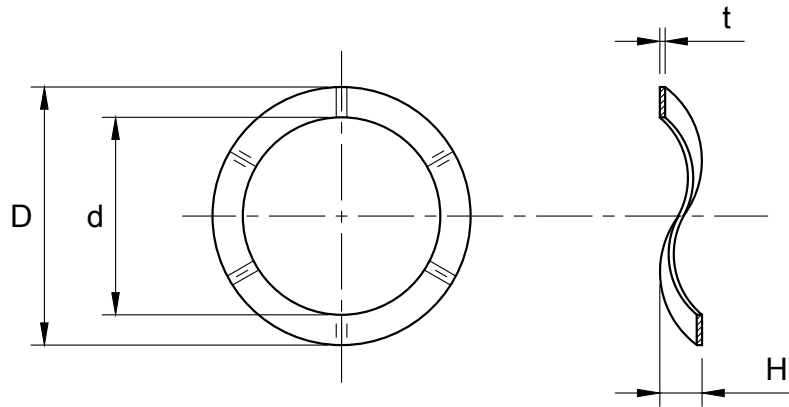


## Wave Washer (For general use)



Unit : mm

Size-No.		Wave Washer (For general use)					
		d (inner diameter)		D (outer diameter)		H	t
		Basic	Tol.	Basic	Tol.	(height)	(thickness)
WW- 02.5		2.7	±0.15	4.2	±0.15	0.6~1.0	0.3
03.5		3.5	+0.2/-0	6.7	+0/-0.2	1.5~2.0	0.2
04		4.3	+0.3/-0.15	8.0	+0/-0.5	1.5~2.0	0.2
04-01		4.3	+0.3/-0.15	8.0	+0/-0.5	1.5~2.0	0.5
04-02		4.3	+0.3/-0.15	8.0	+0/-0.5	1.5~2.0	0.3
04-03		4.3	+0.3/-0.15	8.0	+0/-0.5	1.5~2.0	0.4
04-04		4.0	+0.1/-0	6.0	+0/-0.3	1.5~2.0	0.25
04-05		4.3	+0.15/-0	6.2	+0/-0.15	0.8~1.0	0.15
04-05-01		4.3	+0.15/-0	6.2	+0/-0.15	0.85~1.05	0.2
04-06		4.3	+0.3/-0.15	8.0	+0/-0.15	1.4~1.9	0.15
04-07		4.2	+0.15/-0	7.5	+0/-0.15	1.0~1.4	0.15
05		5.4	+0.3/-0.15	9.0	+0/-0.5	1.5~2.0	0.3
05-01		5.7	±0.2	8.9	±0.2	1.5~1.8	0.3
05-02		5.5	+0.15/-0.05	10.0	+0/-0.4	0.7~0.9	0.25
05-03		5.5	+0.15/-0.05	10.0	+0/-0.4	1.5~1.8	0.15
05-04		5.5	±0.2	9.0	+0/-0.5	1.5~2.0	0.2
05-05		5.0	+0.25/-0	8.5	+0/-0.2	1.2~1.4	0.15
05-06		5.6	+0.2/-0	9.0	+0/-0.2	0.8~1.2	0.1
05-08		5.3	+0/-0.1	7.5	+0.05/-0.1	0.9~1.1	0.2
05-09		5.08	±0.127	7.8	±0.127	0.9~1.1	0.15
05-09-01		5.08	±0.127	7.8	±0.127	0.95~1.15	0.2
05-10		5.75	±0.2	12.6	±0.2	0.9~1.4	0.15
06		6.4	+0.3/-0.15	11.0	+0/-0.5	1.5~2.0	0.3
06-01		6.4	+0.3/-0.15	11.0	+0/-0.5	1.5~2.0	0.15
06-03		6.4	+0.3/-0.15	11.0	+0/-0.5	1.5~2.0	0.2
06-04		6.7	±0.1	12.8	+0.05/-0.15	2.0~2.5	0.4
06-05		6.5	+0/-0.1	8.5	+0.05/-0.1	0.9~1.1	0.2
06-06		6.4	±0.2	18.0	±0.2	1.0~1.3	0.3
06-07		6.1	±0.1	7.9	±0.1	0.9~1.2	0.2
07		7.2	+0.1/-0	11.0	+0/-0.3	1.5~2.0	0.2
07-01		7.2	+0.3/-0	11.0	±0.1	1.5~1.7	0.2
07-02		7.8	±0.05	10.2	+0.05/-0.1	1.1~1.3	0.2
07-03		7.2	±0.15	9.2	±0.1	1.1~1.4	0.2
08		8.5	+0.3/-0.15	12.5	+0/-0.5	2.0~2.5	0.3
08-01		8.5	+0.3/-0	12.8	+0/-0.5	1.5~2.0	0.1
08-02		8.5	+0.3/-0.15	12.7	+0.1/-0.3	1.5~2.0	0.2

