

Pressure Rating Tables for Stainless Steel Pipe

Notes to the Tables of Allowable Working Pressures

1. This data is intended to provide a general guide. It must not to be relied upon in the absence of competent professional advice.
2. These allowable pressures were calculated by the formula given in AS 4041-2006 "Pressure Piping", clause 3.14.3. Other design codes may give different allowable pressures. The original specifications must be consulted for full details.
3. These calculations assume Piping Class 1 so only apply if this level of piping construction quality has been achieved.
4. Calculations are for seamless pipe to specification ASTM A312/A312M. An additional weld joint efficiency factor of 85% must be allowed for standard welded pipe, and allowance made for corrosion or wear loss if appropriate.
5. Grade 304 and 316 design pressures are only valid at temperatures above 538°C if carbon content is 0.04% or higher.
6. Allowable working pressures are given in megapascals (MPa). Conversions to other units are:

to convert	to	multiply by
megapascals (MPa)	pounds/sq. inch (psi)	145.0
megapascals (MPa)	ksi	0.145
megapascals (MPa)	kilograms/mm ² (kgf/mm ²)	0.10197
megapascals (MPa)	bar	10.00
megapascals (MPa)	kilopascals (kPa)	1000

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Pressure Rating Tables for Stainless Steel Pipe

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			Sch No	WT (mm)	Allowable Working Pressure (MPa)																							
DN	NPS	mm																										
10	3/8	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	1/2	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	3/4	26.67	5S	1.65	15.8	15.8	15.8	14.9	14.0	13.2	12.9	12.7	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	20.5	20.5	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	1 1/4	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	1 1/2	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	

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Page 2 of 17

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Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP304** Pipes – ASTM A 312, Seamless continued

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			Sch No	WT (mm)	Allowable Working Pressure (MPa)																								
DN	NPS	mm																											
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	5.1	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	3.8	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		

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Page 3 of 17

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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			Sch No	WT (mm)	Allowable Working Pressure (MPa)																								
DN	NPS	mm																											
125	5	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	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	6.9	6.0	4.9	3.9	3.1	2.5	2.1	1.6		
		168.28	80S	10.97	16.7	16.7	16.7	15.7	14.8	13.9	13.7	13.4	13.3	12.9	12.7	12.5	12.2	12.1	11.7	10.9	9.4	7.7	6.2	5.0	4.0	3.3	2.5		
200	8	219.08	5S	2.77	3.1	3.1	3.1	2.9	2.7	2.6	2.5	2.5	2.5	2.4	2.3	2.3	2.3	2.2	2.2	2.0	1.7	1.4	1.1	0.9	0.7	0.6	0.5		
		219.08	10S	3.76	4.2	4.2	4.2	4.0	3.7	3.5	3.4	3.4	3.4	3.3	3.2	3.1	3.1	3.0	3.0	2.7	2.4	2.0	1.6	1.3	1.0	0.8	0.6		
		219.08	40S	8.18	9.3	9.3	9.3	8.8	8.2	7.8	7.6	7.5	7.4	7.2	7.1	7.0	6.8	6.8	6.6	6.1	5.3	4.3	3.4	2.8	2.2	1.8	1.4		
		219.08	80S	12.70	14.7	14.7	14.7	13.9	13.0	12.3	12.1	11.9	11.8	11.4	11.2	11.0	10.8	10.7	10.4	9.6	8.3	6.8	5.5	4.4	3.5	2.9	2.2		
250	10	273.05	5S	3.40	3.0	3.0	3.0	2.9	2.7	2.5	2.5	2.4	2.4	2.4	2.3	2.3	2.2	2.2	2.1	2.0	1.7	1.4	1.1	0.9	0.7	0.6	0.5		
		273.05	10S	4.19	3.8	3.8	3.8	3.5	3.3	3.1	3.1	3.0	3.0	2.9	2.9	2.8	2.7	2.7	2.6	2.4	2.1	1.7	1.4	1.1	0.9	0.7	0.6		
		273.05	40S	9.27	8.4	8.4	8.4	8.0	7.5	7.0	6.9	6.8	6.7	6.6	6.4	6.3	6.2	6.1	5.9	5.5	4.8	3.9	3.1	2.5	2.0	1.7	1.3		
		273.05	80S	12.70	11.7	11.7	11.7	11.0	10.4	9.8	9.6	9.4	9.3	9.1	8.9	8.7	8.6	8.5	8.2	7.6	6.6	5.4	4.3	3.5	2.8	2.3	1.8		
300	12	323.85	5S	3.96	3.0	3.0	3.0	2.8	2.6	2.5	2.4	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.1	1.9	1.7	1.4	1.1	0.9	0.7	0.6	0.5		
		323.85	10S	4.57	3.5	3.5	3.5	3.3	3.1	2.9	2.8	2.8	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.3	2.0	1.6	1.3	1.0	0.8	0.7	0.5		
		323.85	40S	9.53	7.3	7.3	7.3	6.9	6.4	6.1	6.0	5.9	5.8	5.7	5.6	5.4	5.3	5.3	5.1	4.8	4.1	3.4	2.7	2.2	1.7	1.4	1.1		
		323.85	80S	12.70	9.8	9.8	9.8	9.2	8.7	8.2	8.0	7.9	7.8	7.6	7.5	7.3	7.2	7.1	6.9	6.4	5.5	4.5	3.6	2.9	2.3	1.9	1.5		
350	14	355.60	5S	3.96	2.7	2.7	2.7	2.6	2.4	2.3	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.8	1.5	1.3	1.0	0.8	0.6	0.5	0.4		
		355.60	10S	4.78	3.3	3.3	3.3	3.1	2.9	2.7	2.7	2.6	2.6	2.5	2.5	2.5	2.4	2.4	2.3	2.1	1.9	1.5	1.2	1.0	0.8	0.6	0.5		
		355.60	40S	9.53	6.6	6.6	6.6	6.2	5.9	5.5	5.4	5.3	5.3	5.1	5.0	4.9	4.9	4.8	4.7	4.3	3.7	3.1	2.4	2.0	1.6	1.3	1.0		
		355.60	80S	12.70	8.9	8.9	8.9	8.4	7.9	7.4	7.3	7.2	7.1	6.9	6.8	6.6	6.5	6.5	6.3	5.8	5.0	4.1	3.3	2.6	2.1	1.7	1.4		

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Page 4 of 17

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Print date: 23 July 2021

Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP304** Pipes – ASTM A 312, Seamless continued

