

## SAE FLAT WASHERS



SAE LOW CARBON STEEL WASHERS										
Bolt Size	Outside Diameter			Inside Diameter			Thickness			Approximate Number per 50 Lbs.
	Nominal	Max	Min	Nominal	Max	Min	Gauge (Standard)	Max	Min	
4	5/16	0.320	0.307	1/8	0.133	0.120	(1/32)	0.040	0.025	83,300
6	3/8	0.390	0.370	5/32	0.164	0.151	18 (3/64)	0.065	0.036	39,500
8	7/16	0.453	0.433	3/16	0.196	0.183	18 (3/64)	0.065	0.036	29,500
10	1/2	0.515	0.495	7/32	0.227	0.214	18 (3/64)	0.065	0.036	22,750
12	9/16	0.577	0.557	1/4	0.265	0.245	16 (1/16)	0.080	0.051	14,700
1/4	5/8	0.640	0.620	9/32	0.296	0.276	16 (1/16)	0.080	0.051	11,100
5/16	11/16	0.703	0.681	11/32	0.359	0.339	16 (1/16)	0.080	0.051	9,750
3/8	13/16	0.827	0.805	13/32	0.419	0.401	16 (1/16)	0.080	0.051	7,000
7/16	59/64	0.937	0.915	15/32	0.484	0.464	16 (1/16)	0.080	0.051	5,500
1/2	1-1/16	1.092	1.055	17/32	0.546	0.526	13 (3/32)	0.121	0.074	2,800
9/16	1-3/16	1.186	1.149	19/32	0.609	0.589	13 (3/32)	0.121	0.074	2,250
5/8	1-5/16	1.342	1.305	21/32	0.686	0.649	13 (3/32)	0.121	0.074	1,850
3/4	1-1/2	1.499	1.462	13/16	0.842	0.805	10 (9/64)	0.160	0.108	1,050
7/8	1-3/4	1.780	1.743	15/16	0.968	0.931	10 (9/64)	0.160	0.108	775
1	2	2.030	1.993	1-1/16	1.092	1.055	10 (9/64)	0.160	0.108	585
1-1/8	2-1/4	2.280	2.243	1-1/4	1.280	1.243	10 (9/64)	0.160	0.108	460
1-1/4	2-1/2	2.530	2.493	1-3/8	1.405	1.368	9 (5/32)	0.192	0.136	335
1-3/8	2-3/4	2.780	2.743	1-1/2	1.530	1.493	9 (5/32)	0.213	0.136	275
1-1/2	3	3.030	2.993	1-5/8	1.655	1.618	9 (5/32)	0.213	0.136	230

