

CLASS 150 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	28	36	43
3/4"	37	47	56
1"	37	47	56
1-1/4"	37	47	56
1-1/2"	37	47	56
2"	75	94	113
2-1/2"	75	94	113
3"	110	116	128
3-1/2"	75	94	113
4"	86	107	129
5"	135	168	202
6"	154	193	231
8"	210	221	232
10"	262	327	393
12"	311	327	344
14"	393	492	590
16"	393	492	590
18"	661	696	835
20"	557	696	835
24"	794	993	1191

CLASS 300 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	25	31	37
3/4"	50	63	75
1"	57	72	86
1-1/4"	57	72	86
1-1/2"	103	128	154
2"	57	72	86
2-1/2"	103	128	154
3"	103	128	154
3-1/2"	103	128	154
4"	135	168	202
5"	154	193	231
6"	154	193	231
8"	249	312	374
10"	328	410	492
12"	464	580	696
14"	464	580	696
16"	662	827	993
18"	662	827	993
20"	662	827	993
24"	1155	1444	1732

CLASS 400 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	28	36	43
3/4"	50	63	75
1"	64	80	97
1-1/4"	64	80	97
1-1/2"	116	144	173
2"	64	80	97
2-1/2"	90	112	135
3"	116	144	173
3-1/2"	218	273	327
4"	218	273	327
5"	218	273	327
6"	218	273	327
8"	328	410	492
10"	464	580	696
12"	662	827	993
14"	662	827	993
16"	862	1078	1293
18"	862	1078	1293
20"	1155	1444	1732
24"	2061	2576	3091

CLASS 600 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	28	36	43
3/4"	50	63	75
1"	64	80	97
1-1/4"	64	80	97
1-1/2"	116	144	173
2"	64	80	97
2-1/2"	90	112	135
3"	116	144	173
3-1/2"	187	234	280
4"	187	234	280
5"	281	351	422
6"	281	351	422
8"	398	497	596
10"	567	709	851
12"	567	709	851
14"	739	924	1109
16"	990	1237	1485
18"	1392	1740	2088
20"	1392	1740	2088
24"	2202	2753	3303

CLASS 900 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	51	64	77
3/4"	51	64	77
1"	83	104	125
1-1/4"	145	182	218
1-1/2"	219	273	328
2"	145	182	218
2-1/2"	219	273	328
3"	145	182	218
4"	309	387	464
5"	441	552	662
6"	309	387	464
8"	575	719	862
10"	575	719	862
12"	575	719	862
14"	770	962	1155
16"	1083	1354	1624
18"	1713	2141	2569
20"	2104	2630	3156
24"	4255	5319	6383

CLASS 1500 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	51	64	77
3/4"	51	64	77
1"	83	104	125
1-1/4"	125	156	187
1-1/2"	187	234	281
2"	125	156	187
2-1/2"	187	234	281
3"	265	331	398
4"	378	473	567
5"	660	825	990
6"	493	616	739
8"	928	1160	1392
10"	1468	1835	2202
12"	1803	2254	2705
14"	1745	2182	2618
16"	2432	3039	3647
18"	3277	4097	4916
20"	4300	5375	6450
24"	6942	8677	10413

CLASS 2500 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
1/2"	51	64	77
3/4"	64	80	96
1"	104	130	156
1-1/4"	187	234	281
1-1/2"	265	331	398
2"	187	234	281
2-1/2"	265	331	398
3"	378	473	567
4"	660	825	990
5"	981	1227	1472
6"	1503	1879	2254
8"	1503	1879	2254
10"	2432	3039	3647
12"	4097	5121	6145

Gasket Style	SWG - GS - GSI
K Factor	0.15 to 0.17
Bolt Grade	B7 - B16

All the above data are for guidance only and cannot be used to support any warranty claims due to application failure.

Gasket Style	SWG - GS - GSI
K Factor	0.15 to 0.17
Bolt Grade	B7 -B16

CLASS 150 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	662	827	993
28"	662	827	993
30"	662	827	993
32"	1155	1444	1732
34"	1155	1444	1732
36"	1155	1444	1732
38"	1371	1444	1588
40"	1155	1444	1732
42"	1155	1444	1732
44"	1155	1444	1732
46"	1155	1444	1732
48"	1371	1444	1516
50"	2061	2576	3091
52"	2447	2576	2705
54"	2061	2576	3091
56"	2061	2576	3091
58"	2447	2576	3091
60"	2061	2576	3091