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			Sch No	WT (mm)	Allowable Working Pressure (MPa)																							
DN	NPS	mm																										
400	16	406.40	5S	4.19	2.5	2.5	2.5	2.4	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.6	1.4	1.2	0.9	0.7	0.6	0.5	0.4	
		406.40	10S	4.78	2.9	2.9	2.9	2.7	2.5	2.4	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.0	1.9	1.6	1.3	1.1	0.9	0.7	0.6	0.4	
		406.40	40S	9.53	5.8	5.8	5.8	5.4	5.1	4.8	4.7	4.7	4.6	4.5	4.4	4.3	4.2	4.2	4.1	3.8	3.3	2.7	2.1	1.7	1.4	1.1	0.9	
		406.40	80S	12.70	7.8	7.8	7.8	7.3	6.9	6.5	6.4	6.2	6.2	6.0	5.9	5.8	5.7	5.6	5.5	5.1	4.4	3.6	2.9	2.3	1.9	1.5	1.2	
450	18	457.20	5S	4.19	2.2	2.2	2.2	2.1	2.0	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.3	1.0	0.8	0.7	0.5	0.4	0.3	
		457.20	10S	4.78	2.5	2.5	2.5	2.4	2.3	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.4	1.2	0.9	0.8	0.6	0.5	0.4	
		457.20	40S	9.53	5.1	5.1	5.1	4.8	4.5	4.3	4.2	4.1	4.1	4.0	3.9	3.8	3.8	3.7	3.6	3.3	2.9	2.4	1.9	1.5	1.2	1.0	0.8	
		457.20	80S	12.70	6.9	6.9	6.9	6.5	6.1	5.7	5.6	5.5	5.5	5.3	5.2	5.1	5.0	5.0	4.8	4.5	3.9	3.2	2.5	2.0	1.6	1.3	1.0	
500	20	508.00	5S	4.78	2.3	2.3	2.3	2.2	2.0	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.5	1.3	1.1	0.8	0.7	0.5	0.4	0.3	
		508.00	10S	5.54	2.7	2.7	2.7	2.5	2.4	2.2	2.2	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.7	1.5	1.2	1.0	0.8	0.6	0.5	0.4	
		508.00	40S	9.53	4.6	4.6	4.6	4.3	4.1	3.8	3.8	3.7	3.7	3.6	3.5	3.4	3.4	3.3	3.2	3.0	2.6	2.1	1.7	1.4	1.1	0.9	0.7	
		508.00	80S	12.70	6.2	6.2	6.2	5.8	5.5	5.1	5.1	5.0	4.9	4.8	4.7	4.6	4.5	4.5	4.3	4.0	3.5	2.9	2.3	1.8	1.5	1.2	0.9	
550	22	558.80	5S	4.78	2.1	2.1	2.1	2.0	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.2	1.0	0.8	0.6	0.5	0.4	0.3	
		558.80	10S	5.54	2.4	2.4	2.4	2.3	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.6	1.4	1.1	0.9	0.7	0.6	0.5	0.4	
600	24	609.60	5S	5.54	2.2	2.2	2.2	2.1	2.0	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.4	1.3	1.0	0.8	0.7	0.5	0.4	0.3	
		609.60	10S	6.35	2.5	2.5	2.5	2.4	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.4	1.2	0.9	0.8	0.6	0.5	0.4	
		609.60	40S	9.53	3.8	3.8	3.8	3.6	3.4	3.2	3.1	3.1	3.1	3.1	3.0	2.9	2.9	2.8	2.8	2.7	2.5	2.2	1.8	1.4	1.1	0.9	0.7	0.6
		609.60	80S	12.70	5.1	5.1	5.1	4.8	4.5	4.3	4.2	4.1	4.1	4.1	4.0	3.9	3.8	3.8	3.7	3.6	3.3	2.9	2.4	1.9	1.5	1.2	1.0	0.8

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Page 5 of 17

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Print date: 23 July 2021

Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP304L** 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	
Design Strength (MPa):				115	115	115	109	103	98	96	94	93	92	90	88	84	73	60	
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)														
DN	NPS	mm																	
10	3/8	17.15	10S	1.65	21.1	21.1	21.1	20.0	18.9	18.0	17.6	17.3	17.1	16.9	16.5	16.2	15.4	13.4	11.0
		17.15	40S	2.31	30.7	30.7	30.7	29.1	27.5	26.2	25.7	25.1	24.9	24.6	24.0	23.5	22.4	19.5	16.0
		17.15	80S	3.20	44.9	44.9	44.9	42.5	40.2	38.2	37.5	36.7	36.3	35.9	35.1	34.3	32.8	28.5	23.4
15	1/2	21.34	5S	1.65	16.7	16.7	16.7	15.8	14.9	14.2	13.9	13.6	13.5	13.4	13.1	12.8	12.2	10.6	8.7
		21.34	10S	2.11	21.8	21.8	21.8	20.6	19.5	18.6	18.2	17.8	17.6	17.4	17.0	16.7	15.9	13.8	11.4
		21.34	40S	2.77	29.5	29.5	29.5	27.9	26.4	25.1	24.6	24.1	23.8	23.6	23.1	22.6	21.5	18.7	15.4
		21.34	80S	3.73	41.5	41.5	41.5	39.4	37.2	35.4	34.7	33.9	33.6	33.2	32.5	31.8	30.3	26.4	21.7
20	3/4	26.67	5S	1.65	13.2	13.2	13.2	12.5	11.8	11.2	11.0	10.8	10.6	10.5	10.3	10.1	9.6	8.4	6.9
		26.67	10S	2.11	17.1	17.1	17.1	16.2	15.3	14.6	14.3	14.0	13.8	13.7	13.4	13.1	12.5	10.9	8.9
		26.67	40S	2.87	23.9	23.9	23.9	22.7	21.4	20.4	20.0	19.5	19.3	19.1	18.7	18.3	17.5	15.2	12.5
		26.67	80S	3.91	33.8	33.8	33.8	32.1	30.3	28.8	28.3	27.7	27.4	27.1	26.5	25.9	24.7	21.5	17.7
25	1	33.40	5S	1.65	10.4	10.4	10.4	9.8	9.3	8.9	8.7	8.5	8.4	8.3	8.1	8.0	7.6	6.6	5.4
		33.40	10S	2.77	18.0	18.0	18.0	17.1	16.1	15.3	15.0	14.7	14.6	14.4	14.1	13.8	13.1	11.4	9.4
		33.40	40S	3.38	22.3	22.3	22.3	21.2	20.0	19.0	18.7	18.3	18.1	17.9	17.5	17.1	16.3	14.2	11.7
		33.40	80S	4.55	31.1	31.1	31.1	29.5	27.9	26.5	26.0	25.4	25.2	24.9	24.4	23.8	22.7	19.8	16.2
32	1 1/4	42.16	5S	1.65	8.2	8.2	8.2	7.7	7.3	6.9	6.8	6.7	6.6	6.5	6.4	6.2	6.0	5.2	4.3
		42.16	10S	2.77	14.0	14.0	14.0	13.3	12.6	12.0	11.7	11.5	11.3	11.2	11.0	10.7	10.2	8.9	7.3
		42.16	40S	3.56	18.3	18.3	18.3	17.4	16.4	15.6	15.3	15.0	14.8	14.7	14.4	14.0	13.4	11.6	9.6
		42.16	80S	4.85	25.7	25.7	25.7	24.4	23.1	21.9	21.5	21.0	20.8	20.6	20.1	19.7	18.8	16.3	13.4
40	1 1/2	48.26	5S	1.65	7.1	7.1	7.1	6.7	6.4	6.0	5.9	5.8	5.7	5.7	5.6	5.4	5.2	4.5	3.7
		48.26	10S	2.77	12.2	12.2	12.2	11.5	10.9	10.4	10.2	9.9	9.8	9.7	9.5	9.3	8.9	7.7	6.3
		48.26	40S	3.68	16.4	16.4	16.4	15.6	14.7	14.0	13.7	13.4	13.3	13.2	12.9	12.6	12.0	10.4	8.6
		48.26	80S	5.08	23.3	23.3	23.3	22.1	20.7	19.9	19.5	19.1	18.9	18.7	18.3	17.9	17.0	14.8	12.2

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Page 6 of 17

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Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP304L** Pipes – ASTM A 312, Seamless continued

