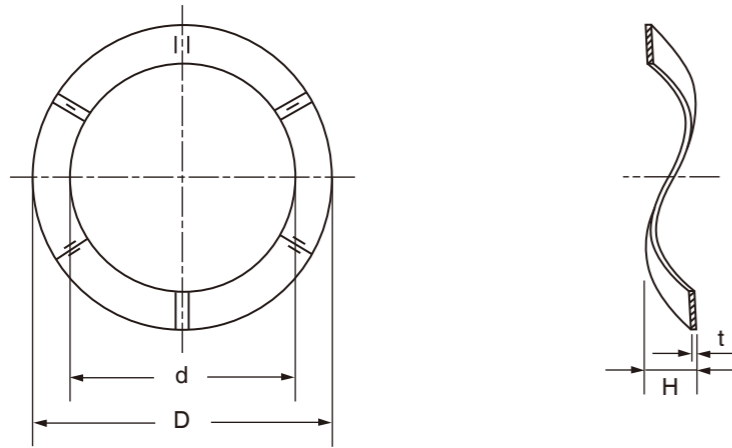
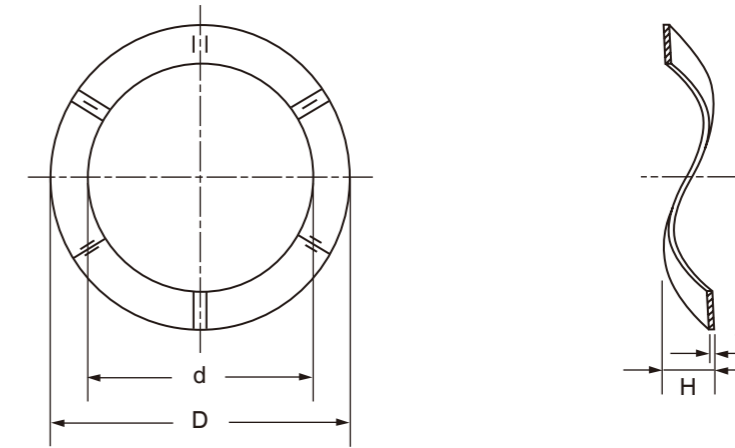


Wave Washer



Wave Washer for Bearing



Unit: mm

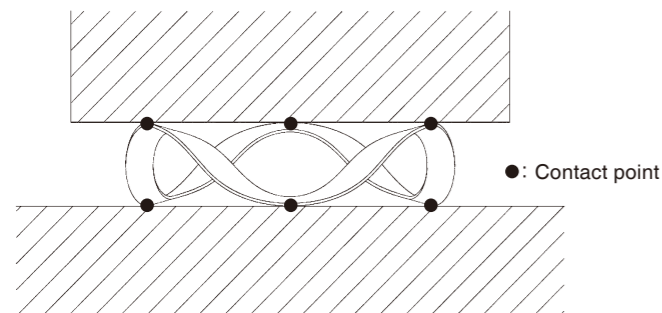
Size No.	d		D		H		t					
	Basic	Tol.	Basic	Tol.	Basic	Tol.	Basic	Tol.				
WW- 4	4.3	+0.3 -0.15	8	0 -0.5	1.5	+0.5 0	0.2	±0.02				
5	5.4		9		1.5		0.3					
6	6.4		11		1.5		0.3					
8	8.5		12.5		2		0.3					
10	10.5		14.5		2		0.3					
12	12.5		17		2.5		0.3					
14	14.5		20		2.5		0.3					
16	16.7		22.5		2.5		0.3					
18	18.7		26		3		0.3					
20	20.7		29.1		3		0.3					
23	23.5	+0.5 -0.3	31	0 -0.8	3.5	+0.7 0	0.3	±0.025				
26	26.4		34.2		3.5		0.3					
30	30.4		39.3		3.5		0.3					
32	33.9		46		4.5		0.3					
38	39		+0.7 -0.5		51		0 -1.2		5	+1 -0.5	0.3	±0.03
40	40.6				53.5				5		0.3	
46	47.5				61				5.5		0.4	
50	51.4				67.5				5.5		0.4	
53	54				69.8				6		0.45	
60	61.9				79				6.5		0.45	

Material = Carbon spring steel Hardness = 40 through 50HRC, Finish = Phosphate coating (ACP)

Notes

1. The value d is the diameter of inscribed circle. The value D is the diameter of circumscribed circle.
2. The value H is a dimension when three threads are flush with each other with parallel two planes compressed (see Fig. 1).
3. Our products with little marketability may not be in stock. When employing our products, consult with us for their availability.

