

Bolt Torque Values - CANFLEX® Spiral Wound RW

ASME B16.20 CANFLEX Spiral Wound RW Gaskets on ASME B16.5 Flanges Recommended Bolt Torque (ft-lbs.)														
Flange Size (in.)	150 lb.		300 lb.		400 lb.		600 lb.		900 lb.		1500 lb.		2500 lb.	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
1/2	11	44	15	44	10	30	12	35	10	30	17	52	17	52
3/4	16	57	26	79	16	48	23	69	16	48	28	83	28	83
1	22	57	36	109	22	65	31	93	22	65	43	130	43	130
1-1/4	24	57	39	113	27	82	39	113	36	107	71	214	82	245
1-1/2	33	57	67	201	39	117	67	201	48	145	111	332	125	374
2	53	113	36	107	50	149	36	107	70	211	70	211	81	242
2-1/2	62	113	50	149	58	174	50	149	83	248	94	283	106	319
3	113	113	72	204	85	254	72	204	110	329	155	466	173	518
4	66	113	106	204	155	330	155	330	199	597	242	725	-	-
5	95	204	126	204	196	330	224	496	281	842	375	1124	-	-
6	136	204	121	204	178	330	203	496	229	687	304	911	-	-
8	204	204	200	330	284	496	319	737	352	1055	424	1272	-	-
10	183	330	209	496	314	737	349	1045	321	962	583	1750	-	-
12	248	330	319	737	476	1045	380	1045	359	1078	-	-	-	-
14	309	496	278	737	390	1045	429	1286	425	1276	-	-	-	-
16	312	496	416	1045	559	1429	610	1829	574	1721	-	-	-	-
18	505	737	499	1045	596	1429	845	2457	963	2889	-	-	-	-
20	445	737	549	1045	717	1897	776	2329	1013	3039	-	-	-	-
24	643	1045	857	1897	1000	3001	1072	3215	-	-	-	-	-	-

ASME B16.5 Flange Bolt Arrangement														
Flange Size (in.)	150 lb.		300 lb.		400 lb.		600 lb.		900 lb.		1500 lb.		2500 lb.	
	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)
1/2	4	1/2	4	1/2	4	1/2	4	1/2	4	3/4	4	3/4	4	3/4
3/4	4	1/2	4	5/8	4	5/8	4	5/8	4	3/4	4	3/4	4	3/4
1	4	1/2	4	5/8	4	5/8	4	5/8	4	7/8	4	7/8	4	7/8
1-1/4	4	1/2	4	5/8	4	5/8	4	5/8	4	7/8	4	7/8	4	1
1-1/2	4	1/2	4	3/4	4	3/4	4	3/4	4	1	4	1	4	1-1/8
2	4	5/8	8	5/8	8	5/8	8	5/8	8	7/8	8	7/8	8	1
2-1/2	4	5/8	8	3/4	8	3/4	8	3/4	8	1	8	1	8	1-1/8
3	4	5/8	8	3/4	8	3/4	8	3/4	8	7/8	8	1-1/8	8	1-1/4
4	8	5/8	8	3/4	8	7/8	8	7/8	8	1-1/8	8	1-1/4	8	1-1/2
5	8	3/4	8	3/4	8	7/8	8	1	8	1-1/4	8	1-1/2	8	1-3/4
6	8	3/4	12	3/4	12	7/8	12	1	12	1-1/8	12	1-3/8	8	2
8	8	3/4	12	7/8	12	1	12	1-1/8	12	1-3/8	12	1-5/8	12	2
10	12	7/8	16	1	16	1-1/8	16	1-1/4	16	1-3/8	12	1-7/8	12	2-1/2
12	12	7/8	16	1-1/8	16	1-1/4	20	1-1/4	20	1-3/8	16	2	12	2-3/4
14	12	1	20	1-1/8	20	1-1/4	20	1-3/8	20	1-1/2	16	2-1/4	-	-
16	16	1	20	1-1/4	20	1-3/8	20	1-1/2	20	1-5/8	16	2-1/2	-	-
18	16	1-1/8	24	1-1/4	24	1-3/8	20	1-5/8	20	1-7/8	16	2-3/4	-	-
20	20	1-1/8	24	1-1/4	24	1-1/2	24	1-5/8	20	2	16	3	-	-
24	20	1-1/4	24	1-1/2	24	1-3/4	24	1-7/8	20	2-1/2	16	3-1/2	-	-