Allowable Working Pressure at Temperature																			
Temperature (°C):					50	100	150	200	250	300	325	350	375	400	425	450	475	500	525
Design Strength (MPa):					115	115	115	109	103	98	96	94	93	92	90	88	84	73	60
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)														
DN	NPS	mm																	
50	2	60.33	5S	1.65	5.6	5.6	5.6	5.3	5.1	4.8	4.7	4.6	4.6	4.5	4.4	4.3	4.1	3.6	2.9
		60.33	10S	2.77	9.6	9.6	9.6	9.1	8.6	8.2	8.0	7.9	7.8	7.7	7.5	7.4	7.0	6.1	5.0
		60.33	40S	3.91	13.8	13.8	13.8	13.1	12.4	11.8	11.5	11.3	11.2	11.1	10.8	10.6	10.1	8.8	7.2
		60.33	80S	5.54	20.1	20.1	20.1	19.0	18.0	17.1	16.8	16.4	16.3	16.1	15.7	15.4	14.7	12.8	10.5
65	2 ½	73.03	5S	2.11	6.0	6.0	6.0	5.7	5.3	5.1	5.0	4.9	4.8	4.8	4.7	4.6	4.4	3.8	3.1
		73.03	10S	3.05	8.7	8.7	8.7	8.3	7.8	7.4	7.3	7.1	7.1	7.0	6.8	6.7	6.4	5.5	4.6
		73.03	40S	5.16	15.2	15.2	15.2	14.4	13.6	12.9	12.7	12.4	12.3	12.1	11.9	11.6	11.1	9.6	7.9
		73.03	80S	7.01	21.1	21.1	21.1	20.0	18.9	18.0	17.6	17.2	17.1	16.9	16.5	16.1	15.4	13.4	11.0
80	3	88.90	5S	2.11	4.9	4.9	4.9	4.6	4.4	4.2	4.1	4.0	3.9	3.9	3.8	3.7	3.6	3.1	2.5
		88.90	10S	3.05	7.1	7.1	7.1	6.7	6.4	6.1	5.9	5.8	5.8	5.7	5.6	5.4	5.2	4.5	3.7
		88.90	40S	5.49	13.1	13.1	13.1	12.5	11.8	11.2	11.0	10.7	10.6	10.5	10.3	10.1	9.6	8.3	6.9
		88.90	80S	7.62	18.6	18.6	18.6	17.7	16.7	15.9	15.6	15.2	15.1	14.9	14.6	14.3	13.6	11.8	9.7
90	3 ½	101.60	5S	2.11	4.3	4.3	4.3	4.0	3.8	3.6	3.6	3.5	3.4	3.4	3.3	3.3	3.1	2.7	2.2
		101.60	10S	3.05	6.2	6.2	6.2	5.9	5.6	5.3	5.2	5.1	5.0	5.0	4.9	4.7	4.5	3.9	3.2
		101.60	40S	5.74	12.0	12.0	12.0	11.3	10.7	10.2	10.0	9.8	9.7	9.6	9.4	9.2	8.7	7.6	6.2
		101.60	80S	8.08	17.2	17.2	17.2	16.3	15.4	14.7	14.4	14.1	13.9	13.8	13.5	13.2	12.6	10.9	9.0
100	4	114.30	5S	2.11	3.8	3.8	3.8	3.6	3.4	3.2	3.2	3.1	3.1	3.0	3.0	2.9	2.8	2.4	2.0
		114.30	10S	3.05	5.5	5.5	5.5	5.2	4.9	4.7	4.6	4.5	4.4	4.4	4.3	4.2	4.0	3.5	2.9
		114.30	40S	6.02	11.1	11.1	11.1	10.5	10.0	9.5	9.3	9.1	9.0	8.9	8.7	8.5	8.1	7.1	5.8
		114.30	80S	8.56	16.1	16.1	16.1	15.3	14.4	13.7	13.5	13.2	13.0	12.9	12.6	12.3	11.8	10.2	8.4
125	5	141.30	5S	2.77	4.0	4.0	4.0	3.8	3.6	3.4	3.4	3.3	3.2	3.2	3.1	3.1	2.9	2.5	2.1
		141.30	10S	3.40	4.9	4.9	4.9	4.7	4.4	4.2	4.1	4.0	4.0	4.0	3.9	3.8	3.6	3.1	2.6
		141.30	40S	6.55	9.7	9.7	9.7	9.2	8.7	8.3	8.1	7.9	7.9	7.8	7.6	7.4	7.1	6.2	5.1

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Page 7 of 17

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Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP304L** Pipes – ASTM A 312, Seamless continued

Allowable Working Pressure at Temperature																			
Temperature (°C):				50	100	150	200	250	300	325	350	375	400	425	450	475	500	525	
Design Strength (MPa):				115	115	115	109	103	98	96	94	93	92	90	88	84	73	60	
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)														
DN	NPS	mm																	
125	5	141.30	80S	9.53	14.4	14.4	14.4	13.7	12.9	12.3	12.0	11.8	11.7	11.5	11.3	11.0	10.5	9.2	7.5
150	6	168.28	5S	2.77	3.4	3.4	3.4	3.2	3.0	2.9	2.8	2.7	2.7	2.7	2.6	2.6	2.5	2.1	1.8
		168.28	10S	3.40	4.1	4.1	4.1	3.9	3.7	3.5	3.5	3.4	3.3	3.3	3.2	3.2	3.0	2.6	2.2
		168.28	40S	7.11	8.8	8.8	8.8	8.4	7.9	7.5	7.4	7.2	7.1	7.1	6.9	6.8	6.4	5.6	4.6
		168.28	80S	10.97	13.9	13.9	13.9	13.2	12.5	11.9	11.6	11.4	11.3	11.1	10.9	10.6	10.2	8.8	7.3
200	8	219.08	5S	2.77	2.6	2.6	2.6	2.4	2.3	2.2	2.1	2.1	2.1	2.1	2.0	2.0	1.9	1.6	1.3
		219.08	10S	3.76	3.5	3.5	3.5	3.3	3.1	3.0	2.9	2.9	2.8	2.8	2.7	2.7	2.6	2.2	1.8
		219.08	40S	8.18	7.8	7.8	7.8	7.4	7.0	6.6	6.5	6.3	6.3	6.2	6.1	5.9	5.7	4.9	4.1
		219.08	80S	12.70	12.3	12.3	12.3	11.6	11.0	10.5	10.3	10.0	9.9	9.8	9.6	9.4	9.0	7.8	6.4
250	10	273.05	5S	3.40	2.5	2.5	2.5	2.4	2.3	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.6	1.3
		273.05	10S	4.19	3.1	3.1	3.1	3.0	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.0	1.6
		273.05	40S	9.27	7.0	7.0	7.0	6.7	6.3	6.0	5.9	5.8	5.7	5.6	5.5	5.4	5.1	4.5	3.7
		273.05	80S	12.70	9.8	9.8	9.8	9.2	8.7	8.3	8.1	8.0	7.9	7.8	7.6	7.5	7.1	6.2	5.1
300	12	323.85	5S	3.96	2.5	2.5	2.5	2.4	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.8	1.6	1.3
		323.85	10S	4.57	2.9	2.9	2.9	2.7	2.6	2.5	2.4	2.4	2.3	2.3	2.3	2.2	2.1	1.8	1.5
		323.85	40S	9.53	6.1	6.1	6.1	5.8	5.4	5.2	5.1	5.0	4.9	4.9	4.8	4.7	4.4	3.9	3.2
		323.85	80S	12.70	8.2	8.2	8.2	7.7	7.3	7.0	6.8	6.7	6.6	6.5	6.4	6.3	6.0	5.2	4.3
350	14	355.60	5S	3.96	2.3	2.3	2.3	2.1	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.4	1.2
		355.60	10S	4.78	2.7	2.7	2.7	2.6	2.5	2.3	2.3	2.2	2.2	2.2	2.1	2.1	2.0	1.7	
		355.60	40S	9.53	5.5	5.5	5.5	5.2	4.9	4.7	4.6	4.5	4.5	4.4	4.3	4.2	4.0	3.5	
		355.60	80S	12.70	7.4	7.4	7.4	7.0	6.6	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.4	4.7	

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Page 8 of 17

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Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP304L** Pipes – ASTM A 312, Seamless continued

