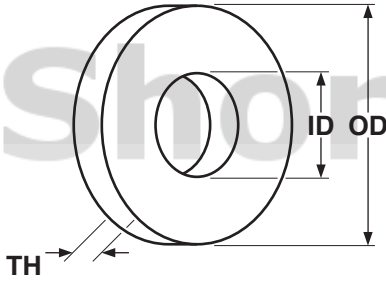


# WASHERS

## TYPE-B FLAT Wide Series, Steel & Stainless



**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	2.280	2.243	0.174	0.146
7/8	0.968	0.931	2.780	2.743	0.174	0.146

<b>Description</b>	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.	
<b>Applications/ Advantages</b>	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.
<b>Material</b>	<b>Steel</b> Low Carbon steel	<b>Stainless</b> Class 300 stainless