NOTES: 1) 60 ksi design bolt stress is used for calculation. 2) Assuming new, non-coated and well lubricated bolts are used at room temperature; nut factor K=0.18. 3) Assuming maximum internal pressure follows ASME B16.5 Pressure-Temperature rating tables. 4) Assuming ASME PCC-1 bolting pattern is followed. 5) Flange imperfections, rotation, and deflection are ignored. 6) Assuming flange meets ASME B16.5 or B16.47 requirements. 7) Bolt torque values in above table are for reference only. User is responsible for applying appropriate bolt loads to properly seat the gasket. v3.0

Bolt Torque Values - CANFLEX® Spiral Wound RW

ASME B16.20 CANFLEX Spiral Wound RW Gaskets on ASME B16.47 Flanges - SERIES A Recommended Bolt Torque (ft.-lbs.)										
Flange Size (in.)	150 lb.		300 lb.		400 lb.		600 lb.		900 lb.	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
26	312	1045	766	2297	825	2474	884	2651	1814	5443
28	287	1045	820	2457	947	2840	1010	3029	2121	6362
30	307	1045	950	2850	1086	3257	1086	3257	2280	6839
32	434	1734	1089	3266	1161	3484	1306	3919	2642	7926
34	402	1609	1152	3455	1229	3686	1382	4146	3010	9030
36	504	1897	1138	3413	1138	3413	1625	4876	3196	9587
38	531	1897	650	1897	1012	3035	1515	4544	3443	10329
40	496	1897	927	2457	1143	3428	1400	4200	3041	9123
42	559	1897	972	2457	1198	3593	1872	5617	3178	9535
44	566	1897	1173	3117	1340	4020	1721	5163	3571	10713
46	591	1897	1495	3887	1257	3770	1795	5384	4006	12017
48	560	1897	1370	3887	1893	5680	2065	6196	4163	12488
50	724	2896	1532	4595	1723	5169	2676	8028	-	-
52	752	3008	1590	4771	1789	5368	2430	7289	-	-
54	780	3117	2130	6390	2367	7100	2529	7588	-	-
56	741	2964	2206	6617	2145	6434	2836	8507	-	-
58	767	3067	2005	6014	2218	6654	2943	8830	-	-
60	731	2926	2071	6213	2541	7624	3755	11266	-	-

ASME B16.47 Flange Bolt Arrangement - SERIES A										
Flange Size (in.)	150 lb.		300 lb.		400 lb.		600 lb.		900 lb.	
	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)
26	24	1-1/4	28	1-5/8	28	1-3/4	28	1-7/8	20	2-3/4
28	28	1-1/4	28	1-5/8	28	1-7/8	28	2	20	3
30	28	1-1/4	28	1-3/4	28	2	28	2	20	3
32	28	1-1/2	28	1-7/8	28	2	28	2-1/4	20	3-1/4
34	32	1-1/2	28	1-7/8	28	2	28	2-1/4	20	3-1/2
36	32	1-1/2	32	2	32	2	28	2-1/2	20	3-1/2
38	32	1-1/2	32	1-1/2	32	1-3/4	28	2-1/4	20	3-1/2
40	36	1-1/2	32	1-5/8	32	1-7/8	32	2-1/4	24	3-1/2
42	36	1-1/2	32	1-5/8	32	1-7/8	28	2-1/2	24	3-1/2
44	40	1-1/2	32	1-3/4	32	2	32	2-1/2	24	3-3/4
46	40	1-1/2	28	1-7/8	36	2	32	2-1/2	24	4
48	44	1-1/2	32	1-7/8	28	2-1/4	32	2-3/4	24	4
50	44	1-3/4	32	2	32	2-1/4	28	3	-	-
52	44	1-3/4	32	2	32	2-1/4	32	3	-	-
54	44	1-3/4	28	2-1/4	28	2-1/2	32	3	-	-
56	48	1-3/4	28	2-1/4	32	2-1/2	32	3-1/4	-	-
58	48	1-3/4	32	2-1/4	32	2-1/2	32	3-1/4	-	-
60	52	1-3/4	32	2-1/4	32	2-3/4	28	3-1/2	-	-

NOTES: 1) 60 ksi design bolt stress is used for calculation. 2) Assuming new, non-coated and well lubricated bolts are used at room temperature; nut factor K=0.18. 3) Assuming maximum internal pressure follows ASME B16.5 Pressure-Temperature rating tables. 4) Assuming ASME PCC-1 bolting pattern is followed. 5) Flange imperfections, rotation, and deflection are ignored. 6) Assuming flange meets ASME B16.5 or B16.47 requirements. 7) Bolt torque values in above table are for reference only. User is responsible for applying appropriate bolt loads to properly seat the gasket. v3.0

