	≤ 0.75	≤ 2.0	≤ 0.040	≤ 0.030	10.00~15.00	16.00~18.00	2.00~3.00