Fig. 1



Unit: mm

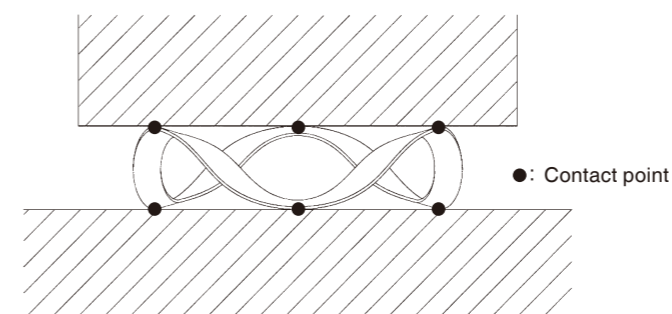
Size No.	Bearing outer diameter	d	D	H	t	Applicable bearing No.			
BWW- 624	13	8.8	12.8	1.5	0.15	695		624	633
625	16	12	15	2	0.15			625	634
626	19	12.7	18.1	2.5	0.2	698	607	626	635
608	22	14.5	21	2.4	0.2	6900	608	627	636
629	26	19.5	24.8	3.2	0.2		6000	629	637
6001	28	20.9	26.9	3	0.25	6902	6001		638
6200	30	22	28.5	4.1	0.25	6903		6200	639
6201	32	23.5	30.5	4	0.25		6002	6201	
6202	35	26.4	33.9	3.5	0.3		6003	6202	6300
6203	40	29.8	38.3	5	0.3			6203	
6302	42	30.1	40.6	4.5	0.3	6905	6004		6302
6303	47	33.7	45.5	5	0.3	6906	6005	6204	6303
6304	52	38.5	50	7.2	0.3			6205	6304
6305	62	47.2	60.2	6.5	0.4	6908	6007	6206	6305
6306	72	55	70.5	7	0.45	6910		6207	6306
6307	80	61.3	77.8	8.5	0.45	6911	6010	6208	6307
6308	90	69	88.5	7	0.6	6913	6011	6210	6308
6309	100	79.3	98.8	6.5	0.7	6914	6013	6211	6309
6310	110	88.9	108.9	8	0.8	6916	6014	6212	6310
6311	120	95.8	118.9	8.5	0.8	6917		6213	6311
6312	130	108.3	128.3	11	0.8	6919	6017	6215	6312
6313	140	112.4	138.4	11	0.8	6920	6018	6216	6313

Material = Carbon spring steel Hardness = 40 through 50HRC, Finish = Phosphate coating (ACP)

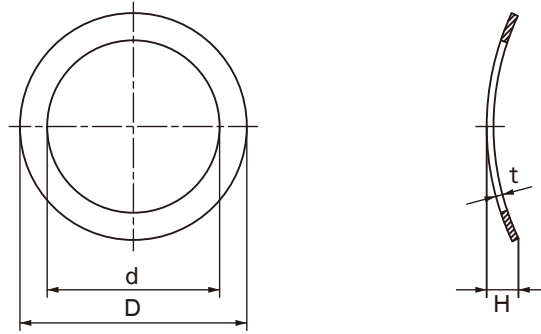
Notes

1. The value d is the diameter of inscribed circle. The value D is the diameter of circumscribed circle.
2. The value H is a dimension when three threads are flush with each other with parallel two planes compressed (see Fig. 1).
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Fig. 1



Curved Washer



Unit: mm

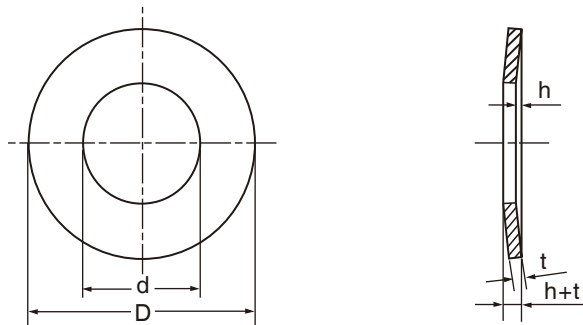
Size No.	d		D		H		t
	Basic	Tol.	Basic	Tol.	Basic	Tol.	
MB-4301	4.3	+0.2 0	6.8	-	1		0.15
4302	4.3	+0.3 0	8	±0.2	1.2	±0.2	0.3
5011	5	±0.2	7.9	+0.05 -0.15	1.2	±0.15	0.15
5301	5.3		10	±0.2	1.4	±0.2	0.3
6203	6.2		11		1.4		0.15
6301	6.3		11		1.5		0.4

Material = Carbon spring steel Hardness = 40 through 50HRC, Finish = Phosphate coating (ACP)

Notes

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Dish Spring



Unit: mm

Size No.	d		D		H (For heavy duty)				L (For light duty)			
	Basic	Tol.	Basic	Tol.	t		h (Approx.)	h+t (Approx.)	t		h (Approx.)	h+t (Approx.)
					Basic	Tol.			Basic	Tol.		
DB- 4	4.2	+0.3 -0.1	8	±0.3	0.4	±0.03	0.2	0.6	0.3	±0.025	0.25	0.55
5	5.2		10		0.5		0.75	0.4	0.3		0.7	
6	6.2		12.5		0.7		1	0.5	0.35		0.85	
7	7.2		14		0.8		1.1	0.5	0.4		0.9	
8	8.2	±0.4	16	±0.4	0.9	±0.05	0.35	1.25	0.6	±0.04	0.45	1.05
9	9.2		18		1		1.4	0.7	0.5		1.2	
10	10.2		20		1		1.45	0.8	0.55		1.35	
11	11.2		22.5		1.2		1.7	0.8	0.65		1.45	
12	12.2	+0.4 -0.1	25	±0.4	1.5	±0.06	0.55	2.05	0.9	±0.05	0.7	1.6
14	14.2		28		1.5		2.15	1	0.8		1.8	
16	16.3		31.5		1.75		2.45	1.2	0.9		2.1	
18	18.3		35.5		2		2.8	1.2	1		2.2	
20	20.4	+0.5 -0.2	40	±0.5	2	±0.07	0.9	2.9	1.5	±0.06	1.15	2.65
22	22.4		45		2.5		3.5	1.75	1.3		3.05	
25	25.4		50		3		4.1	2	1.4		3.4	
28	28.5		56		3		4.3	2	1.6		3.6	
30	31	+0.6 -0.4	63	±0.6	3.5	±0.09	1.4	4.9	2.5	±0.07	1.75	4.25
35	36		71		4		5.6	2.5	2		4.5	
40	41		80		5		6.7	3	2.3		5.3	
45	46		91		5		7	3.5	2.5		6	
50	51	±0.7	100	±0.7	6	±0.15	2.2	8.2	3.5	±0.09	2.8	6.3

Material = Carbon spring steel Hardness = 40 through 50HRC, Finish = Phosphate coating (ACP)

Notes

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