Bolt Torque Values - CANFLEX® Spiral Wound RW

ASME B16.20 CANFLEX Spiral Wound RW Gaskets on ASME B16.47 Flanges - SERIES B Recommended Bolt Torque (ft.-lbs.)												
Flange Size (in.)	75 lb.		150 lb.		300 lb.		400 lb.		600 lb.		900 lb.	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
26	61	113	99	204	376	1045	389	1166	742	2226	1880	5641
28	70	113	96	204	359	1045	581	1744	744	2232	2214	6643
30	68	113	93	204	422	1266	633	1897	998	2994	2315	6945
32	66	113	91	204	551	1653	847	2457	1136	3408	2474	7422
34	65	113	170	330	519	1557	733	2199	1590	4771	2852	8557
36	122	204	163	330	669	2006	1021	3062	1439	4317	2253	6759
38	136	204	238	496	646	1938	-	-	-	-	-	-
40	130	204	269	496	610	1831	-	-	-	-	-	-
42	118	204	219	496	765	2294	-	-	-	-	-	-
44	241	330	250	496	719	2157	-	-	-	-	-	-
46	227	330	398	737	895	2686	-	-	-	-	-	-
48	193	330	334	737	1053	3158	-	-	-	-	-	-
50	223	330	359	737	793	2378	-	-	-	-	-	-
52	213	330	345	737	754	2263	-	-	-	-	-	-
54	221	330	294	737	1035	3106	-	-	-	-	-	-
56	349	496	248	737	1524	4571	-	-	-	-	-	-
58	328	496	307	1045	1216	3649	-	-	-	-	-	-
60	307	496	297	1045	1369	4107	-	-	-	-	-	-

ASME B16.47 Flange Bolt Arrangement - SERIES B												
Flange Size (in.)	75 lb.		150 lb.		300 lb.		400 lb.		600 lb.		900 lb.	
	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)
26	36	5/8	36	3/4	32	1-1/4	28	1-3/8	28	1-5/8	20	2-1/2
28	40	5/8	40	3/4	36	1-1/4	24	1-1/2	28	1-3/4	20	2 3/4
30	44	5/8	44	3/4	36	1-3/8	28	1-1/2	28	1-7/8	20	3
32	48	5/8	48	3/4	32	1-1/2	28	1-5/8	28	2	20	3
34	52	5/8	40	7/8	36	1-1/2	32	1-5/8	24	2-1/4	20	3-1/4
36	40	3/4	44	7/8	32	1-5/8	28	1-3/4	28	2-1/4	24	3
38	40	3/4	40	1	36	1-5/8	-	-	-	-	-	-
40	44	3/4	44	1	40	1-5/8	-	-	-	-	-	-
42	48	3/4	48	1	36	1-3/4	-	-	-	-	-	-
44	36	7/8	52	1	40	1-3/4	-	-	-	-	-	-
46	40	7/8	40	1-1/8	36	1-7/8	-	-	-	-	-	-
48	44	7/8	44	1-1/8	40	1-7/8	-	-	-	-	-	-
50	44	7/8	48	1-1/8	44	1-7/8	-	-	-	-	-	-
52	48	7/8	52	1-1/8	48	1-7/8	-	-	-	-	-	-
54	48	7/8	56	1-1/8	48	1-7/8	-	-	-	-	-	-
56	40	1	60	1-1/8	36	2-1/4	-	-	-	-	-	-
58	44	1	48	1-1/4	40	2-1/4	-	-	-	-	-	-
60	44	1	52	1-1/4	40	2-1/4	-	-	-	-	-	-

NOTES: 1) 60 ksi design bolt stress is used for calculation. 2) Assuming new, non-coated and well lubricated bolts are used at room temperature; nut factor K=0.18. 3) Assuming maximum internal pressure follows ASME B16.5 Pressure-Temperature rating tables. 4) Assuming ASME PCC-1 bolting pattern is followed. 5) Flange imperfections, rotation, and deflection are ignored. 6) Assuming flange meets ASME B16.5 or B16.47 requirements. 7) Bolt torque values in above table are for reference only. User is responsible for applying appropriate bolt loads to properly seat the gasket. v3.0

Bolt Torque Values - CANFLEX® Spiral Wound RWI (with Inner Ring)