Allowable Working Pressure at Temperature																			
Temperature (°C):				50	100	150	200	250	300	325	350	375	400	425	450	475	500	525	
Design Strength (MPa):				115	115	115	109	103	98	96	94	93	92	90	88	84	73	60	
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)														
DN	NPS	mm																	
400	16	406.40	5S	4.19	2.1	2.1	2.1	2.0	1.9	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.3	1.1
		406.40	10S	4.78	2.4	2.4	2.4	2.3	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.7	1.5	1.2
		406.40	40S	9.53	4.8	4.8	4.8	4.6	4.3	4.1	4.0	3.9	3.9	3.9	3.8	3.7	3.5	3.1	2.5
		406.40	80S	12.70	6.5	6.5	6.5	6.1	5.8	5.5	5.4	5.3	5.2	5.2	5.1	4.9	4.7	4.1	3.4
450	18	457.20	5S	4.19	1.9	1.9	1.9	1.8	1.7	1.6	1.6	1.5	1.5	1.5	1.5	1.4	1.4	1.2	1.0
		457.20	10S	4.78	2.1	2.1	2.1	2.0	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.3	1.1
		457.20	40S	9.53	4.3	4.3	4.3	4.0	3.8	3.6	3.6	3.5	3.5	3.4	3.3	3.3	3.1	2.7	2.2
		457.20	80S	12.70	5.7	5.7	5.7	5.4	5.1	4.9	4.8	4.7	4.6	4.6	4.5	4.4	4.2	3.6	3.0
500	20	508.00	5S	4.78	1.9	1.9	1.9	1.8	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.4	1.2	1.0
		508.00	10S	5.54	2.2	2.2	2.2	2.1	2.0	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.6	1.4	1.2
		508.00	40S	9.53	3.8	3.8	3.8	3.6	3.4	3.3	3.2	3.1	3.1	3.1	3.0	2.9	2.8	2.4	2.0
		508.00	80S	12.70	5.1	5.1	5.1	4.9	4.6	4.4	4.3	4.2	4.2	4.1	4.0	3.9	3.8	3.3	2.7
550	22	558.80	5S	4.78	1.7	1.7	1.7	1.6	1.6	1.5	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.1	0.9
		558.80	10S	5.54	2.0	2.0	2.0	1.9	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.5	1.5	1.3	1.1
600	24	609.60	5S	5.54	1.8	1.8	1.8	1.7	1.7	1.6	1.5	1.5	1.5	1.5	1.4	1.4	1.3	1.2	1.0
		609.60	10S	6.35	2.1	2.1	2.1	2.0	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.5	1.3	1.1
		609.60	40S	9.53	3.2	3.2	3.2	3.0	2.9	2.7	2.7	2.6	2.6	2.6	2.5	2.4	2.3	2.0	1.7
		609.60	80S	12.70	4.3	4.3	4.3	4.0	3.8	3.6	3.6	3.5	3.5	3.4	3.3	3.3	3.1	2.7	2.2

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Page 9 of 17

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Print date: 23 July 2021

Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP316** 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	
Design Strength (MPa):				138	138	138	133	125	119	117	114	112	111	110	108	107	106	106	103	95	81	65	50	39	30	
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)																					
DN	NPS	mm																								
10	3/8	17.15	10S	1.65	25.4	25.4	25.4	24.5	23.0	21.9	21.5	21.0	20.6	20.4	20.2	19.9	19.7	19.5	19.5	18.9	17.5	14.9	11.9	9.2	7.2	5.5
		17.15	40S	2.31	36.9	36.9	36.9	35.3	33.4	31.8	31.3	30.5	29.9	29.7	29.4	28.9	28.6	28.3	28.3	27.5	25.4	21.6	17.4	13.4	10.4	8.0
		17.15	80S	3.20	53.9	53.9	53.9	51.9	48.8	46.4	45.7	44.5	43.7	43.3	42.9	42.1	41.8	41.4	41.4	40.2	37.1	31.6	25.4	19.5	15.2	11.7
15	1/2	21.34	5S	1.65	20.0	20.0	20.0	19.3	18.1	17.3	17.0	16.5	16.3	16.1	16.0	15.7	15.5	15.4	15.4	14.9	13.8	11.8	9.4	7.3	5.7	4.4
		21.34	10S	2.11	26.1	26.1	26.1	25.2	23.7	22.5	22.2	21.6	21.2	21.0	20.8	20.5	20.3	20.1	20.1	19.5	18.0	15.3	12.3	9.5	7.4	5.7
		21.34	40S	2.77	35.4	35.4	35.4	34.1	32.0	30.5	30.0	29.2	28.7	28.4	28.2	27.7	27.4	27.2	27.2	26.4	24.3	20.8	16.7	12.8	10.0	7.7
		21.34	80S	3.73	49.8	49.8	49.8	48.0	45.1	43.0	42.2	41.2	40.4	40.1	39.7	39.0	38.6	38.3	38.3	37.2	34.3	29.2	23.5	18.1	14.1	10.8
20	3/4	26.67	5S	1.65	15.8	15.8	15.8	15.2	14.3	13.6	13.4	13.0	12.8	12.7	12.6	12.4	12.2	12.1	12.1	11.8	10.9	9.3	7.4	5.7	4.5	3.4
		26.67	10S	2.11	20.5	20.5	20.5	19.8	18.6	17.7	17.4	17.0	16.7	16.5	16.4	16.1	15.9	15.8	15.8	15.3	14.1	12.0	9.7	7.4	5.8	4.5
		26.67	40S	2.87	28.7	28.7	28.7	27.7	26.0	24.7	24.3	23.7	23.3	23.1	22.9	22.5	22.2	22.0	22.0	21.4	19.8	16.8	13.5	10.4	8.1	6.2
		26.67	80S	3.91	40.6	40.6	40.6	39.1	36.8	35.0	34.4	33.6	33.0	32.7	32.4	31.8	31.5	31.2	31.2	30.3	28.0	23.8	19.1	14.7	11.5	8.8
25	1	33.40	5S	1.65	12.5	12.5	12.5	12.0	11.3	10.8	10.6	10.3	10.1	10.0	9.9	9.8	9.7	9.6	9.6	9.3	8.6	7.3	5.9	4.5	3.5	2.7
		33.40	10S	2.77	21.6	21.6	21.6	20.8	19.6	18.6	18.3	17.8	17.5	17.4	17.2	16.9	16.7	16.6	16.6	16.1	14.9	12.7	10.2	7.8	6.1	4.7
		33.40	40S	3.38	26.8	26.8	26.8	25.8	24.3	23.1	22.7	22.2	21.8	21.6	21.4	21.0	20.8	20.6	20.6	20.0	18.5	15.7	12.6	9.7	7.6	5.8
		33.40	80S	4.55	37.4	37.4	37.4	36.0	33.8	32.2	31.7	30.9	30.3	30.0	29.8	29.2	29.0	28.7	28.7	27.9	25.7	21.9	17.6	13.5	10.6	8.1
32	1 1/4	42.16	5S	1.65	9.8	9.8	9.8	9.4	8.9	8.4	8.3	8.1	7.9	7.9	7.8	7.7	7.6	7.5	7.5	7.3	6.7	5.7	4.6	3.5	2.8	2.1
		42.16	10S	2.77	16.8	16.8	16.8	16.2	15.2	14.5	14.3	13.9	13.7	13.5	13.4	13.2	13.1	12.9	12.9	12.6	11.6	9.9	7.9	6.1	4.8	3.7
		42.16	40S	3.56	22.0	22.0	22.0	21.2	19.9	19.0	18.7	18.2	17.9	17.7	17.6	17.2	17.1	16.9	16.9	16.4	15.2	12.9	10.4	8.0	6.2	4.8
		42.16	80S	4.85	30.9	30.9	30.9	29.8	28.0	26.6	26.2	25.5	25.1	24.8	24.6	24.2	24.0	23.7	23.7	23.1	21.3	18.1	14.6	11.2	8.7	6.7
40	1 1/2	48.26	5S	1.65	8.5	8.5	8.5	8.2	7.7	7.3	7.2	7.0	6.9	6.8	6.8	6.7	6.6	6.5	6.5	6.4	5.9	5.0	4.0	3.1	2.4	1.9
		48.26	10S	2.77	14.6	14.6	14.6	14.1	13.2	12.6	12.4	12.1	11.8	11.7	11.6	11.4	11.3	11.2	11.2	10.9	10.0	8.6	6.9	5.3	4.1	3.2
		48.26	40S	3.68	19.7	19.7	19.7	19.0	17.9	17.0	16.7	16.3	16.0	15.9	15.7	15.4	15.3	15.2	15.2	14.7	13.6	11.6	9.3	7.1	5.6	4.3
		48.26	80S	5.08	28.0	28.0	28.0	27.0	25.4	24.1	23.7	23.1	22.7	22.5	22.3	21.9	21.7	21.5	21.5	20.9	19.3	16.4	13.2	10.1	7.9	6.1

