

# Pressure Temperature Ratings for Carbon Steel Flanges

Pressure Temperature Ratings for Carbon Steel Flanges, PSIG						
Temp, °F	Class					
	150	300	600	900	1500	2500
-20 to 100	285	740	1,480	2,220	3,705	6,170
200	260	680	1,360	2,035	3,395	5,655
300	230	655	1,310	1,965	3,270	5,450
400	200	635	1,265	1,900	3,170	5,280
500	170	605	1,205	1,810	3,015	5,025
600	140	570	1,135	1,705	2,840	4,730
650	125	550	1,100	1,650	2,745	4,575
700	110	530	1,060	1,590	2,655	4,425
750	95	505	1,015	1,520	2,535	4,230
800	80	410	825	1,235	2,055	3,430
850	65	320	640	955	1,595	2,655
900	50	230	460	690	1,150	1,915
950	35	135	275	410	685	1,145
1000	20	85	170	255	430	715

## Materials Included

SA-105

SA-350 LF 3

SA-350 Gr. LF2 (Note 1)

SA-350 Gr. LF6 Cl. 1 (note 2)

## Notes:

(1) Upon prolonged exposure to temperatures above 800°F, the carbide phase of steel may be converted to graphite. Permissible but not recommended for prolonged use above 800°F

(2) Not to be used over 500°F

# Pressure Temperature Ratings for Carbon Steel Flanges

Pressure Temperature Ratings for 304 Stainless Steel Flanges, PSIG						
Temp, °F	Class					
	150	300	600	900	1500	2500
-20 to 100	275	720	1,440	2,160	3,600	6,000
200	230	600	1,200	1,800	3,000	5,000
300	205	540	1,075	1,615	2,690	4,480
400	190	495	995	1,490	2,485	4,140
500	170	465	930	1,395	2,330	3,880
600	140	440	885	1,325	2,210	3,680
650	125	430	865	1,295	2,160	3,600
700	110	420	845	1,265	2,110	3,520
750	95	415	825	1,240	2,065	3,440
800	80	405	810	1,215	2,030	3,380
850	65	395	790	1,190	1,980	3,300
900	50	390	780	1,165	1,945	3,240
950	35	380	765	1,145	1,910	3,180
1000	20	355	710	1,065	1,770	2,950
1050		325	650	975	1,630	2,715
1100		255	515	770	1,285	2,145
1150		205	410	615	1,030	1,715
1200		165	330	495	825	1,370
1250		135	265	400	670	1,115
1300		115	225	340	565	945
1350		95	185	280	465	770
1400		75	150	225	380	630
1450		60	115	175	290	485
1500		40	85	125	205	345

### Materials Included

SA-182 F304 (note 1)

SA-182 F304H

### Notes:

(1) At temperatures over 1000°F, use only when the carbon content is

0.04% or higher

(2) Not to be used over 800°F

# Pressure Temperature Ratings for Carbon Steel Flanges

Pressure Temperature Ratings for 316 Stainless Steel Flanges, PSIG						
Temp, °F	Class					
	150	300	600	900	1500	2500
-20 to 100	275	720	1,440	2,160	3,600	6,000
200	235	620	1,240	1,860	3,095	5,160
300	215	560	1,120	1,680	2,795	4,660
400	195	515	1,025	1,540	2,570	4,280
500	170	480	955	1,435	2,390	3,980
600	140	450	900	1,355	2,255	3,760
650	125	440	885	1,325	2,210	3,680
700	110	435	870	1,305	2,170	3,620
750	95	425	855	1,280	2,135	3,560
800	80	420	845	1,265	2,110	3,520
850	65	420	835	1,255	2,090	3,480
900	50	415	830	1,245	2,075	3,460
950	35	385	775	1,160	1,930	3,220
1000	20	365	725	1,090	1,820	3,030
1050		360	720	1,080	1,800	3,000
1100		305	610	915	1,525	2,545
1150		235	475	710	1,185	1,970
1200		185	370	555	925	1,545
1250		145	295	440	735	1,230
1300		115	235	350	585	970
1350		95	190	290	480	800
1400		75	150	225	380	630
1450		60	115	175	290	485
1500		40	85	125	205	345

## Materials Included

SA-182 F316 (note 1)

SA-182 F316H

SA-182 F317

### Notes:

(1) At temperatures over 1000°F, use only when the carbon content is

0.04% or higher