



Steel Welded Pipe - Pressure & Temperature Ratings

Toll-Free: 1-844-DTC-HOSE

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	Weight Class	Schedule Number	System Temperature							
			-20	200	300	400	500	600	650	
			to 100							
1/8	Standard	40	2,510	2,510	2,510	2,510	2,375	2,170	2,135	
	Extra Heavy	80	4,655	4,655	4,655	4,655	4,400	4,025	3,960	
1/4	Standard	40	2,030	2,030	2,030	2,030	1,920	1,755	1,725	
	Extra Heavy	80	3,845	3,845	3,845	3,845	3,635	3,325	3,270	
3/8	Standard	40	1,745	1,745	1,745	1,745	1,645	1,505	1,480	
	Extra Heavy	80	3,385	3,385	3,385	3,385	3,200	2,930	2,880	
1/2	Standard	40	1,515	1,515	1,515	1,515	1,430	1,310	1,285	
	Extra Heavy	80	2,925	2,925	2,925	2,925	2,765	2,530	2,485	
3/4	Standard	40	1,315	1,315	1,315	1,315	1,245	1,135	1,120	
	Extra Heavy	80	2,515	2,515	2,515	2,515	2,380	2,175	2,140	
1	Standard	40	1,170	1,170	1,170	1,170	1,105	1,015	995	
	Extra Heavy	80	2,235	2,235	2,235	2,235	2,115	1,935	1,900	
1 1/4	Standard	40	1,045	1,045	1,045	1,045	990	905	890	
	Extra Heavy	80	1,975	1,975	1,975	1,975	1,865	1,705	1,675	
1 1/2	Standard	40	990	990	990	990	935	855	840	
	Extra Heavy	80	1,860	1,860	1,860	1,860	1,755	1,605	1,580	
2	Standard	40	900	900	900	900	850	775	765	
	Extra Heavy	80	1,700	1,700	1,700	1,700	1,610	1,470	1,445	
2 1/2	Standard	40	885	885	885	885	835	765	750	
	Extra Heavy	80	1,640	1,640	1,640	1,640	1,550	1,420	1,395	
3	Standard	40	830	830	830	830	785	720	705	
	Extra Heavy	80	1,545	1,545	1,545	1,545	1,460	1,335	1,310	
3 1/2	Standard	40	800	800	800	800	755	690	680	
	Extra Heavy	80	1,480	1,480	1,480	1,480	1,395	1,280	1,255	
4	Standard	40	780	780	780	780	735	675	660	
	Extra Heavy	80	1,435	1,435	1,435	1,435	1,355	1,240	1,220	

Please Note:

1. The allowable working pressures were calculated based on formulas and allowable stress as specified in the ASME B31.3 process.
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 depend 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.