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Page 10 of 17

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Print date: 23 July 2021

Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP316** Pipes – ASTM A 312, Seamless continued

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	
Design Strength (MPa):				138	138	138	133	125	119	117	114	112	111	110	108	107	106	106	103	95	81	65	50	39	30	
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)																					
DN	NPS	mm																								
50	2	60.33	5S	1.65	6.8	6.8	6.8	6.5	6.1	5.8	5.7	5.6	5.5	5.4	5.4	5.3	5.2	5.2	5.2	5.1	4.7	4.0	3.2	2.5	1.9	1.5
		60.33	10S	2.77	11.6	11.6	11.6	11.1	10.5	10.0	9.8	9.5	9.4	9.3	9.2	9.0	9.0	8.9	8.9	8.6	8.0	6.8	5.4	4.2	3.3	2.5
		60.33	40S	3.91	16.6	16.6	16.6	16.0	15.0	14.3	14.1	13.7	13.5	13.3	13.2	13.0	12.9	12.7	12.7	12.4	11.4	9.7	7.8	6.0	4.7	3.6
		60.33	80S	5.54	24.1	24.1	24.1	23.2	21.8	20.8	20.4	19.9	19.6	19.4	19.2	18.9	18.7	18.5	18.5	18.0	16.6	14.2	11.4	8.7	6.8	5.2
65	2½	73.03	5S	2.11	7.2	7.2	7.2	6.9	6.5	6.2	6.1	5.9	5.8	5.8	5.7	5.6	5.6	5.5	5.5	5.3	4.9	4.2	3.4	2.6	2.0	1.6
		73.03	10S	3.05	10.5	10.5	10.5	10.1	9.5	9.0	8.9	8.6	8.5	8.4	8.3	8.2	8.1	8.0	8.0	7.8	7.2	6.1	4.9	3.8	3.0	2.3
		73.03	40S	5.16	18.2	18.2	18.2	17.5	16.5	15.7	15.4	15.0	14.8	14.6	14.5	14.2	14.1	14.0	14.0	13.6	12.5	10.7	8.6	6.6	5.1	4.0
		73.03	80S	7.01	25.3	25.3	25.3	24.4	22.9	21.8	21.5	20.9	20.5	20.4	20.2	19.8	19.6	19.4	19.4	18.9	17.4	14.9	11.9	9.2	7.2	5.5
80	3	88.90	5S	2.11	5.9	5.9	5.9	5.6	5.3	5.0	5.0	4.8	4.8	4.7	4.7	4.6	4.5	4.5	4.5	4.4	4.0	3.4	2.8	2.1	1.7	1.3
		88.90	10S	3.05	8.5	8.5	8.5	8.2	7.7	7.4	7.2	7.1	6.9	6.9	6.8	6.7	6.6	6.6	6.6	6.4	5.9	5.0	4.0	3.1	2.4	1.9
		88.90	40S	5.49	15.8	15.8	15.8	15.2	14.3	13.6	13.4	13.0	12.8	12.7	12.6	12.3	12.2	12.1	12.1	11.8	10.9	9.3	7.4	5.7	4.5	3.4
		88.90	80S	7.62	22.4	22.4	22.4	21.6	20.3	19.3	19.0	18.5	18.2	18.0	17.8	17.5	17.4	17.2	17.2	16.7	15.4	13.1	10.5	8.1	6.3	4.9
90	3½	101.60	5S	2.11	5.1	5.1	5.1	4.9	4.6	4.4	4.3	4.2	4.1	4.1	4.1	4.0	4.0	3.9	3.9	3.8	3.5	3.0	2.4	1.9	1.4	1.1
		101.60	10S	3.05	7.4	7.4	7.4	7.2	6.7	6.4	6.3	6.2	6.0	6.0	5.9	5.8	5.8	5.7	5.7	5.6	5.1	4.4	3.5	2.7	2.1	1.6
		101.60	40S	5.74	14.4	14.4	14.4	13.8	13.0	12.4	12.2	11.9	11.6	11.5	11.4	11.2	11.1	11.0	11.0	10.7	9.9	8.4	6.8	5.2	4.1	3.1
		101.60	80S	8.08	20.6	20.6	20.6	19.9	18.7	17.8	17.5	17.1	16.8	16.6	16.5	16.2	16.0	15.9	15.9	15.4	14.2	12.1	9.7	7.5	5.8	4.5
100	4	114.30	5S	2.11	4.5	4.5	4.5	4.4	4.1	3.9	3.8	3.7	3.7	3.6	3.6	3.5	3.5	3.5	3.5	3.4	3.1	2.7	2.1	1.6	1.3	1.0
		114.30	10S	3.05	6.6	6.6	6.6	6.4	6.0	5.7	5.6	5.5	5.4	5.3	5.3	5.2	5.1	5.1	5.1	4.9	4.5	3.9	3.1	2.4	1.9	1.4
		114.30	40S	6.02	13.3	13.3	13.3	12.9	12.1	11.5	11.3	11.0	10.8	10.7	10.6	10.4	10.3	10.2	10.2	10.0	9.2	7.8	6.3	4.8	3.8	2.9
		114.30	80S	8.56	19.4	19.4	19.4	18.7	17.5	16.7	16.4	16.0	15.7	15.6	15.4	15.1	15.0	14.9	14.9	14.4	13.3	11.4	9.1	7.0	5.5	4.2
125	5	141.30	5S	2.77	4.8	4.8	4.8	4.6	4.4	4.2	4.1	4.0	3.9	3.9	3.8	3.8	3.7	3.7	3.7	3.6	3.3	2.8	2.3	1.7	1.4	1.0
		141.30	10S	3.40	5.9	5.9	5.9	5.7	5.4	5.1	5.0	4.9	4.8	4.8	4.7	4.6	4.6	4.6	4.6	4.4	4.1	3.5	2.8	2.2	1.7	1.3
		141.30	40S	6.55	11.7	11.7	11.7	11.2	10.6	10.1	9.9	9.6	9.5	9.4	9.3	9.1	9.0	9.0	9.0	8.7	8.0	6.8	5.5	4.2	3.3	2.5

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Page 11 of 17

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Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP316** Pipes – ASTM A 312, Seamless continued