ASME B16.20 CANFLEX Spiral Wound RWI Gaskets on ASME B16.5 Flanges Recommended Bolt Torque (ft-lbs.)														
Flange Size (in.)	150 lb.		300 lb.		400 lb.		600 lb.		900 lb.		1500 lb.		2500 lb.	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
1/2	11	57	15	57	10	41	12	46	10	41	17	70	17	70
3/4	16	57	26	106	16	64	23	92	16	64	28	110	28	110
1	22	57	36	113	22	87	31	113	22	87	43	174	43	174
1-1/4	24	57	39	113	27	110	39	113	36	143	71	286	82	327
1-1/2	33	57	67	204	39	156	67	204	48	194	111	443	125	498
2	53	113	36	113	50	199	36	113	70	282	70	282	81	322
2-1/2	62	113	50	198	58	232	50	198	83	330	94	378	106	425
3	113	113	72	204	85	330	72	204	110	330	155	622	173	691
4	66	113	106	204	155	330	155	330	199	737	242	967	290	1161
5	95	204	126	204	196	330	224	496	281	1045	375	1499	437	1749
6	136	204	121	204	178	330	203	496	229	737	304	1215	663	2651
8	204	204	200	330	284	496	319	737	352	1407	424	1696	522	2087
10	183	330	209	496	314	737	349	1045	321	1283	583	2333	778	3111
12	248	330	319	737	476	1045	380	1045	359	1429	653	2613	1198	4790
14	309	496	278	737	390	1045	429	1429	425	1701	746	2982	-	-
16	312	496	416	1045	559	1429	610	1897	574	2295	1157	4628	-	-
18	505	737	499	1045	596	1429	845	2457	963	3852	1765	7062	-	-
20	445	737	549	1045	717	1897	776	2457	1013	4053	2125	8499	-	-
24	643	1045	857	1897	1000	3117	1072	3887	1517	6067	3286	13143	-	-

ASME B16.5 Flange Bolt Arrangement														
Flange Size (in.)	150 lb.		300 lb.		400 lb.		600 lb.		900 lb.		1500 lb.		2500 lb.	
	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)
1/2	4	1/2	4	1/2	4	1/2	4	1/2	4	3/4	4	3/4	4	3/4
3/4	4	1/2	4	5/8	4	5/8	4	5/8	4	3/4	4	3/4	4	3/4
1	4	1/2	4	5/8	4	5/8	4	5/8	4	7/8	4	7/8	4	7/8
1-1/4	4	1/2	4	5/8	4	5/8	4	5/8	4	7/8	4	7/8	4	1
1-1/2	4	1/2	4	3/4	4	3/4	4	3/4	4	1	4	1	4	1-1/8
2	4	5/8	8	5/8	8	5/8	8	5/8	8	7/8	8	7/8	8	1
2-1/2	4	5/8	8	3/4	8	3/4	8	3/4	8	1	8	1	8	1-1/8
3	4	5/8	8	3/4	8	3/4	8	3/4	8	7/8	8	1-1/8	8	1-1/4
4	8	5/8	8	3/4	8	7/8	8	7/8	8	1-1/8	8	1-1/4	8	1-1/2
5	8	3/4	8	3/4	8	7/8	8	1	8	1-1/4	8	1-1/2	8	1-3/4
6	8	3/4	12	3/4	12	7/8	12	1	12	1-1/8	12	1-3/8	8	2
8	8	3/4	12	7/8	12	1	12	1-1/8	12	1-3/8	12	1-5/8	12	2
10	12	7/8	16	1	16	1-1/8	16	1-1/4	16	1-3/8	12	1-7/8	12	2-1/2
12	12	7/8	16	1-1/8	16	1-1/4	20	1-1/4	20	1-3/8	16	2	12	2-3/4
14	12	1	20	1-1/8	20	1-1/4	20	1-3/8	20	1-1/2	16	2-1/4	-	-
16	16	1	20	1-1/4	20	1-3/8	20	1-1/2	20	1-5/8	16	2-1/2	-	-
18	16	1-1/8	24	1-1/4	24	1-3/8	20	1-5/8	20	1-7/8	16	2-3/4	-	-
20	20	1-1/8	24	1-1/4	24	1-1/2	24	1-5/8	20	2	16	3	-	-
24	20	1-1/4	24	1-1/2	24	1-3/4	24	1-7/8	20	2-1/2	16	3-1/2	-	-

