



STAINLESS STEEL GRADE TP304 PIPES - ASTM A 312, Seamless

ALLOWABLE WORKING PRESSURE AT TEMPERATURE

Temperature (°C):		50 100 150 200 250 300 325 350 375 400 425 450 475 500 525 550 575 600 625 650 675 700 725																										
Design Strength (MPa):		138 138 138 130 122 115 113 111 110 107 105 103 101 100 97 90 78 64 51 41 33 27 21																										
Size		Allowable Working Pressure (MPa)																										
DN	NPS	mm	Sch No	WT (mm)																								
10	¾	17.15	10S	1.65	25.4	25.4	25.4	23.9	22.4	21.1	20.8	20.4	20.2	19.7	19.3	18.9	18.6	18.4	17.8	16.5	14.3	11.8	9.4	7.5	6.1	5.0	3.9	
		17.15	40S	2.31	36.9	36.9	36.9	34.7	32.6	30.7	30.2	29.7	29.4	28.6	28.1	27.5	27.0	26.7	25.9	24.0	20.8	17.1	13.6	11.0	8.8	7.2	5.6	
		17.15	80S	3.20	53.9	53.9	53.9	50.7	47.6	44.9	44.1	43.3	42.9	41.8	41.0	40.2	39.4	39.0	37.9	35.1	30.4	25.0	19.9	16.0	12.9	10.5	8.2	
15	½	21.34	5S	1.65	20.0	20.0	20.0	18.9	17.7	16.7	16.4	16.1	16.0	15.5	15.2	14.9	14.7	14.5	14.1	13.1	11.3	9.3	7.4	6.0	4.8	3.9	3.0	
		21.34	10S	2.11	26.1	26.1	26.1	24.6	23.1	21.8	21.4	21.0	20.8	20.3	19.9	19.5	19.1	18.9	18.4	17.0	14.8	12.1	9.7	7.8	6.3	5.1	4.0	
		21.34	40S	2.77	35.4	35.4	35.4	33.3	31.3	29.5	29.0	28.4	28.2	27.4	26.9	26.4	25.9	25.6	24.9	23.1	20.0	16.4	13.1	10.5	8.5	6.9	5.4	
		21.34	80S	3.73	49.8	49.8	49.8	46.9	44.1	41.5	40.8	40.1	39.7	38.6	37.9	37.2	36.5	36.1	35.0	32.5	28.2	23.1	18.4	14.8	11.9	9.7	7.6	
20	¾	26.67	5S	1.65	15.8	15.8	15.8	14.9	14.0	13.2	12.9	12.6	12.2	12.0	11.8	11.6	11.4	11.1	10.3	8.9	7.3	5.8	4.7	3.8	3.1	2.4		
		26.67	10S	2.11	20.0	20.0	20.5	19.3	18.1	17.1	16.8	16.5	16.4	15.9	15.6	15.3	15.0	14.9	14.4	13.4	11.6	9.5	7.6	6.1	4.9	4.0	3.1	
		26.67	40S	2.87	28.7	28.7	28.7	27.0	25.4	23.9	23.5	23.1	22.9	22.2	21.8	21.4	21.0	20.8	20.2	18.7	16.2	13.3	10.6	8.5	6.9	5.6	4.4	
		26.67	80S	3.91	40.6	40.6	40.6	38.3	35.9	33.8	33.3	32.7	32.4	31.5	30.9	30.3	29.7	29.4	28.5	26.5	23.0	18.8	15.0	12.1	9.7	7.9	6.2	
25	1	33.40	5S	1.65	12.5	12.5	12.5	11.7	11.0	10.4	10.2	10.0	9.9	9.7	9.5	9.3	9.1	9.0	8.8	8.1	7.0	5.8	4.6	3.7	3.0	2.4	1.9	
		33.40	10S	2.77	21.6	21.6	21.6	20.3	19.1	18.0	17.7	17.4	17.2	16.7	16.4	16.1	15.8	15.6	15.2	14.1	12.2	10.0	8.0	6.4	5.2	4.2	3.3	
