

MAXIMUM ALLOWABLE WORKING PRESSURE (PSI) AT DESIGN TEMPERATURE (F)
ASTM A53 Grade B Carbon Steel ERW Welded Threaded Pipe Nipples
FOR REFERENCE ONLY

Nominal Pipe Size	Wall Thickness	Schedule No.	Temperature						
			-20 to 100	200	300	400	500	600	650
1/8	0.068	40	2510	2510	2510	2510	2375	2170	2135
	0.095	80	4655	4655	4655	4655	4400	4025	3960
1/4	0.088	40	2030	2030	2030	2030	1920	1755	1725
	0.119	80	3845	3845	3845	3845	3635	3325	3270
3/8	0.091	40	1745	1745	1745	1745	1645	1505	1480
	0.126	80	3385	3385	3385	3385	3200	2930	2880
1/2	0.109	40	1515	1515	1515	1515	1430	1310	1285
	0.147	80	2925	2925	2925	2925	2765	2530	2485
3/4	0.113	40	1315	1315	1315	1315	1245	1135	1120
	0.154	80	2515	2515	2515	2515	2380	2175	2140
1	0.133	40	1170	1170	1170	1170	1105	1015	995
	0.179	80	2235	2235	2235	2235	2115	1935	1900
1-1/4	0.140	40	1045	1045	1045	1045	990	905	890
	0.191	80	1975	1975	1975	1975	1865	1705	1675
1-1/2	0.145	40	990	990	990	990	935	855	840
	0.200	80	1860	1860	1860	1860	1755	1605	1580
2	0.154	40	900	900	900	900	850	775	765
	0.218	80	1700	1700	1700	1700	1610	1470	1445
2-1/2	0.203	40	885	885	885	885	835	765	750
	0.276	80	1640	1640	1640	1640	1550	1420	1395
3	0.216	40	830	830	830	830	785	720	705
	0.300	80	1545	1545	1545	1545	1460	1335	1310
3-1/2	0.226	40	800	800	800	800	755	690	680
	0.318	80	1480	1480	1480	1480	1395	1280	1255
4	0.237	40	780	780	780	780	735	675	660
	0.337	80	1435	1435	1435	1435	1355	1240	1220

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.

KK 11/08