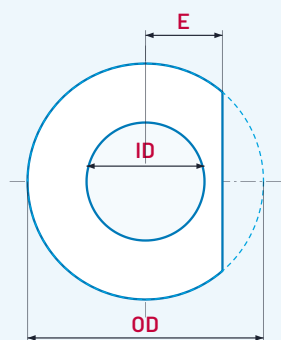


Hardened steel washers, inch

ASTM F436 · circular, clipped and extra thick



LEGEND

- ID** Inside diameter
- OD** Outside diameter
- T** Thickness
- E** Clip edge: min. distance from the washer centre

DIMENSIONS IN INCHES

BOLT SIZE	ID	OD	T CIRCULAR / CLIPPED		T EXTRA THICK		E CLIPPED
	MIN.	NOM.	MIN.	MAX.	MIN.	MAX.	MIN.
1/4"	0.281	0.625	0.051	0.080	–	–	0.219
5/16"	0.344	0.688	0.051	0.080	–	–	0.281
3/8"	0.406	0.813	0.051	0.080	–	–	0.344
7/16"	0.469	0.922	0.051	0.080	–	–	0.406
1/2"	0.531	1.063	0.097	0.177	0.305	0.375	0.438
9/16"	0.625	1.188	0.110	0.177	0.305	0.375	0.500
5/8"	0.688	1.313	0.122	0.177	0.305	0.375	0.563
3/4"	0.813	1.468	0.122	0.177	0.305	0.375	0.656
7/8"	0.938	1.750	0.136	0.177	0.305	0.375	0.781
1"	1.063	2.000	0.136	0.177	0.305	0.375	0.875
1-1/8"	1.188	2.250	0.136	0.177	0.305	0.375	1.000
1-1/4"	1.375	2.500	0.136	0.177	0.305	0.375	1.094
1-3/8"	1.500	2.750	0.136	0.177	0.305	0.375	1.219
1-1/2"	1.625	3.000	0.136	0.177	0.305	0.375	1.313
1-3/4"	1.875	3.375	0.178	0.280	0.305	0.375	1.531
2"	2.125	3.750	0.178	0.280	0.305	0.375	1.750
2-1/4"	2.375	4.000	0.240	0.340	0.305	0.375	2.000
2-1/2"	2.625	4.500	0.240	0.340	0.313	0.375	2.188
2-3/4"	2.875	5.000	0.240	0.340	0.313	0.375	2.406
3"	3.125	5.500	0.240	0.340	0.313	0.375	2.625
3-1/4"	3.375	6.000	0.240	0.340	0.313	0.375	2.875
3-1/2"	3.625	6.500	0.240	0.340	0.313	0.375	3.063
3-3/4"	3.875	7.000	0.240	0.340	0.313	0.375	3.313
4"	4.125	7.500	0.240	0.340	0.313	0.375	3.500

Tolerances on ID and OD to ASTM F436. – : not listed, or not confirmed by two independent sources.

Configure at hbsfasteners.nl/products/washers.