

Recommended Torque Values

For hardware consisting of a hex head bolt, hex nut and spring lock washer.												
Silicon Bronze Hardware				Aluminum Hardware			Galvanized Steel Hardware			Stainless Steel Hardware		
Dia.	in-lb	ft-lb	N-m	in-lb	ft-lb	N-m	in-lb	ft-lb	N-m	in-lb	ft-lb	N-m
5/16"	180	15	20	120	10	14	120	10	14	120	10	14
3/8"	240	20	27	180	15	20	180	15	20	180	15	20
1/2"	480	40	54	300	25	34	300	25	34	300	25	34
5/8"	660	55	75	480	40	54	480	40	54	480	40	54
3/4"	1044	87	118	648	54	73	648	54	73	648	54	73

For hardware consisting of a hex head bolt, hex nut and a 5500 lbf Belleville washer as supplied by SEFCOR.						
All Stainless Steel Hardware				Stainless Steel Hardware with Bronze Nut		
Dia.	in-lb	ft-lb	N-m	in-lb	ft-lb	N-m
1/2"	540	45	61	660	55	75

The values assume the following in addition to the information listed in the chart:

Silicon bronze hardware is not lubricated.

Aluminum nuts are wax lubricated and used with non-lubricated bolts.

Galvanized steel hardware is not lubricated.

Stainless steel nuts are wax lubricated and used with non-lubricated bolts.

No additional lubrication is used during installation.