CLASS 300 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	1238	1547	1856
28"	1238	1547	1856
30"	1570	1963	2355
32"	1958	2447	2936
34"	1958	2447	2936
36"	2404	3006	3607
38"	880	1100	1320
40"	1238	1547	1856
42"	1624	2030	2437
44"	2355	2944	3533
46"	2936	3670	4404
48"	2936	3670	4404
50"	3156	3945	4734
52"	3156	3945	4734
54"	4581	5727	6872
56"	4581	5727	6872
58"	4581	5727	6872
60"	4581	5727	6872

CLASS 400 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	1570	1963	2355
28"	1958	2447	2936
30"	2404	3006	3607
32"	2404	3006	3607
34"	2404	3006	3607
36"	2404	3006	3607
38"	1570	1963	2355
40"	1958	2447	2936
42"	1958	2447	2936
44"	2404	3006	3607
46"	2404	3006	3607
48"	4581	5727	6872
50"	3490	4363	5236
52"	3490	4363	5236
54"	4863	6079	7295
56"	4863	6079	7295
58"	4863	6079	7295
60"	6555	8194	9832

CLASS 600 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	1713	2141	2569
28"	2104	2630	3156
30"	2104	2630	3156
32"	3054	3818	4581
34"	3054	3818	4581
36"	4255	5319	6383
38"	3054	3818	4581
40"	3054	3818	4581
42"	4255	5319	6383
44"	4255	5319	6383
46"	4255	5319	6383
48"	4916	6145	7374
50"	6450	8063	9676
52"	6450	8063	9676
54"	6450	8063	9676
56"	8273	10341	12410
58"	8273	10341	12410
60"	10413	13016	15619

CLASS 900 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	3277	4097	4916
28"	4300	5375	6450
30"	4300	5375	6450
32"	5515	6894	8273
34"	6942	8677	10413
36"	6942	8677	10413
38"	6942	8677	10413
40"	6942	8677	10413
42"	6942	8677	10413
44"	7829	9786	11743
46"	10490	13113	15735
48"	10490	13113	15735

Gasket Style	SWG - GS - GSI
K Factor	0.15 to 0.17
Bolt Grade	B7 -B16

CLASS 150 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	135	168	202
28"	135	168	202
30"	135	168	202
32"	135	168	202
34"	218	273	327
36"	218	273	327
38"	328	410	492
40"	328	410	492
42"	328	410	492
44"	328	410	492
46"	464	580	696
48"	464	580	696
50"	464	580	696
52"	464	580	696
54"	464	580	696
56"	464	580	696
58"	662	827	993
60"	662	827	993

CLASS 300 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	504	630	757
28"	504	630	757
30"	657	821	985
32"	880	1100	1320
34"	880	1100	1320
36"	1238	1547	1856
38"	1238	1547	1856
40"	1238	1547	1856
42"	1570	1963	2355
44"	1570	1963	2355
46"	1958	2447	2936
48"	1958	2447	2936
50"	1958	2447	2936
52"	1713	2141	2569
54"	1958	2447	2936
56"	3490	4363	5236
58"	3054	3818	4581
60"	3490	4363	5236

CLASS 400 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	657	821	985
28"	880	1100	1320
30"	880	1100	1320
32"	1238	1547	1856
34"	1238	1547	1856
36"	1570	1963	2355
38"	1570	1963	2355
40"	1958	2447	2936
42"	1958	2447	2936
44"	2404	3006	3607
46"	2404	3006	3607
48"	4581	5727	6872
50"	3490	4363	5236
52"	3490	4363	5236
54"	4863	6079	7295
56"	4863	6079	7295
58"	4863	6079	7295
60"	6555	8194	9832

CLASS 600 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	1083	1354	1624
28"	1374	1717	2061
30"	1713	2141	2569
32"	2104	2630	3156
34"	3054	3818	4581
36"	3054	3818	4581
38"	3054	3818	4581
40"	2356	2945	3534
42"	3283	4103	4924
44"	3283	4103	4924
46"	3283	4103	4924
48"	4425	5531	6637
50"	5805	7257	8708
52"	5805	7257	8708
54"	5805	7257	8708
56"	7446	9307	11169
58"	7446	9307	11169
60"	9371	11714	14057

CLASS 900 lb			
NPS	Minimum	Optimum	Maximum
	ft-lbs	ft-lbs	ft-lbs
26"	3647	4559	5471
28"	3277	4097	4916
30"	4300	5375	6450
32"	4300	5375	6450
34"	5515	6894	8273
36"	4300	5375	6450
38"	6942	8677	10413
40"	6942	8677	10413
42"	6942	8677	10413
44"	7829	9786	11743
46"	10490	13113	15735
48"	10490	13113	15735