



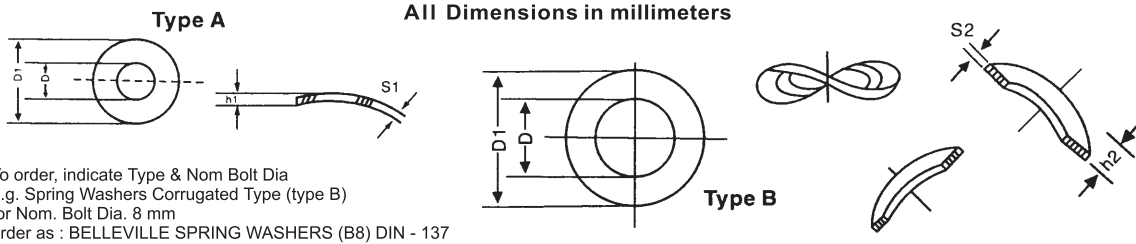
Shiv Sagar Industries

ISO 9001:2008



WAVE WASHERS (BELLEVILLE TYPE & CORRUGATED TYPE)

DIN - 137



Nominal Bolt Dia	TYPE A					TYPE B					Wt. (7.85Kg/dm ³) Kg/1000 Pieces		For Metric Screws		
	D	D1	h1	S1		D	D2	h2	S2		TYPE A	TYPE B			
	H14	J16	Min	Tol.	Tol.	H14	J16	Min	Tol.	Tol.					
2	2.2	4.5	0.6	± 0.1	0.3	± 0.03							0.028		2
3	3.2	6.0	0.9		0.4		3.2	8	1.1						0.063
4	4.3	8.0	1.2	± 0.2	0.5	± 0.05	4.3	9	1.2	± 0.2	0.5	± 0.05	0.140	0.193	4
5	5.3	10.0	1.4				5.3	11	1.4				0.222	0.286	5
6	6.4	11.0	1.6				6.4	12	1.5				0.247	0.318	6
8	8.4	15.0	2.4	± 0.3	0.8	± 0.06	8.4	17	2.0	± 0.3	0.8	± 0.06	0.476	1.08	8
10	10.5	18.0	2.8	± 0.4			10.5	21	2.4				± 0.4	1.0	± 0.07
12							13	24	2.9	± 0.4	1.2	± 0.07		3.01	12
16							17	30	3.6	± 0.5	1.5	± 0.08		5.65	16
20							21	36	4.4	± 0.7	1.6	± 0.1		8.43	20
24							25	44	4.8		1.8		14.5	24	
30							31	56	5.9	± 0.9	2.2	± 0.15		29.5	30
36							37	68	6.8	± 1.0	2.5	± 0.15		50.2	36
42							43	78	8.0	± 1.2	3.0	± 0.2		78.3	42
							50	92	9.2	+ 1.4	3.5		129	48	

WAVE WASHERS (FOR BALL BEARING USE)

Size No.	d1	D1	THK	H	
6201/6301	26.5	31.5	0.3	2.5	
6202	28.0	34.0	0.3	3.2	
6203/6302	33.0	38.5	0.4	3.5	
6204/6303	39.5	46.5	0.4	3.5	
6205/6304	41.0	51.0	0.4	4.0	
6206/6305	51.0	61.0	0.5	4.0	
6207/6306	61.0	71.0	0.5	4.5	
6208/6307	71.0	79.0	0.6	4.5	
6209/6308	79.0	89.0	0.6	5.0	
6210/6309	89.0	99.0	0.7	5.0	
6310	99.0	109.0	0.8	6.0	

Unit : mm

• Material = Carbon spring steel. Hardness HRC 40 to 50, Finish Blue natural
Note : 1. Free height H shows when 3 waves are the same height.