Size-No.		Wave Washer (For general use)					
		d (inner diameter)		D (outer diameter)		H	t
		Basic	Tol.	Basic	Tol.	(height)	(thickness)
WW-	08-03	8.5	+0.3/-0.15	12.5	+0/-0.5	2.0~2.6	0.5
	08-04	8.0	±0.15	10.9	+0/-0.4	1.7~2.0	0.3
	08-05	8.1	+0.1/-0.05	13.0	±0.2	1.1~1.3	0.2
	08-06	8.2	+0.25/-0	16.8	+0/-0.4	1.4~1.8	0.2
	08-07	8.5	±0.15	12.0	±0.15	0.8~1.0	0.2
	08-08	8.89	+0/-0.3	12.5	+0.2/-0	0.79~0.99	0.2
	08-09	8.0	+0.2/-0	12.0	±0.1	2.0~2.2	0.2
	09	9.2	+0.1/-0	13.1	+0/-0.1	1.7~2.0	0.3
	09-01	9.3	±0.2	12.5	±0.2	1.8~2.2	0.2
	09-02	9.3	±0.2	12.5	±0.2	1.9~2.3	0.25
	09-03 SUS	9.0	+0.3/-0.1	13.2	+0/-0.2	1.8~2.2	0.6
	10	10.5	+0.3/-0.15	14.5	+0/-0.5	2.0~2.5	0.3
	10-01	10.5	+0.2/-0.1	19.6	±0.2	2.5~3.0	0.5
	10-02	10.2	+0.2/-0	18.0	+0/-0.2	2.0~2.3	0.3
	10-03	10.2	+0.3/-0	14.0	+0/-0.2	1.1~1.6	0.11
	10-04	10.2	+0.2/-0.1	14.0	+0/-0.1	1.2~1.6	0.15
	10-05	10.5	+0.3/-0.15	14.5	+0/-0.5	1.2~1.4	0.3
	10-06	10.16	±0.13	12.7	±0.13	2.0~2.3	0.2
	10-07	10.5	+0.3/-0.15	14.5	+0/-0.5	2.2~2.7	0.5
	10-08 SUS	10.5	±0.2	14.3	±0.2	1.5~2.1	0.25
	10-09	10.4	±0.2	18.0	±0.2	2.4~2.8	0.2
	10-10	10.5	+0.3/-0.15	16.0	+0/-0.5	2.5~3.0	0.4
	11-01	11.1	+0.1/-0	16.5	±0.1	1.4~1.6	0.3
	11-02	11.1	+0.1/-0	16.5	±0.1	1.1~1.5	0.2
	12	12.5	+0.3/-0.15	17.0	+0/-0.5	2.5~3.2	0.3
	12-01	12.2	+0.15/-0	20.0	±0.1	1.3~1.7	0.3
	12-02	12.5	+0.3/-0.15	17.0	+0/-0.5	2.5~3.2	0.3
	12-03	12.2	±0.1	16.0	+0/-0.2	1.2~1.4	0.2
	12-04 SUS	12.0	+0.3/-0	17.0	+0/-0.3	2.2~2.4	0.3
	12-05 SUS	12.4	±0.2	19.0	+0.3/-0.2	1.5~2.0	0.15
	12-06	12.2	±0.1	14.2	±0.1	2.1~2.5	0.2
	12-07	12.5	±0.1	18.5	±0.1	2.8~3.4	0.5
	12-08	12.1	+0.3/-0	14.9	+0.3/-0	1.8~2.4	0.3
	13	13.5	+0.2/-0	20.3	±0.1	2.2~2.7	0.3
	13-01	13.5	+0.2/-0	21.0	±0.1	2.4~2.9	0.5
	13-02	13.0	+0.3/-0	18.0	+0/-0.2	1.5~2.5	0.15
	13-02-01	13.0	+0.3/-0	18.0	+0/-0.3	1.5~2.5	0.2
	13-03	13.0	±0.2	15.8	±0.2	1.3~1.7	0.3
	13-04	13.1	+0.1/-0	22.0	+0/-0.1	2.5~2.8	0.25
	13-05	13.0	±0.2	15.8	±0.2	1.0~1.6	0.1
	13-06	13.5	+0.2/-0	21.0	±0.2	2.2~2.7	0.3
	13-07	13.5	±0.3	20.3	±0.3	2.3~3.0	0.5
	14	14.5	+0.3/-0.15	20.0	+0/-0.5	2.5~3.2	0.3
	14-01	14.4	±0.2	19.2	+0.3/-0	1.0~2.0	0.15
	14-02	14.0	+0.4/-0	30.0	±0.3	2.8~3.4	0.3
	14-03	14.5	+0.3/-0.15	20.0	+0/-0.5	2.5~3.1	0.2
	14-04	14.5	+0.3/-0.15	20.0	+0/-0.5	2.5~3.3	0.4
	14-05	14.5	+0.3/-0.15	20.0	+0/-0.5	2.5~3.2	0.5