		33.40	40S	3.38	26.8	26.8	26.8	25.3	23.7	22.3	22.0	21.6	21.4	20.8	20.4	20.0	19.6	19.4	18.8	17.5	15.2	12.4	9.9	8.0	6.4	5.2	4.1	
		33.40	80S	4.55	37.4	37.4	37.4	35.2	33.0	31.1	30.6	30.0	29.8	29.0	28.4	27.9	27.3	27.1	26.3	24.4	21.1	17.3	13.8	11.1	8.9	7.3	5.7	
32	1¼	42.16	5S	1.65	9.8	9.8	9.8	9.2	8.7	8.2	8.0	7.9	7.8	7.6	7.4	7.3	7.2	7.1	6.9	6.4	5.5	4.5	3.6	2.9	2.3	1.9	1.5	
		42.16	10S	2.77	16.8	16.8	16.8	15.9	14.9	14.0	13.8	13.5	13.4	13.1	12.8	12.6	12.3	12.2	11.8	11.0	9.5	7.8	6.2	5.0	4.0	3.3	2.6	
		42.16	40S	3.56	22.0	22.0	22.0	20.7	19.5	18.3	18.0	17.7	17.6	17.1	16.8	16.4	16.1	16.0	15.5	14.4	12.4	10.2	8.1	6.5	5.3	4.3	3.4	
		42.16	80S	4.85	30.9	30.9	30.9	29.1	27.3	25.7	25.3	24.8	24.6	24.0	23.5	23.1	22.6	22.4	21.7	20.1	17.5	14.3	11.4	9.2	7.4	6.0	4.7	
40	1½	48.26	5S	1.65	8.5	8.5	8.5	8.0	7.5	7.1	7.0	6.8	6.8	6.6	6.5	6.4	6.2	6.2	6.0	5.6	4.8	3.9	3.1	2.5	2.0	1.7	1.3	
		48.26	10S	2.77	14.6	14.6	14.6	13.7	12.9	12.2	12.0	11.7	11.6	11.3	11.1	10.9	10.7	10.6	10.3	9.5	8.2	6.8	5.4	4.3	3.5	2.9	2.2	
		48.26	40S	3.68	19.7	19.7	19.7	18.6	17.4	16.4	16.2	15.9	15.7	15.3	15.0	14.7	14.4	14.3	13.9	12.9	11.2	9.2	7.3	5.9	4.7	3.9	3.0	
		48.26	80S	5.08	28.0	28.0	28.0	26.4	24.8	23.3	22.9	22.5	22.3	21.7	21.3	20.9	20.5	20.3	19.7	18.3	15.8	13.0	10.3	8.3	6.7	5.5	4.3	
50	2	60.33	5S	1.65	6.8	6.8	6.8	6.4	6.0	5.6	5.5	5.4	5.4	5.2	5.1	5.0	4.9	4.8	4.4	3.8	3.1	2.5	2.0	1.6	1.3	1.0		
		60.33	10S	2.77	11.6	11.6	11.6	10.9	10.2	9.6	9.5	9.3	9.2	9.0	8.8	8.6	8.5	8.4	8.1	7.5	6.5	5.4	4.3	3.4	2.8	2.3	1.8	
		60.33	40S	3.91	16.6	16.6	16.6	15.6	14.7	13.8	13.6	13.3	13.2	12.9	12.6	12.4	12.1	12.0	11.7	10.8	9.4	7.7	6.1	4.9	4.0	3.2	2.5	
		60.33	80S	5.54	24.1	24.1	24.1	22.7	21.3	20.1	19.7	19.4	19.2	18.7	18.3	18.0	17.6	17.5	16.9	15.7	13.6	11.2	8.9	7.2	5.8	4.7	3.7	
65	2½	73.03	5S	2.11	7.2	7.2	7.2	6.7	6.3	6.0	5.9	5.8	5.7	5.6	5.4	5.3	5.2	5.2	5.0	4.7	4.0	3.3	2.6	2.1	1.7	1.4	1.1	
		73.03	10S	3.05	10.5	10.5	10.5	9.9	9.3	8.7	8.6	8.4	8.3	8.1	8.0	7.8	7.7	7.6	7.4	6.8	5.9	4.9	3.9	3.1	2.5	2.0	1.6	
		73.03	40S	5.16	18.2	18.2	18.2	17.1	16.1	15.2	14.9	14.6	14.5	14.1	13.8	13.6	13.3	13.2	12.8	11.9	10.3	8.4	6.7	5.4	4.3	3.6	2.8	
		73.03	80S	7.01	25.3	25.3	25.3	23.8	22.4	21.1	20.7	20.4	20.2	19.6	19.3	18.9	18.5	18.3	17.8	16.5	14.3	11.7	9.4	7.5	6.1	5.0	3.9	