NOTES: 1) 60 ksi design bolt stress is used for calculation. 2) Assuming new, non-coated and well lubricated bolts are used at room temperature; nut factor K=0.18. 3) Assuming maximum internal pressure follows ASME B16.5 Pressure-Temperature rating tables. 4) Assuming ASME PCC-1 bolting pattern is followed. 5) Flange imperfections, rotation, and deflection are ignored. 6) Assuming gasket meets ASME B16.20 spiral wound gasket requirements and flange meets ASME B16.5 or B16.47 requirements. 7) Bolt torque values in above table are for reference only. User is responsible for applying appropriate bolt loads to properly seat the gasket. v3.0

Bolt Torque Values - CANFLEX® Spiral Wound RWI (with Inner Ring)

ASME B16.20 CANFLEX Spiral Wound RWI Gaskets on ASME B16.47 Flanges - SERIES A Recommended Bolt Torque (ft.-lbs.)										
Flange Size (in.)	150 lb.		300 lb.		400 lb.		600 lb.		900 lb.	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
26	312	1045	766	2457	825	3117	884	3534	1814	7257
28	287	1045	820	2457	947	3787	1010	4039	2121	8482
30	307	1045	950	3117	1086	4342	1086	4342	2280	9118
32	434	1897	1089	3887	1161	4645	1306	5226	2642	10568
34	402	1897	1152	3887	1229	4773	1382	5529	3010	12040
36	504	1897	1138	4551	1138	4551	1625	6501	3196	12782
38	531	1897	650	1897	1012	3117	1515	6059	3443	13772
40	496	1897	927	2457	1143	3887	1400	5600	3041	12164
42	559	1897	972	2457	1198	3887	1872	7489	3178	12714
44	566	1897	1173	3117	1340	4773	1721	6885	3571	14284
46	591	1897	1495	3887	1257	4773	1795	7179	4006	16022
48	560	1897	1370	3887	1893	6931	2065	8261	4163	16650
50	724	3117	1532	4773	1723	6892	2676	10704	-	-
52	752	3117	1590	4773	1789	6931	2430	9719	-	-
54	780	3117	2130	6931	2367	9467	2529	10117	-	-
56	741	3117	2206	6931	2145	8578	2836	11343	-	-
58	767	3117	2005	6931	2218	8873	2943	11774	-	-
60	731	3117	2071	6931	2541	10165	3755	15021	-	-

ASME B16.47 Flange Bolt Arrangement - SERIES A										
Flange Size (in.)	150 lb.		300 lb.		400 lb.		600 lb.		900 lb.	
	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)
26	24	1-1/4	28	1-5/8	28	1-3/4	28	1-7/8	20	2-3/4
28	28	1-1/4	28	1-5/8	28	1-7/8	28	2	20	3
30	28	1-1/4	28	1-3/4	28	2	28	2	20	3
32	28	1-1/2	28	1-7/8	28	2	28	2-1/4	20	3-1/4
34	32	1-1/2	28	1-7/8	28	2	28	2-1/4	20	3-1/2
36	32	1-1/2	32	2	32	2	28	2-1/2	20	3-1/2
38	32	1-1/2	32	1-1/2	32	1-3/4	28	2-1/4	20	3-1/2
40	36	1-1/2	32	1-5/8	32	1-7/8	32	2-1/4	24	3-1/2
42	36	1-1/2	32	1-5/8	32	1-7/8	28	2-1/2	24	3-1/2
44	40	1-1/2	32	1-3/4	32	2	32	2-1/2	24	3-3/4
46	40	1-1/2	28	1-7/8	36	2	32	2-1/2	24	4
48	44	1-1/2	32	1-7/8	28	2-1/4	32	2-3/4	24	4
50	44	1-3/4	32	2	32	2-1/4	28	3	-	-
52	44	1-3/4	32	2	32	2-1/4	32	3	-	-
54	44	1-3/4	28	2-1/4	28	2-1/2	32	3	-	-
56	48	1-3/4	28	2-1/4	32	2-1/2	32	3-1/4	-	-
58	48	1-3/4	32	2-1/4	32	2-1/2	32	3-1/4	-	-
60	52	1-3/4	32	2-1/4	32	2-3/4	28	3-1/2	-	-

NOTES: 1) 60 ksi design bolt stress is used for calculation. 2) Assuming new, non-coated and well lubricated bolts are used at room temperature; nut factor K=0.18. 3) Assuming maximum internal pressure follows ASME B16.5 Pressure-Temperature rating tables. 4) Assuming ASME PCC-1 bolting pattern is followed. 5) Flange imperfections, rotation, and deflection are ignored. 6) Assuming gasket meets ASME B16.20 spiral wound gasket requirements and flange meets ASME B16.5 or B16.47 requirements. 7) Bolt torque values in above table are for reference only. User is responsible for applying appropriate bolt loads to properly seat the gasket. v3.0

