

American National Standard Flange SPECIFICATIONS				Torque Chart for ASTM A193 Grade B7 Studs In Ft./Lbs At <b>60% Of Yield</b> Add .04 to the u to = K factor					
2500 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
1/2"	3/4"	4	1-1/4"	165	197	184	263	579	Versa-1
<b>3/4"</b>	<b>3/4"</b>	<b>4</b>	<b>1-1/4"</b>	<b>165</b>	<b>197</b>	<b>184</b>	<b>263</b>	<b>579</b>	<b>Versa-1</b>
1"	7/8"	4	1-7/16"	265	318	297	424	933	Versa-1
<b>1-1/4"</b>	<b>1"</b>	<b>4</b>	<b>1-5/8"</b>	<b>397</b>	<b>477</b>	<b>445</b>	<b>636</b>	<b>1399</b>	<b>Versa-1</b>
1-1/2"	1-1/8"	4	1-13/16"	583	700	653	933	2053	Stealth-2
<b>2"</b>	<b>1"</b>	<b>8</b>	<b>1-5/8"</b>	<b>397</b>	<b>477</b>	<b>445</b>	<b>636</b>	<b>1399</b>	<b>Versa-1</b>
2-1/2"	1-1/8"	8	1-13/16"	583	700	653	933	2053	Stealth-2
<b>3"</b>	<b>1-1/4"</b>	<b>8</b>	<b>2"</b>	<b>820</b>	<b>984</b>	<b>918</b>	<b>1311</b>	<b>2885</b>	<b>Stealth-2</b>
N/A	N/A	N/A	N/A						
<b>4"</b>	<b>1-1/2"</b>	<b>8</b>	<b>2-3/8"</b>	<b>1468</b>	<b>1761</b>	<b>1644</b>	<b>2348</b>	<b>5167</b>	<b>Stealth-4</b>
5"	1-3/4"	8	2-3/4"	2390	2868	2677	3824	8413	Stealth-4
<b>6"</b>	<b>2"</b>	<b>8</b>	<b>3-1/8"</b>	<b>3635</b>	<b>4362</b>	<b>4071</b>	<b>5815</b>	<b>12794</b>	<b>Stealth-8</b>
8"	2"	12	3-1/8"	3635	4362	4071	5815	12794	Stealth-8
<b>10"</b>	<b>2-1/2"</b>	<b>12</b>	<b>3-7/8"</b>	<b>6590</b>	<b>7909</b>	<b>7381</b>	<b>10545</b>	<b>23198</b>	<b>Stealth-14</b>
12"	2-3/4"	12	4-1/4"	8854	10624	9916	14166	31165	Stealth-22
<b>14"</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>						
16"	N/A	N/A	N/A						
<b>18"</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>						
20"	N/A	N/A	N/A						
<b>24"</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>						

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