The Phoenix Forge Group
PHOENIX * CAPITOL * CAMCO * CAPPRODUCTS

ISO 9001

MAXIMUM ALLOWABLE WORKING PRESSURE (PSI) AT DESIGN TEMPERATURE (F)
ASTM A312 Grade 316/316L Stainless Steel Welded 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	2740	2740	2740	2545	2365	2215	2115	2035	1985
	0.095	XS	80	4860	4860	4860	4510	4190	3930	3755	3610	3520
1/4	0.088	STD	40	2305	2305	2305	2140	1990	1865	1780	1715	1670
	0.119	XS	80	4095	4095	4095	3805	3535	3310	3165	3040	2970
3/8	0.091	STD	40	1955	1955	1955	1810	1685	1580	1510	1450	1415
	0.126	XS	80	3560	3560	3560	3305	3070	2880	2750	2645	2580
1/2	0.109	STD	40	1735	1735	1735	1610	1500	1405	1340	1290	1260
	0.147	XS	80	3125	3125	3125	2900	2695	2525	2410	2320	2265
3/4	0.113	STD	40	1485	1485	1485	1380	1280	1200	1150	1105	1075
	0.154	XS	80	2660	2660	2660	2470	2295	2150	2055	1975	1930
1	0.133	STD	40	1340	1340	1340	1245	1155	1085	1035	995	970
	0.179	XS	80	2380	2380	2380	2210	2055	1925	1840	1770	1725
1-1/4	0.140	STD	40	1175	1175	1175	1090	1010	950	905	870	850
	0.191	XS	80	2075	2075	2075	1925	1790	1680	1605	1540	1505
1-1/2	0.145	STD	40	1095	1095	1095	1015	945	885	845	815	795
	0.200	XS	80	1940	1940	1940	1800	1675	1570	1500	1440	1405
2	0.154	STD	40	975	975	975	905	845	790	755	725	710
	0.218	XS	80	1755	1755	1755	1630	1515	1420	1360	1305	1275
2-1/2	0.203	STD	40	985	985	985	915	850	795	760	730	715
	0.276	XS	80	1720	1720	1720	1595	1485	1390	1330	1275	1245
3	0.216	STD	40	910	910	910	845	785	735	705	675	660
	0.300	XS	80	1600	1600	1600	1485	1380	1295	1235	1190	1160
3-1/2	0.226	STD	40	895	895	895	800	745	700	665	640	625
	0.318	XS	80	1525	1525	1525	1415	1315	1230	1175	1130	1105
4	0.237	STD	40	835	835	835	775	720	675	645	620	605
	0.337	XS	80	1470	1470	1470	1365	1265	1190	1135	1090	1065

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.

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