



MIDWAY METALS - THE STANDARD IN STAINLESS STEEL

NOMINAL		SCHEDULE 10S								SCHEDULE 40S								SCHEDULE 80S							
BORE SIZE		TEMPERATURE DEG C°								TEMPERATURE DEG C°								TEMPERATURE DEG C,							
mm	INCH	50	100	150	200	250	300	350	400	50	100	150	200	250	300	350	400	50	100	150	200	250	300	350	400
6	1/8	25.1	21.9	19	17.5	16.2	15.2	14.7	14.1	35	30.5	26.5	24.4	22.6	21.2	20.6	19.7	48.7	42.6	36.9	34	31.5	29.5	28.7	27.4
8	1/4	25.1	21.9	19	17.5	16.2	15.2	14.8	14.1	34	29.8	25.8	23.7	22	20.6	20	19.2	45.9	40.1	34.7	32	29.7	27.8	27	25.8
10	3/8	20.1	17.6	15.2	14	13	12.2	11.8	11.3	28.1	24.6	21.3	19.6	18.2	17	16.5	15.8	39	34.1	29.5	27.2	25.2	23.6	22.9	21.9
15	1/2	20.6	18	15.6	14.4	13.3	12.5	12.1	11.6	27.1	23.7	20.5	18.9	17.5	16.4	15.9	15.2	36.5	31.9	27.6	25.4	23.6	22.1	21.5	20.5
20	3/4	16.5	14.4	12.4	11.5	10.6	10	9.7	9.3	27.4	19.6	16.9	15.6	14.5	13.5	13.2	12.6	30.5	26.7	23.1	21.3	19.7	18.5	17.9	17.2
25	1	17.3	15.1	13.1	12	11.2	10.4	10.2	9.7	22.4	18.4	15.9	14.7	13.6	12.8	12.4	11.9	28.4	24.8	21.15	19.8	18.4	17.2	16.7	16
32	1 1/4	13.7	11.9	10.3	9.5	8.8	8.3	8	7.7	21.1	15.4	13.3	12.3	11.4	10.6	10.3	9.9	23.9	20.9	18.1	16.7	15.5	14.5	14.1	13.5
40	1 1/2	11.9	10.4	9	8.3	7.7	7.2	7	6.7	17.6	13.9	12	11.1	10.3	9.6	9.3	8.9	21.9	19.1	16.6	15.3	14.2	13.3	12.9	12.3
50	2	9.6	8.4	7.2	6.7	6.2	5.8	5.6	5.4	15.9	11.8	10.2	9.4	8.7	8.2	7.9	7.6	19.1	16.7	14.5	13.3	12.4	11.6	11.3	10.8
65	2 1/2	8.7	7.6	6.6	6.1	5.6	5.3	5.1	4.9	14.7	12.9	11.1	10.3	9.5	8.9	8.7	8.3	20	17.5	15.1	13.9	12.9	12.1	11.8	11.3
80	3	7.1	6.2	5.4	5	4.6	4.3	4.2	4	12.9	11.2	9.7	9	8.3	7.8	7.6	7.2	17.9	15.6	13.5	12.4	11.6	10.8	10.5	10.1
90	3 1/2	6.3	5.5	4.7	4.4	4	3.8	3.7	3.5	11.8	10.3	8.9	8.2	7.6	7.1	6.9	6.6	16.6	14.5	12.5	11.6	10.7	10	9.7	9.3
100	4	5.6	4.9	4.2	3.9	3.6	3.4	3.3	3.1	11	9.6	8.3	7.7	7.1	6.6	6.5	6.2	15.6	13.6	11.8	10.9	10.1	9.4	9.2	8.8
125	5	5	4.4	3.8	3.5	3.2	3	2.9	2.8	9.7	8.4	7.3	6.7	6.2	5.8	5.7	5.4	14	12.3	10.6	9.8	9.1	8.5	8.3	7.9
150	6	4.2	3.7	3.2	2.9	2.7	2.5	2.5	2.4	8.8	7.7	6.7	6.1	5.7	5.3	5.2	5	13.6	11.9	10.3	9.5	8.8	8.2	8	7.6
200	8	3.6	3.1	2.7	2.5	2.3	2.2	2.1	2	7.8	6.8	5.9	5.4	5	4.7	4.6	4.4	12.1	10.5	9.1	8.4	7.8	7.3	7.1	6.8
250	10	3.2	2.8	2.4	2.2	2.1	1.9	1.9	1.8	7.1	6.2	5.3	4.9	4.6	4.3	4.2	4	9.7	8.5	7.3	6.8	6.3	5.9	5.7	5.5
300	12	2.9	2.6	2.2	2	1.9	1.8	1.7	1.7	6.1	5.4	4.6	4.3	4	3.7	3.6	3.4	8.2	7.1	6.2	5.7	5.3	4.9	4.6	4.6

NOMINAL WORKING PRESSURE FOR 304L & 316L SEAMLESS PIPE

The figures above are Nominal Working Pressure for 304L & 316L Seamless Stainless Steel Pipe under constant operating conditions, in MPa

Where pressures or temperature fluctuations occur, increased safety factors should be adopted. Listed below are factors of safety recommended for varying pressure conditions.

- 5 To bursting pressure for no pressure fluctuations.
- 8 To bursting pressure for small/regular pressure fluctuations.
- 12 To bursting pressure for large/prolonged pressure fluctuations.

The figures given for nominal working pressures and factor of safety are for quick reference purposes only. Detailed design calculations should be in accordance with the applicable design standard.

WELDED PIPE

Nominal working pressure can be calculated by multiplying the figures in the tables by 0.85 (Weld Joint Efficiency factor).