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
Design Strength (MPa):					138	138	138	133	125	119	117	114	112	111	110	108	107	106	106	103	95	81	65	50	39	30
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)																					
DN	NPS	mm																								
125	5	141.30	80S	9.53	17.3	17.3	17.3	16.7	15.7	14.9	14.7	14.3	14.0	13.9	13.8	13.5	13.4	13.3	13.3	12.9	11.9	10.2	8.2	6.3	4.9	3.8
150	6	168.28	5S	2.77	4.0	4.0	4.0	3.9	3.7	3.5	3.4	3.3	3.3	3.2	3.2	3.2	3.1	3.1	3.1	3.0	2.8	2.4	1.9	1.5	1.1	0.9
		168.28	10S	3.40	5.0	5.0	5.0	4.8	4.5	4.3	4.2	4.1	4.0	4.0	4.0	3.9	3.9	3.8	3.8	3.7	3.4	2.9	2.3	1.8	1.4	1.1
		168.28	40S	7.11	10.6	10.6	10.6	10.2	9.6	9.1	9.0	8.8	8.6	8.5	8.4	8.3	8.2	8.1	8.1	7.9	7.3	6.2	5.0	3.8	3.0	2.3
		168.28	80S	10.97	16.7	16.7	16.7	16.1	15.1	14.4	14.2	13.8	13.5	13.4	13.3	13.1	12.9	12.8	12.8	12.5	11.5	9.8	7.9	6.0	4.7	3.6
200	8	219.08	5S	2.77	3.1	3.1	3.1	3.0	2.8	2.7	2.6	2.6	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.3	2.1	1.8	1.5	1.1	0.9	0.7
		219.08	10S	3.76	4.2	4.2	4.2	4.1	3.8	3.6	3.6	3.5	3.4	3.4	3.4	3.3	3.3	3.2	3.2	3.1	2.9	2.5	2.0	1.5	1.2	0.9
		219.08	40S	8.18	9.3	9.3	9.3	9.0	8.4	8.0	7.9	7.7	7.6	7.5	7.4	7.3	7.2	7.2	7.2	7.0	6.4	5.5	4.4	3.4	2.6	2.0
		219.08	80S	12.70	14.7	14.7	14.7	14.2	13.4	12.7	12.5	12.2	12.0	11.9	11.8	11.5	11.4	11.3	11.3	11.0	10.2	8.7	6.9	5.3	4.2	3.2
250	10	273.05	5S	3.40	3.0	3.0	3.0	2.9	2.8	2.6	2.6	2.5	2.5	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.1	1.8	1.4	1.1	0.9	0.7
		273.05	10S	4.19	3.8	3.8	3.8	3.6	3.4	3.2	3.2	3.1	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.8	2.6	2.2	1.8	1.4	1.1	0.8
		273.05	40S	9.27	8.4	8.4	8.4	8.1	7.7	7.3	7.2	7.0	6.9	6.8	6.7	6.6	6.6	6.5	6.5	6.3	5.8	5.0	4.0	3.1	2.4	1.8
		273.05	80S	12.70	11.7	11.7	11.7	11.3	10.6	10.1	9.9	9.7	9.5	9.4	9.3	9.2	9.1	9.0	9.0	8.7	8.1	6.9	5.5	4.2	3.3	2.5
300	12	323.85	5S	3.96	3.0	3.0	3.0	2.9	2.7	2.6	2.5	2.5	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.1	1.8	1.4	1.1	0.8	0.6
		323.85	10S	4.57	3.5	3.5	3.5	3.3	3.1	3.0	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.6	2.4	2.0	1.6	1.3	1.0	0.8
		323.85	40S	9.53	7.3	7.3	7.3	7.0	6.6	6.3	6.2	6.0	5.9	5.9	5.8	5.7	5.7	5.6	5.6	5.4	5.0	4.3	3.4	2.6	2.1	1.6
		323.85	80S	12.70	9.8	9.8	9.8	9.5	8.9	8.5	8.3	8.1	8.0	7.9	7.8	7.7	7.6	7.5	7.5	7.3	6.8	5.8	4.6	3.6	2.8	2.1
350	14	355.60	5S	3.96	2.7	2.7	2.7	2.6	2.5	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.0	1.9	1.6	1.3	1.0	0.8	0.6
		355.60	10S	4.78	3.3	3.3	3.3	3.2	3.0	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.3	1.9	1.5	1.2	0.9	0.7
		355.60	40S	9.53	6.6	6.6	6.6	6.4	6.0	5.7	5.6	5.5	5.4	5.3	5.3	5.2	5.1	5.1	5.1	4.9	4.6	3.9	3.1	2.4	1.9	1.4
		355.60	80S	12.70	8.9	8.9	8.9	8.6	8.1	7.7	7.5	7.4	7.2	7.2	7.1	7.0	6.9	6.8	6.8	6.6	6.1	5.2	4.2	3.2	2.5	1.9

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Page 12 of 17

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Print date: 23 July 2021

Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP316** Pipes – ASTM A 312, Seamless continued

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		
Design Strength (MPa):				138	138	138	133	125	119	117	114	112	111	110	108	107	106	106	103	95	81	65	50	39	30		
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)																						
DN	NPS	mm																									
400	16	406.40	5S	4.19	2.5	2.5	2.5	2.4	2.3	2.2	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.7	1.5	1.2	0.9	0.7	0.5	
		406.40	10S	4.78	2.9	2.9	2.9	2.8	2.6	2.5	2.4	2.4	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.1	2.0	1.7	1.4	1.0	0.8	0.6
		406.40	40S	9.53	5.8	5.8	5.8	5.6	5.2	5.0	4.9	4.8	4.7	4.7	4.6	4.5	4.5	4.4	4.4	4.3	4.0	3.4	2.7	2.1	1.6	1.3	
		406.40	80S	12.70	7.8	7.8	7.8	7.5	7.0	6.7	6.6	6.4	6.3	6.2	6.2	6.1	6.0	6.0	6.0	5.8	5.3	4.6	3.7	2.8	2.2	1.7	
450	18	457.20	5S	4.19	2.2	2.2	2.2	2.2	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.5	1.3	1.1	0.8	0.6	0.5	
		457.20	10S	4.78	2.5	2.5	2.5	2.5	2.3	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.8	1.5	1.2	0.9	0.7	0.6	
		457.20	40S	9.53	5.1	5.1	5.1	4.9	4.6	4.4	4.3	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.9	3.8	3.5	3.0	2.4	1.9	1.4	1.1	
		457.20	80S	12.70	6.9	6.9	6.9	6.6	6.2	5.9	5.8	5.7	5.6	5.5	5.5	5.4	5.3	5.3	5.3	5.1	4.7	4.0	3.2	2.5	1.9	1.5	
500	20	508.00	5S	4.78	2.3	2.3	2.3	2.2	2.1	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.6	1.3	1.1	0.8	0.6	0.5	
		508.00	10S	5.54	2.7	2.7	2.7	2.6	2.4	2.3	2.3	2.2	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.8	1.6	1.3	1.0	0.8	0.6	
		508.00	40S	9.53	4.6	4.6	4.6	4.4	4.2	4.0	3.9	3.8	3.7	3.7	3.7	3.6	3.6	3.5	3.5	3.4	3.2	2.7	2.2	1.7	1.3	1.0	
		508.00	80S	12.70	6.2	6.2	6.2	5.9	5.6	5.3	5.2	5.1	5.0	5.0	4.9	4.8	4.8	4.7	4.7	4.6	4.2	3.6	2.9	2.2	1.7	1.3	
550	22	558.80	5S	4.78	2.1	2.1	2.1	2.0	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.4	1.2	1.0	0.8	0.6	0.5	
		558.80	10S	5.54	2.4	2.4	2.4	2.3	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.4	1.1	0.9	0.7	0.5	
600	24	609.60	5S	5.54	2.2	2.2	2.2	2.1	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.5	1.3	1.0	0.8	0.6	0.5	
		609.60	10S	6.35	2.5	2.5	2.5	2.4	2.3	2.2	2.2	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.7	1.5	1.2	0.9	0.7	0.6	
		609.60	40S	9.53	3.8	3.8	3.8	3.7	3.5	3.3	3.2	3.2	3.1	3.1	3.1	3.0	3.0	2.9	2.9	2.9	2.6	2.2	1.8	1.4	1.1	0.8	
		609.60	80S	12.70	5.1	5.1	5.1	4.9	4.6	4.4	4.3	4.2	4.2	4.1	4.1	4.0	4.0	3.9	3.9	3.8	3.5	3.0	2.4	1.9	1.4	1.1	