80	3	88.90	5S	2.11	5.9	5.9	5.9	5.5	5.2	4.9	4.8	4.7	4.7	4.5	4.5	4.4	4.3	4.2	4.1	3.8	3.3	2.7	2.2	1.7	1.4	1.1	0.9	
		88.90	10S	3.05	8.5	8.5	8.5	8.0	7.6	7.1	7.0	6.9	6.8	6.6	6.5	6.4	6.3	6.2	6.0	5.6	4.8	4.0	3.2	2.5	2.0	1.7	1.3	
		88.90	40S	5.49	15.8	15.8	15.8	14.9	13.9	13.1	12.9	12.7	12.6	12.2	12.0	11.8	11.5	11.4	11.1	10.3	8.9	7.3	5.8	4.7	3.8	3.1	2.4	
		88.90	80S	7.62	22.4	22.4	22.4	21.1	19.8	18.6	18.3	18.0	17.8	17.4	17.0	16.7	16.4	16.2	15.7	14.6	12.6	10.4	8.3	6.6	5.4	4.4	3.4	
90	3½	101.60	5S	2.11	5.1	5.1	5.1	4.8	4.5	4.3	4.2	4.1	4.1	4.0	3.9	3.8	3.7	3.7	3.6	3.3	2.9	2.4	1.9	1.5	1.2	1.0	0.8	
		101.60	10S	3.05	7.4	7.4	7.4	7.0	6.6	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.4	5.4	5.2	4.9	4.2	3.5	2.8	2.2	1.8	1.5	1.1	
		101.60	40S	5.74	14.4	14.4	14.4	13.5	12.7	12.0	11.8	11.5	11.4	11.1	10.9	10.7	10.5	10.4	10.1	9.4	8.1	6.7	5.3	4.3	3.4	2.8	2.2	
		101.60	80S	8.08	20.6	20.6	20.6	19.4	18.2	17.2	16.9	16.6	16.5	16.0	15.7	15.4	15.1	15.0	14.5	13.5	11.7	9.6	7.6	6.1	4.9	4.0	3.1	
100	4	114.30	5S	2.11	4.5	4.5	4.5	4.3	4.0	3.8	3.7	3.6	3.6	3.5	3.4	3.4	3.3	3.3	3.2	3.0	2.6	2.1	1.7	1.3	1.1	0.9	0.7	
		114.30	10S	3.05	6.6	6.6	6.6	6.2	5.8	5.5	5.4	5.3	5.3	5.1	5.0	4.9	4.8	4.8	4.6	4.3	3.7	3.1	2.4	2.0	1.6	1.3	1.0	
		114.30	40S	6.02	13.3	13.3	13.3	12.6	11.8	11.1	10.9	10.7	10.6	10.3	10.1	10.0	9.8	9.7	9.4	8.7	7.5	6.2	4.9	4.0	3.2	2.6	2.0	
		114.30	80S	8.56	19.4	19.4	19.4	18.2	17.1	16.1	15.8	15.6	15.4	15.0	14.7	14.4	14.2	14.0	13.6	12.6	10.9	9.0	7.2	5.8	4.6	3.6	2.9	
125	5	141.30	5S	2.77	4.8	4.8	4.8	4.5	4.3	4.0	3.9	3.9	3.8	3.7	3.7	3.6	3.5	3.5	3.4	3.1	2.7	2.2	1.8	1.4	1.2	0.9	0.7	
		141.30	10S	3.40	5.9	5.9	5.9	5.6	5.2	4.9	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.3	4.2	3.9	3.4	2.8	2.2	1.8	1.4	1.2	0.9	
		141.30	40S	6.55	11.7	11.7	11.7	11.0	10.3	9.7	9.6	9.4	9.3	9.0	8.9	8.7	8.5	8.5	8.2	7.6	6.6	5.4	4.3	3.5	2.8	2.3	1.8	
		141.30	80S	9.53	17.3	17.3	17.3	16.3	15.3	14.4	14.2	13.9	13.8	13.4	13.2	12.9	12.7	12.5	12.2	11.3	9.8	8.0	6.4	5.1	4.1	3.4	2.6	
150	6	168.28	5S	2.77	4.0	4.0	4.0	3.8	3.6	3.4	3.3	3.2	3.2	3.1	3.1	3.0	2.9	2.8	2.6	2.3	1.9	1.5	1.2	1.0	0.8	0.6		
		168.28	10S	3.40	5.0	5.0	5.0	4.7	4.4	4.1	4.1	4.0	4.0	3.9	3.8	3.7	3.6	3.6	3.5	3.2	2.8	2.3	1.8	1.5	1.2	1.0	0.8	
		168.28	40S	7.11	10.6	10.6	10.6	10.0	9.4	8.8	8.7	8.5	8.4	8.2	8.1	7.9	7.8	7.7	7.4									