



The Phoenix Forge Group
PHOENIX * CAPITOL * CAMCO * CAPPRODUCTS



MAXIMUM ALLOWABLE WORKING PRESSURE (PSI) AT DESIGN TEMPERATURE (F)
 ASTM A312 Grade 316/316L 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	3425	3425	3425	3180	2955	2770	2645	2545	2480
	0.095	XS	80	6075	6075	6075	5635	5235	4910	4690	4510	4400
1/4	0.088	STD	40	2885	2885	2885	2675	2485	2330	2225	2140	2090
	0.119	XS	80	5120	5120	5120	4755	4415	4140	3955	3805	3710
3/8	0.091	STD	40	2440	2440	2440	2265	2105	1975	1885	1810	1770
	0.126	XS	80	4450	4450	4450	4130	3840	3600	3440	3305	3225
1/2	0.109	STD	40	2170	2170	2170	2015	1870	1755	1675	1610	1575
	0.147	XS	80	3905	3905	3905	3625	3365	3155	3015	2900	2830
	0.188	...	160	5855	5855	5855	5435	5050	4730	4520	4345	4240
3/4	0.113	STD	40	1855	1855	1855	1725	1600	1500	1435	1380	1345
	0.154	XS	80	3330	3330	3330	3090	2870	2690	2570	2470	2410
	0.218	...	160	5770	5770	5770	5355	4975	4665	4460	4285	4180
1	0.133	STD	40	1675	1675	1675	1555	1445	1355	1295	1245	1215
	0.179	XS	80	2975	2975	2975	2765	2565	2405	2300	2210	2155
	0.250	...	160	5120	5120	5120	4750	4415	4140	3955	3800	3710
1-1/4	0.140	STD	40	1465	1465	1465	1360	1265	1185	1135	1090	1060
	0.191	XS	80	2595	2595	2595	2410	2235	2095	2005	1925	1880
	0.250	...	160	3975	3975	3975	3690	3430	3215	3070	2950	2880
1-1/2	0.145	STD	40	1370	1370	1370	1270	1180	1105	1055	1015	990
	0.200	XS	80	2425	2425	2425	2250	2090	1960	1875	1800	1755
	0.281	...	160	4080	4080	4080	3785	3515	3300	3150	3030	2955
2	0.154	STD	40	1220	1220	1220	1135	1055	990	945	905	885
	0.218	XS	80	2195	2195	2195	2040	1895	1775	1695	1630	1590
	0.344	...	160	4250	4250	4250	3945	3665	3435	3285	3155	3080
2-1/2	0.203	STD	40	1230	1230	1230	1145	1060	995	950	915	895
	0.276	XS	80	2150	2150	2150	1995	1855	1740	1660	1595	1560
	0.375	...	160	3460	3460	3460	3210	2985	2795	2670	2570	2505
3	0.216	STD	40	1135	1135	1135	1055	980	920	880	845	825
	0.300	XS	80	2000	2000	2000	1855	1725	1615	1545	1485	1450
	0.438	...	160	3495	3495	3495	3245	3015	2825	2700	2595	2535
3-1/2	0.226	STD	40	1080	1080	1080	1000	930	870	835	800	780
	0.318	XS	80	1905	1905	1905	1765	1640	1540	1470	1415	1380
4	0.237	STD	40	1040	1040	1040	965	900	845	805	775	755
	0.337	XS	80	1835	1835	1835	1705	1585	1485	1420	1365	1330
	0.531	...	160	3465	3465	3465	3215	2985	2800	2675	2570	2510
5	0.258	STD	40	970	970	970	900	835	785	750	720	705
	0.375	XS	80	1720	1720	1720	1595	1480	1390	1330	1275	1245
	0.625	...	160	3410	3410	3410	3165	2940	2755	2635	2530	2470
6	0.280	STD	40	930	930	930	860	800	750	715	690	670
	0.432	XS	80	1745	1745	1745	1620	1505	1410	1345	1295	1265
	0.719	...	160	3375	3375	3375	3130	2910	2725	2605	2505	2445
8	0.322	STD	40	880	880	880	815	755	710	680	650	635
	0.500	XS	80	1610	1610	1610	1495	1385	1300	1245	1195	1165
	0.906	...	160	3375	3375	3375	3130	2910	2725	2605	2505	2445

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.