Bolt Torque Values - CANFLEX® Spiral Wound RWI (with Inner Ring)

ASME B16.20 CANFLEX Spiral Wound RWI Gaskets on ASME B16.47 Flanges - SERIES B Recommended Bolt Torque (ft.-lbs.)												
Flange Size (in.)	75 lb.		150 lb.		300 lb.		400 lb.		600 lb.		900 lb.	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
26	61	113	99	204	376	1045	389	1429	742	2457	1880	7521
28	70	113	96	204	359	1045	581	1897	744	2977	2214	8857
30	68	113	93	204	422	1429	633	1897	998	3887	2315	9260
32	66	113	91	204	551	1897	847	2457	1136	4544	2474	9896
34	65	113	170	330	519	1897	733	2457	1590	6362	2852	11410
36	122	204	163	330	669	2457	1021	3117	1439	5756	2253	9012
38	136	204	238	496	646	2457	-	-	-	-	-	-
40	130	204	269	496	610	2441	-	-	-	-	-	-
42	118	204	219	496	765	3058	-	-	-	-	-	-
44	241	330	250	496	719	2876	-	-	-	-	-	-
46	227	330	398	737	895	3581	-	-	-	-	-	-
48	193	330	334	737	1053	3887	-	-	-	-	-	-
50	223	330	359	737	793	3171	-	-	-	-	-	-
52	213	330	345	737	754	3017	-	-	-	-	-	-
54	221	330	294	737	1035	3887	-	-	-	-	-	-
56	349	496	248	737	1524	6095	-	-	-	-	-	-
58	328	496	307	1045	1216	4866	-	-	-	-	-	-
60	307	496	297	1045	1369	5476	-	-	-	-	-	-

ASME B16.47 Flange Bolt Arrangement - SERIES B												
Flange Size (in.)	75 lb.		150 lb.		300 lb.		400 lb.		600 lb.		900 lb.	
	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)	No. of Bolts	Bolt Size (in.)
26	36	5/8	36	3/4	32	1-1/4	28	1-3/8	28	1-5/8	20	2-1/2
28	40	5/8	40	3/4	36	1-1/4	24	1-1/2	28	1-3/4	20	2 3/4
30	44	5/8	44	3/4	36	1-3/8	28	1-1/2	28	1-7/8	20	3
32	48	5/8	48	3/4	32	1-1/2	28	1-5/8	28	2	20	3
34	52	5/8	40	7/8	36	1-1/2	32	1-5/8	24	2-1/4	20	3-1/4
36	40	3/4	44	7/8	32	1-5/8	28	1-3/4	28	2-1/4	24	3
38	40	3/4	40	1	36	1-5/8	-	-	-	-	-	-
40	44	3/4	44	1	40	1-5/8	-	-	-	-	-	-
42	48	3/4	48	1	36	1-3/4	-	-	-	-	-	-
44	36	7/8	52	1	40	1-3/4	-	-	-	-	-	-
46	40	7/8	40	1-1/8	36	1-7/8	-	-	-	-	-	-
48	44	7/8	44	1-1/8	40	1-7/8	-	-	-	-	-	-
50	44	7/8	48	1-1/8	44	1-7/8	-	-	-	-	-	-
52	48	7/8	52	1-1/8	48	1-7/8	-	-	-	-	-	-
54	48	7/8	56	1-1/8	48	1-7/8	-	-	-	-	-	-
56	40	1	60	1-1/8	36	2-1/4	-	-	-	-	-	-
58	44	1	48	1-1/4	40	2-1/4	-	-	-	-	-	-
60	44	1	52	1-1/4	40	2-1/4	-	-	-	-	-	-

NOTES: 1) 60 ksi design bolt stress is used for calculation. 2) Assuming new, non-coated and well lubricated bolts are used at room temperature; nut factor K=0.18. 3) Assuming maximum internal pressure follows ASME B16.5 Pressure-Temperature rating tables. 4) Assuming ASME PCC-1 bolting pattern is followed. 5) Flange imperfections, rotation, and deflection are ignored. 6) Assuming gasket meets ASME B16.20 spiral wound gasket requirements and flange meets ASME B16.5 or B16.47 requirements. 7) Bolt torque values in above table are for reference only. User is responsible for applying appropriate bolt loads to properly seat the gasket. v3.0