

American National Standard Flange SPECIFICATIONS				Torque Chart for ASTM A193 Grade B7 Studs In Ft./Lbs At 60% Of Yield Add .04 to the u to = K factor					
900 lb									
PIPE SIZE	BOLT DIA.	# OF BOLTS	HEAVY HEX A/F	Moly Lube u=0.085 K=.0125	Nickel Lube u=0.110 K=.150	Copper Lube u=0.100 K=.140	Machine Oil u=0.160 K=.200	Dry Torque u=0.400 K=.440	Tool Model
1/2"	3/4"	4	1-1/4"	165	197	184	263	579	Versa-1
3/4"	3/4"	4	1-1/4"	165	197	184	263	579	Versa-1
1"	7/8"	4	1-7/16"	265	318	297	424	933	Versa-1
1-1/4"	7/8"	4	1-7/16"	265	318	297	424	933	Versa-1
1-1/2"	1"	4	1-5/8"	397	477	445	636	1399	Versa-1
2"	7/8"	8	1-7/16"	265	318	297	424	933	Versa-1
2-1/2"	1"	8	1-5/8"	397	477	445	636	1399	Versa-1
3"	7/8"	8	1-7/16"	265	318	297	424	933	Versa-1
3-1/2"	N/A	N/A	N/A						
4"	1-1/8"	8	1-13/16"	583	700	653	933	2053	Stealth-2
5"	1-1/4"	8	2"	820	984	918	1311	2885	Stealth-2
6"	1-1/8"	12	1-13/16"	583	700	653	933	2053	Stealth-2
8"	1-3/8"	12	2-3/16"	1112	1335	1246	1780	3916	Stealth-4
10"	1-3/8"	16	2-3/16"	1112	1335	1246	1780	3916	Stealth-4
12"	1-3/8"	20	2-3/16"	1112	1335	1246	1780	3916	Stealth-4
14"	1-1/2"	20	2-3/8"	1468	1761	1644	2348	5167	Stealth-4
16"	1-5/8"	20	2-9/16"	1892	2270	2119	3027	6658	Stealth-4
18"	1-7/8"	20	2-15/16"	2939	3563	3325	4750	10451	Stealth-8
20"	2"	20	3-1/8"	3635	4362	4071	5815	12794	Stealth-8
24"	2-1/2"	20	3-7/8"	6590	7909	7381	10545	23198	Stealth-14
26"	2-3/4"	20	4-1/4"	8854	10624	9916	14166	31165	Stealth-22
28"	3"	20	4-5/8"	11584	13900	12974	18534	40774	Stealth-36
30"	3"	20	4-5/8"	11584	13900	12974	18534	40774	Stealth-36
32"	3-1/4"	20	5"	14823	17788	16602	23718	52179	Stealth-36
34"	3-1/2"	20	5-3/8"	18617	22341	20851	29788	65533	Stealth-36
36"	3-1/2"	20	5-3/8"	18617	22341	20851	29788	65533	Stealth-36
38"	3-1/2"	32	5-3/8"	18617	22341	20851	29788	65533	Stealth-36

40"	3-1/2"	36	5-3/8"	18617	22341	20851	29788	65533	Stealth-36
42"	3-1/2"	36	5-3/8"	18617	22341	20851	29788	65533	Stealth-36
44"	3-3/4"	40	5-3/4"	23009	27610	25770	36814	80990	
46"	4"	40	6-1/8"	28041	33649	31406	44688	98705	
48"	4"	44	6-1/8"	28041	33649	31406	44866	98705	
50"	N/A	N/A	N/A						
52"	N/A	N/A	N/A						
54"	N/A	N/A	N/A						
56"	N/A	N/A	N/A						
58"	N/A	N/A	N/A						
60"	N/A	N/A	N/A						

This spread sheet is to be used as a guide. all results should be analyzed against actual field results to establish their validity.