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Page 13 of 17

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Print date: 23 July 2021

Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP316L** 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	
Design Strength (MPa):				115	115	115	108	101	95	92	91	89	87	86	84	82	80	78	
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)														
DN	NPS	mm																	
10	3/8	17.15	10S	1.65	21.1	21.1	21.1	19.9	18.6	17.5	16.9	16.7	16.4	16.0	15.8	15.4	15.1	14.7	14.3
		17.15	40S	2.31	30.7	30.7	30.7	28.9	27.0	25.4	24.6	24.3	23.8	23.2	23.0	22.4	21.9	21.4	20.8
		17.15	80S	3.20	44.9	44.9	44.9	42.1	39.4	37.1	35.9	35.5	34.7	34.0	33.6	32.8	32.0	31.2	30.4
15	1/2	21.34	5S	1.65	16.7	16.7	16.7	15.7	14.7	13.8	13.4	13.2	12.9	12.6	12.5	12.2	11.9	11.6	11.3
		21.34	10S	2.11	21.8	21.8	21.8	20.5	19.1	18.0	17.4	17.2	16.9	16.5	16.3	15.9	15.5	15.2	14.8
		21.34	40S	2.77	29.5	29.5	29.5	27.7	25.9	24.3	23.6	23.3	22.8	22.3	22.0	21.5	21.0	20.5	20.0
		21.34	80S	3.73	41.5	41.5	41.5	39.0	36.5	34.3	33.2	32.9	32.1	31.4	31.1	30.3	29.6	28.9	28.2
20	3/4	26.67	5S	1.65	13.2	13.2	13.2	12.4	11.6	10.9	10.5	10.4	10.2	10.0	9.8	9.6	9.4	9.2	8.9
		26.67	10S	2.11	17.1	17.1	17.1	16.1	15.0	14.1	13.7	13.5	13.2	12.9	12.8	12.5	12.2	11.9	11.6
		26.67	40S	2.87	23.9	23.9	23.9	22.5	21.0	19.8	19.1	18.9	18.5	18.1	17.9	17.5	17.0	16.6	16.2
		26.67	80S	3.91	33.8	33.8	33.8	31.8	29.7	28.0	27.1	26.8	26.2	25.6	25.3	24.7	24.1	23.5	23.0
25	1	33.40	5S	1.65	10.4	10.4	10.4	9.8	9.1	8.6	8.3	8.2	8.0	7.9	7.8	7.6	7.4	7.2	7.0
		33.40	10S	2.77	18.0	18.0	18.0	16.9	15.8	14.9	14.4	14.2	13.9	13.6	13.5	13.1	12.8	12.5	12.2
		33.40	40S	3.38	22.3	22.3	22.3	21.0	19.6	18.5	17.9	17.7	17.3	16.9	16.7	16.3	15.9	15.5	15.2
		33.40	80S	4.55	31.1	31.1	31.1	29.2	27.3	25.7	24.9	24.6	24.1	23.5	23.3	22.7	22.2	21.7	21.1
32	1 1/4	42.16	5S	1.65	8.2	8.2	8.2	7.7	7.2	6.7	6.5	6.5	6.3	6.2	6.1	6.0	5.8	5.7	5.5
		42.16	10S	2.77	14.0	14.0	14.0	13.2	12.3	11.6	11.2	11.1	10.9	10.6	10.5	10.2	10.0	9.8	9.5
		42.16	40S	3.56	18.3	18.3	18.3	17.2	16.1	15.2	14.7	14.5	14.2	13.9	13.7	13.4	13.1	12.8	12.4
		42.16	80S	4.85	25.7	25.7	25.7	24.2	22.6	21.3	20.6	20.4	19.9	19.5	19.3	18.8	18.4	17.9	17.5
40	1 1/2	48.26	5S	1.65	7.1	7.1	7.1	6.7	6.2	5.9	5.7	5.6	5.5	5.4	5.3	5.2	5.1	4.9	4.8
		48.26	10S	2.77	12.2	12.2	12.2	11.4	10.7	10.0	9.7	9.6	9.4	9.2	9.1	8.9	8.7	8.5	8.2
		48.26	40S	3.68	16.4	16.4	16.4	15.4	14.4	13.6	13.2	13.0	12.7	12.4	12.3	12.0	11.7	11.4	11.2
		48.26	80S	5.08	23.3	23.3	23.3	21.9	20.5	19.3	18.7	18.5	18.1	17.7	17.4	17.0	16.6	16.2	15.8

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Page 14 of 17

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Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP316L** Pipes – ASTM A 312, Seamless continued

Allowable Working Pressure at Temperature																			
Temperature (°C):					50	100	150	200	250	300	325	350	375	400	425	450	475	500	525
Design Strength (MPa):					115	115	115	108	101	95	92	91	89	87	86	84	82	80	78
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)														
DN	NPS	mm																	
50	2	60.33	5S	1.65	5.6	5.6	5.6	5.3	5.0	4.7	4.5	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.8
		60.33	10S	2.77	9.6	9.6	9.6	9.0	8.5	8.0	7.7	7.6	7.5	7.3	7.2	7.0	6.9	6.7	6.5
		60.33	40S	3.91	13.8	13.8	13.8	13.0	12.1	11.4	11.1	10.9	10.7	10.5	10.3	10.1	9.9	9.6	9.4
		60.33	80S	5.54	20.1	20.1	20.1	18.9	17.6	16.6	16.1	15.9	15.6	15.2	15.0	14.7	14.3	14.0	13.6
65	2½	73.03	5S	2.11	6.0	6.0	6.0	5.6	5.2	4.9	4.8	4.7	4.6	4.5	4.5	4.4	4.3	4.1	4.0
		73.03	10S	3.05	8.7	8.7	8.7	8.2	7.7	7.2	7.0	6.9	6.8	6.6	6.5	6.4	6.2	6.1	5.9
		73.03	40S	5.16	15.2	15.2	15.2	14.2	13.3	12.5	12.1	12.0	11.7	11.5	11.3	11.1	10.8	10.5	10.3
		73.03	80S	7.01	21.1	21.1	21.1	19.8	18.5	17.4	16.9	16.7	16.3	16.0	15.8	15.4	15.0	14.7	14.3
80	3	88.90	5S	2.11	4.9	4.9	4.9	4.6	4.3	4.0	3.9	3.9	3.8	3.7	3.6	3.6	3.5	3.4	3.3
		88.90	10S	3.05	7.1	7.1	7.1	6.7	6.3	5.9	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.0	4.8
		88.90	40S	5.49	13.1	13.1	13.1	12.3	11.5	10.9	10.5	10.4	10.2	9.9	9.8	9.6	9.4	9.1	8.9
		88.90	80S	7.62	18.6	18.6	18.6	17.5	16.4	15.4	14.9	14.8	14.4	14.1	13.9	13.6	13.3	13.0	12.6
90	3½	101.60	5S	2.11	4.3	4.3	4.3	4.0	3.7	3.5	3.4	3.4	3.3	3.2	3.2	3.1	3.0	3.0	2.9
		101.60	10S	3.05	6.2	6.2	6.2	5.8	5.4	5.1	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2
		101.60	40S	5.74	12.0	12.0	12.0	11.2	10.5	9.9	9.6	9.5	9.3	9.0	8.9	8.7	8.5	8.3	8.1
		101.60	80S	8.08	17.2	17.2	17.2	16.2	15.1	14.2	13.8	13.6	13.3	13.0	12.9	12.6	12.3	12.0	11.7
100	4	114.30	5S	2.11	3.8	3.8	3.8	3.5	3.3	3.1	3.0	3.0	2.9	2.9	2.8	2.8	2.7	2.6	2.6
		114.30	10S	3.05	5.5	5.5	5.5	5.2	4.8	4.5	4.4	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.7
		114.30	40S	6.02	11.1	11.1	11.1	10.4	9.8	9.2	8.9	8.8	8.6	8.4	8.3	8.1	7.9	7.7	7.5
		114.30	80S	8.56	16.1	16.1	16.1	15.1	14.2	13.3	12.9	12.8	12.5	12.2	12.1	11.8	11.5	11.2	10.9
125	5	141.30	5S	2.77	4.0	4.0	4.0	3.8	3.5	3.3	3.2	3.2	3.1	3.0	3.0	2.9	2.9	2.8	2.7
		141.30	10S	3.40	4.9	4.9	4.9	4.6	4.3	4.1	4.0	3.9	3.8	3.7	3.7	3.6	3.5	3.4	3.4
		141.30	40S	6.55	9.7	9.7	9.7	9.1	8.5	8.0	7.8	7.7	7.5	7.4	7.3	7.1	6.9	6.8	6.6

