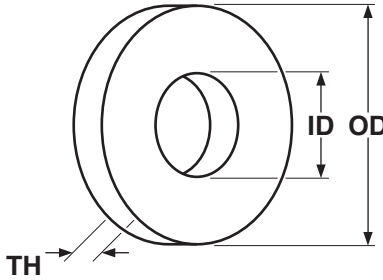


WASHERS

TYPE-B FLAT Wide Series, Steel & Stainless

ECOM
Fasteners



TYPE-B PLAIN WASHERS—WIDE SERIES						ASME B18.21.1- -2009	
Washer Size	Inside Diameter		Outside Diameter		Thickness		
	Max	Min	Max	Min	Max	Min	
0	0.068	0.063	0.250	0.245	0.028	0.022	
1	0.084	0.079	0.281	0.276	0.036	0.028	
2	0.094	0.089	0.344	0.339	0.036	0.028	
3	0.117	0.104	0.414	0.401	0.045	0.036	
4	0.133	0.120	0.446	0.433	0.045	0.036	
5	0.149	0.136	0.508	0.495	0.045	0.036	
6	0.164	0.151	0.570	0.557	0.045	0.036	
8	0.196	0.183	0.640	0.620	0.071	0.056	
10	0.211	0.198	0.749	0.727	0.071	0.056	
12	0.242	0.229	0.890	0.868	0.071	0.056	
1/4	0.296	0.276	1.015	0.993	0.071	0.056	
5/16	0.359	0.339	1.140	1.118	0.071	0.056	
3/8	0.421	0.401	1.280	1.243	0.112	0.090	
7/16	0.484	0.464	1.499	1.462	0.112	0.090	
1/2	0.546	0.526	1.780	1.743	0.112	0.090	
9/16	0.609	0.589	2.030	1.997	0.112	0.090	
5/8	0.686	0.649	2.280	2.243	0.174	0.146	
3/4	0.842	0.805	2.530	2.493	0.174	0.146	
7/8	0.968	0.931	2.780	2.743	0.174	0.146	

Description	A thin, flat, circular metal part with a centrally located hole. The tolerances of the thickness and outside diameter of Type-B washers are tighter than for USS and SAE flat washers. Wide Series are thicker and have greater outside diameter than Type-B Reguar Series washers.	
Applications/ Advantages	For use with low-carbon steel materials. Type-B washers distribute load over larger areas than the comparable USS or SAE washers of the same nominal size.	For use with stainless materials. Type-B washers distribute load over larger areas than the comparable USS or SAE washers of the same nominal size.
Material	Steel Low Carbon steel	Stainless Class 300 stainless