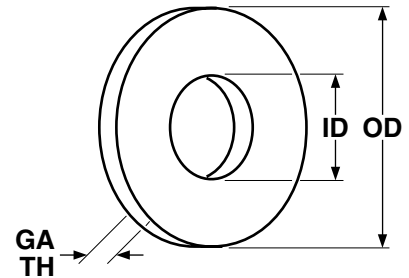




Washers

SAE Flat Washers



Bolt Size	Outside Diameter			Inside Diameter			Thickness		
	Nominal	Max	Min	Nominal	Max	Min	American Standard (Gauge)	Max	Min
4	5/16	0.320	0.307	1/8	0.133	0.120	(1/32)	.040	.025
6	3/8	0.390	0.370	5/32	0.164	0.151	18 (3/64)	.065	.036
8	7/16	0.453	0.433	3/16	0.196	0.183	18 (3/64)	.065	.036
10	1/2	0.515	0.495	7/32	0.227	0.214	18 (3/64)	.065	.036
3/16	9/16	0.577	0.557	1/4	0.265	0.245	18 (3/64)	.065	.036
12	9/16	0.577	0.557	1/4	0.265	0.245	16 (1/16)	.080	.051
1/4	5/8	0.640	0.620	9/32	0.296	0.276	16 (1/16)	.080	.051
5/16	11/16	0.703	0.681	11/32	0.359	0.339	16 (1/16)	.080	.051
3/8	13/16	0.827	0.805	13/32	0.419	0.401	16 (1/16)	.080	.051
7/16	59/64	0.937	0.915	15/32	0.484	0.464	16 (1/16)	.080	.051
1/2	1-1/16	1.092	1.055	17/32	0.546	0.526	13 (3/32)	.121	.074
9/16	1-3/16	1.186	1.149	19/32	0.609	0.589	13 (3/32)	.121	.074
5/8	1-5/16	1.342	1.305	21/32	0.686	0.649	13 (3/32)	.121	.074
3/4	1-1/2	1.499	1.462	13/16	0.842	0.805	10 (9/64)	.160	.108
7/8	1-3/4	1.780	1.743	15/16	0.968	0.931	10 (9/64)	.160	.108
1	2	2.030	1.993	1-1/16	1.092	1.055	10 (9/64)	.160	.108
1-1/8	2-1/4	2.280	2.243	1-3/16	1.280	1.243	10 (9/64)	.160	.108
1-1/4	2-1/2	2.530	2.493	1-5/16	1.405	1.368	9 (5/32)	.192	.136
1-3/8	2-3/4	2.780	2.743	1-7/16	1.530	1.493	9 (5/32)	.213	.136
1-1/2	3	3.030	2.993	1-9/16	1.655	1.618	9 (5/32)	.213	.153

ANSI B18.22.1

The value-added source for quality bolts, screws, nuts, washers and other industrial fasteners.

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