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Page 15 of 17

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Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP316L** Pipes – ASTM A 312, Seamless continued

Allowable Working Pressure at Temperature																			
Temperature (°C):				50	100	150	200	250	300	325	350	375	400	425	450	475	500	525	
Design Strength (MPa):				115	115	115	108	101	95	92	91	89	87	86	84	82	80	78	
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)														
DN	NPS	mm																	
125	5	141.30	80S	9.53	14.4	14.4	14.4	13.5	12.7	11.9	11.5	11.4	11.2	10.9	10.8	10.5	10.3	10.0	9.8
150	6	168.28	5S	2.77	3.4	3.4	3.4	3.2	3.0	2.8	2.7	2.7	2.6	2.5	2.5	2.5	2.4	2.3	2.3
		168.28	10S	3.40	4.1	4.1	4.1	3.9	3.6	3.4	3.3	3.3	3.2	3.1	3.1	3.0	3.0	2.9	2.8
		168.28	40S	7.11	8.8	8.8	8.8	8.3	7.8	7.3	7.1	7.0	6.8	6.7	6.6	6.4	6.3	6.1	6.0
		168.28	80S	10.97	13.9	13.9	13.9	13.1	12.2	11.5	11.1	11.0	10.8	10.5	10.4	10.2	9.9	9.7	9.4
200	8	219.08	5S	2.77	2.6	2.6	2.6	2.4	2.3	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7
		219.08	10S	3.76	3.5	3.5	3.5	3.3	3.1	2.9	2.8	2.8	2.7	2.7	2.6	2.6	2.5	2.4	2.4
		219.08	40S	8.18	7.8	7.8	7.8	7.3	6.8	6.4	6.2	6.1	6.0	5.9	5.8	5.7	5.5	5.4	5.3
		219.08	80S	12.70	12.3	12.3	12.3	11.5	10.8	10.2	9.8	9.7	9.5	9.3	9.2	9.0	8.8	8.5	8.3
250	10	273.05	5S	3.40	2.5	2.5	2.5	2.4	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7
		273.05	10S	4.19	3.1	3.1	3.1	2.9	2.7	2.6	2.5	2.5	2.4	2.4	2.3	2.3	2.2	2.2	2.1
		273.05	40S	9.27	7.0	7.0	7.0	6.6	6.2	5.8	5.6	5.6	5.4	5.3	5.3	5.1	5.0	4.9	4.8
		273.05	80S	12.70	9.8	9.8	9.8	9.2	8.6	8.1	7.8	7.7	7.6	7.4	7.3	7.1	7.0	6.8	6.6
300	12	323.85	5S	3.96	2.5	2.5	2.5	2.3	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.7
		323.85	10S	4.57	2.9	2.9	2.9	2.8	2.6	2.5	2.4	2.4	2.3	2.3	2.3	2.2	2.1	2.1	2.0
		323.85	40S	9.53	6.1	6.1	6.1	5.7	5.3	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1
		323.85	80S	12.70	8.2	8.2	8.2	7.7	7.2	6.8	6.5	6.5	6.3	6.2	6.1	6.0	5.8	5.7	5.5
350	14	355.60	5S	3.96	2.3	2.3	2.3	2.3	2.1	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.6
		355.60	10S	4.78	2.7	2.7	2.7	2.6	2.4	2.3	2.2	2.2	2.1	2.1	2.0	2.0	2.0	1.9	1.9
		355.60	40S	9.53	5.5	5.5	5.5	5.2	4.9	4.6	4.4	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.7
		355.60	80S	12.70	7.4	7.4	7.4	7.0	6.5	6.1	5.9	5.9	5.7	5.6	5.5	5.4	5.3	5.2	5.0

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Page 16 of 17

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Pressure Rating Tables for Stainless Steel Pipe

Stainless Steel Grade **TP316L** Pipes – ASTM A 312, Seamless continued

Allowable Working Pressure at Temperature																			
Temperature (°C):				50	100	150	200	250	300	325	350	375	400	425	450	475	500	525	
Design Strength (MPa):				115	115	115	108	101	95	92	91	89	87	86	84	82	80	78	
Size			Sch No	WT (mm)	Allowable Working Pressure (MPa)														
DN	NPS	mm																	
400	16	406.40	5S	4.19	2.1	2.1	2.1	2.0	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.4
		406.40	10S	4.78	2.4	2.4	2.4	2.2	2.1	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.6
		406.40	40S	9.53	4.8	4.8	4.8	4.5	4.2	4.0	3.9	3.8	3.7	3.6	3.6	3.5	3.4	3.4	3.3
		406.40	80S	12.70	6.5	6.5	6.5	6.1	5.7	5.3	5.2	5.1	5.0	4.9	4.8	4.7	4.6	4.5	4.4
450	18	457.20	5S	4.19	1.9	1.9	1.9	2.0	1.9	1.8	1.7	1.7	1.6	1.6	1.6	1.6	1.5	1.5	1.4
		457.20	10S	4.78	2.1	2.1	2.1	2.3	2.2	2.0	2.0	2.0	1.9	1.9	1.8	1.8	1.8	1.7	1.7
		457.20	40S	9.53	4.3	4.3	4.3	4.0	3.8	3.5	3.4	3.4	3.3	3.2	3.2	3.1	3.0	3.0	2.9
		457.20	80S	12.70	5.7	5.7	5.7	5.4	5.0	4.7	4.6	4.5	4.4	4.3	4.3	4.2	4.1	4.0	3.9
500	20	508.00	5S	4.78	1.9	1.9	1.9	1.8	1.7	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.4	1.3	1.3
		508.00	10S	5.54	2.2	2.2	2.2	2.1	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.5	1.5
		508.00	40S	9.53	3.8	3.8	3.8	3.6	3.4	3.2	3.1	3.0	3.0	2.9	2.9	2.8	2.7	2.7	2.6
		508.00	80S	12.70	5.1	5.1	5.1	4.8	4.5	4.2	4.1	4.1	4.0	3.9	3.8	3.8	3.7	3.6	3.5
550	22	558.80	5S	4.78	1.7	1.7	1.7	1.9	1.8	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.4	1.4
		558.80	10S	5.54	2.0	2.0	2.0	2.2	2.0	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6
600	24	609.60	5S	5.54	1.8	1.8	1.8	1.7	1.6	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.3
		609.60	10S	6.35	2.1	2.1	2.1	2.0	1.9	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.5	1.5	1.4
		609.60	40S	9.53	3.2	3.2	3.2	3.0	2.8	2.6	2.6	2.5	2.5	2.4	2.4	2.3	2.3	2.2	2.2
		609.60	80S	12.70	4.3	4.3	4.3	4.0	3.8	3.5	3.4	3.4	3.3	3.2	3.2	3.1	3.0	3.0	2.9

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Page 17 of 17

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