

American National Standard Flange SPECIFICATIONS				Torque Chart for ASTM A193 Grade B7 Studs In Ft./Lbs At 70% Of Yield Add .04 to the u to = K factor					
900 lb				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
PIPE SIZE	BOLT DIA.	# OF BOLTS	HEAVY HEX A/F						
1/2"	3/4"	4	1-1/4"	192	230	215	307	676	Versa-1
3/4"	3/4"	4	1-1/4"	192	230	215	307	676	Versa-1
1"	7/8"	4	1-7/16"	309	371	346	495	1088	Veersa-1
1-1/4"	7/8"	4	1-7/16"	309	371	346	495	1088	Versa-1
1-1/2"	1"	4	1-5/8"	464	556	519	742	1632	Versa-1
2"	7/8"	8	1-7/16"	309	371	346	495	1088	Versa-1
2-1/2"	1"	8	1-5/8"	464	556	519	742	1632	Versa-1
3"	7/8"	8	1-7/16"	309	371	346	495	1088	Versa-1
3-1/2"	N/A	N/A	N/A						
4"	1-1/8"	8	1-13/16"	680	817	762	1089	2395	Stealth-2
5"	1-1/4"	8	2"	956	1148	1071	1530	3366	Stealth-2
6"	1-1/8"	12	1-13/16"	680	817	762	1089	2395	Stealth-2
8"	1-3/8"	12	2-3/16"	1298	1557	1454	2077	4569	Stealth-4
10"	1-3/8"	16	2-3/16"	1298	1557	1454	2077	4569	Stealth-4
12"	1-3/8"	20	2-3/16"	1298	1557	1454	2077	4569	Stealth-4
14"	1-1/2"	20	2-3/8"	1712	2055	1918	2740	6028	Stealth-4
16"	1-5/8"	20	2-9/16"	2207	2648	2472	3531	7768	Stealth-4
18"	1-7/8"	20	2-15/16"	3464	4157	3879	5542	12193	Stealth-8
20"	2"	20	3-1/8"	4240	5088	4749	6785	14926	Stealth-8
24"	2-1/2"	20	3-7/8"	7689	9227	8612	12302	27065	Stealth-14
26"	2-3/4"	20	4-1/4"	10329	12395	11569	16527	36359	Stealth-22
28"	3"	20	4-5/8"	13514	16217	15136	21623	45570	Stealth-36
30"	3"	20	4-5/8"	13514	16217	15136	21623	45570	Stealth-36
32"	3-1/4"	20	5"	17294	20753	19369	27670	60875	Stealth-36
34"	3-1/2"	20	5-3/8"	21720	26064	24327	34752	76455	Stealth-36
36"	3-1/2"	20	5-3/8"	21720	26064	24327	34752	76455	Stealth-36
38"	3-1/2"	32	5-3/8"	21720	26064	24327	34752	76455	Stealth-36

40"	3-1/2"	36	5-3/8"	21720	26064	24327	34752	76455	Stealth-36
42"	3-1/2"	36	5-3/8"	21720	26064	24327	34752	76455	Stealth-36
44"	3-3/4"	40	5-3/4"	26843	32212	30065	42949	94489	
46"	4"	40	6-1/8"	31715	39258	36640	52344	115156	
48"	4"	44	6-1/8"	31715	39258	36640	52344	115156	
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.