

PRESSURE/TEMPERATURE RATINGS OF STEEL AND STAINLESS STEEL FLANGES

150 lb. Flange

Material	Carbon steel			STAINLESS STEEL					
	Temp. °F	Norm.	High	Low	Type	Type	Types	Type	Types
					304	316	304L	316L	321
-20 to 100	285	290	235	275	275	230	275	275	
200	260	260	215	235	240	195	235	245	
300	230	230	210	205	215	175	210	225	
400		200		180	195	160	190	200	
500		170			170	145		170	
600		140			140	140		140	
650		125			125	125		125	
700		110			110	110		110	
750		95			95	95		95	
800		80			80	80		80	
850					65	65		65	
900					50			50	
950					35			35	
1000					20			20	

Pressure in Pounds per square inch, gage (psig)

300 lb. Flange

Material	Carbon steel			STAINLESS STEEL					
	Temp. °F	Norm.	High	Low	Type	Type	Types	Type	Types
					304	316	304L	316L	321
-20 to 100	740	750	620	720	720	600	720	720	
200	675	750	560	600	620	505	610	635	
300	655	730	550	530	560	455	545	590	
400	635	705	530	470	515	415	495	555	
500	600	665	500	435	480	380	460	520	
600	550	605	455	415	450	360	435	490	
650	535	590	450	410	445	350	430	480	
700	535	570	450	405	430	345	420	470	
750	505	505	445	400	425	335	415	460	
800	410	410	370	395	415	330	415	455	
850		270		390	405	320	410	445	
900		170		385	395		405	430	
950		105		375	385		385	385	
1000		50		325	365		355	365	
1050				310	360		345	360	
1100				260	325		300	325	
1150				195	275		235	275	
1200				155	205		180	170	
1250				110	180		140	125	
1300				85	140		105	95	
1350				60	105		80	70	
1400				50	75		60	50	
1450				35	60		50	40	
1500				25	40		40	35	

Pressure in Pounds per square inch, gage (psig)

600 lb. Flange

Material	Carbon steel			STAINLESS STEEL					
	Temp. °F	Norm.	High	Low	Type	Type	Types	Type	Types
					304	316	304L	316L	321
-20 to 100	1480	1550	1235	1440	1440	1200	1440	1440	
200	1350	1500	1225	1200	1240	1015	1220	1270	
300	1315	1455	1095	1055	1120	910	1090	1175	
400	1270	1410	1060	940	1030	825	990	1110	
500	1200	1330	995	875	955	765	915	1035	
600	1095	1210	915	830	905	720	875	985	
650	1075	1175	895	815	890	700	855	960	
700	1065	1135	895	805	865	685	840	935	
750	1010	1010	885	795	845	670	830	920	
800	825	825	740	790	830	660	825	910	
850		535		780	810	645	815	890	
900		345		770	790		810	865	
950		205		750	775		775	775	
1000		105		645	725		715	725	
1050				620	720		695	720	
1100				515	645		605	645	
1150				390	550		475	550	
1200				310	410		365	345	
1250				220	365		280	245	
1300				165	275		210	185	
1350				120	205		165	135	
1400				90	150		125	105	
1450				70	115		95	80	
1500				50	85		75	70	

Pressure in Pounds per square inch, gage (psig)