



MAXIMUM ALLOWABLE WORKING PRESSURE (PSI) AT DESIGN TEMPERATURE (F)
 ASTM A312 Grade 304/304L Stainless Steel Seamless Pipe Nipples

FOR REFERENCE ONLY

Nominal Pipe Size	Wall Thickness	Weight Class	Schedule No.	Temperature								
				-425 to 100	200	300	400	500	600	700	800	850
1/8	0.068	STD	40	2620	2620	2620	2480	2320	2195	2120	2040	2010
	0.095	XS	80	4860	4860	4860	4600	4305	4075	3930	3785	3725
1/4	0.088	STD	40	2120	2120	2120	2005	1880	1775	1715	1650	1625
	0.119	XS	80	4010	4010	4010	3795	3555	3365	3245	3125	3075
3/8	0.091	STD	40	1820	1820	1820	1720	1610	1525	1470	1415	1395
	0.126	XS	80	3535	3535	3535	3345	3130	2965	2855	2750	2710
1/2	0.109	STD	40	1580	1580	1580	1495	1400	1325	1275	1230	1210
	0.147	XS	80	3050	3050	3050	2885	2705	2560	2465	2375	2340
	0.188	...	160	4700	4655	4655	4445	4165	3940	3800	3655	3600
3/4	0.113	STD	40	1375	1375	1375	1300	1215	1150	1110	1070	1050
	0.154	XS	80	2625	2625	2625	2485	2325	2200	2120	2045	2010
	0.218	...	160	4690	4690	4690	4440	4160	3935	3795	3655	3595
1	0.133	STD	40	1225	1225	1225	1155	1085	1025	990	950	935
	0.179	XS	80	2335	2335	2335	2210	2070	1955	1885	1815	1790
	0.250	...	160	4165	4165	4165	3940	3690	3495	3370	3245	3195
1-1/4	0.140	STD	40	1090	1090	1090	1035	970	915	885	850	835
	0.191	XS	80	2060	2060	2060	1950	1825	1725	1665	1605	1580
	0.250	...	160	3235	3235	3235	3060	2865	2710	2615	2515	2480
1-1/2	0.145	STD	40	1030	1030	1030	975	915	865	835	805	790
	0.200	XS	80	1940	1940	1940	1835	1720	1625	1565	1510	1485
	0.281	...	160	3345	3345	3345	3165	2965	2805	2705	2605	2565
2	0.154	STD	40	935	935	935	885	830	785	755	730	720
	0.218	XS	80	1775	1775	1775	1680	1575	1490	1435	1385	1360
	0.344	...	160	3530	3530	3530	3340	3130	2960	2855	2745	2705
2-1/2	0.203	STD	40	920	920	920	870	815	775	745	715	705
	0.276	XS	80	1710	1710	1710	1620	1515	1435	1385	1330	1310
	0.375	...	160	2830	2830	2830	2675	2510	2370	2290	2205	2170
3	0.216	STD	40	865	865	865	820	770	725	700	675	665
	0.300	XS	80	1610	1610	1610	1525	1425	1350	1300	1255	1235
	0.438	...	160	2890	2890	2890	2735	2560	2425	2335	2250	2215
3-1/2	0.226	STD	40	830	830	830	790	740	700	675	650	640
	0.318	XS	80	1545	1545	1545	1460	1370	1295	1250	1200	1185
4	0.237	STD	40	810	810	810	770	720	680	655	630	625
	0.337	XS	80	1500	1500	1500	1420	1330	1255	1210	1165	1150
	0.531	...	160	2895	2895	2895	2740	2565	2425	2340	2255	2220
5	0.258	STD	40	770	770	770	725	680	645	620	600	590
	0.375	XS	80	1415	1415	1415	1340	1255	1185	1145	1100	1085
	0.625	...	160	2865	2865	2865	2715	2540	2405	2320	2230	2200
6	0.280	STD	40	745	745	745	705	660	625	600	580	570
	0.432	XS	80	1450	1450	1450	1370	1285	1215	1170	1130	1110
	0.719	...	160	2850	2850	2850	2695	2525	2390	2305	2220	2185
8	0.322	STD	40	715	715	715	675	635	600	580	555	550
	0.500	XS	80	1350	1350	1350	1275	1195	1130	1090	1050	1035
	0.906	...	160	2865	2865	2865	2710	2540	2405	2320	2230	2195

NOTES:

- 1). The allowable working pressures were calculated based on formulas and allowable stress as specified in the ASME B31.3 Process Piping Code.
- 2). Considerations were taken into account for the wall thickness material removed by threading.
- 3). No allowances were made for corrosion, erosion, mechanical loads, and/or bending moments.
- 4). Allowable working pressures listed are non-shock working pressures.
- 5). For temperatures and working pressures above those listed consult the end users piping engineer.
- 6). This information is to be used as a reference guide only. Specifying the correct pipe schedule and pressure class of fitting depends on many different factors. Therefore, it is the ultimate responsibility of the end user's piping engineer to specify the correct pipe schedule and pressure class of fitting that will safely work in his intended application.