Size-No.		Wave Washer (For general use)					
		d		D		H	t
		Basic	Tol.	Basic	Tol.	Range	
WW-	14-06	14.15	±0.1	20.0	+0/-0.5	2.5~3.2	0.3
	15	15.5	+0.3/-0.15	22.0	+0/-0.5	2.5~3.2	0.3
	15-01	15.5	+0.1/-0.5	20.0	+0/-0.5	2.5~3.2	0.3
	16	16.7	+0.3/-0.15	22.5	+0/-0.5	2.5~3.2	0.3
	16-01	16.5	+0/-0.1	21.5	±0.1	2.5~2.9	0.4
	16-02	17.0	+0.2/-0	21.5	+0.2/-0	2.5~2.9	0.4
	16-03	16.5	+0.3/-0.15	21.7	+0/-0.5	1.2~1.8	0.25
	16-04	16.0	+0.5/+0.2	21.8	+0/-0.2	2.0~2.5	0.2
	16-05	17.0	±0.2	25.0	+0/-0.2	3.0~3.4	0.4
	16-06	16.5	±0.1	21.5	±0.1	2.5~2.7	0.3
	16-07	16.7	+0.2/-0.1	23.1	+0.2/-0.1	2.5~2.9	0.25
	17 SUS	17.0	±0.2	21.0	±0.2	2.0~2.3	0.3
	17-01 SUS	17.0	+0/-0.5	30.5	+0.5/-0	2.5~3.0	0.5
	17-02	17.0	+0.3/-0	23.0	+0/-0.5	2.5~3.0	0.3
	17-03	17.9	±0.2	22.9	±0.2	3.7~4.1	0.3
	18	18.7	+0.6/-0	26.0	+0.1/-0.5	3.0~3.7	0.3
	18-01	18.0	±0.2	23.5	±0.2	2.5~2.8	0.3
	18-02	18.0	±0.2	23.5	±0.2	2.8~3.1	0.5
	18-03	18.0	±0.15	32.0	±0.1	2.5~2.8	0.5
	18-04 SUS	18.0	±0.2	23.5	±0.2	2.2~2.8	0.25
	18-05 SUS	18.8	±0.3	25.7	±0.1	1.6~2.0	0.5
	18-06	18.6	+0.2/-0.1	21.9	+0/-0.3	1.1~1.5	0.5
	18-07	18.8	+0.3/-0	22.2	+0/-0.3	1.8~2.3	0.4
	18-07-01	18.8	+0.3/-0	22.2	+0/-0.3	1.8~2.3	0.5
	19	19.0	+0.3/-0.15	26.0	+0/-0.5	3.0~3.7	0.3
	19-01	19.2	+0.3/-0	23.0	±0.2	2.0~2.5	0.4
	19-02	19.0	+0.2/-0	26.0	±0.2	3.0~3.3	0.25
	19-03	19.6	±0.2	24.9	±0.2	3.5~4.0	0.3
	19-03 SUS	19.3	+0.4/-0	24.7	+0.4/-0	3.4~3.7	0.3
	19-04	19.6	±0.2	26.4	±0.2	1.4~1.8	0.6
	19-05	19.2	±0.2	28.2	±0.2	2.3~2.7	0.4
	19-06	19.0	+0.3/+0.1	26.0	±0.2	1.8~2.35	0.3
	20	20.7	+0.3/-0.15	29.1	+0/-0.5	3.0~3.7	0.3
	20-01	20.3	±0.2	25.0	±0.2	2.5~3.0	0.3
	21	21.8	±0.2	28.0	±0.2	2.4~2.7	0.3
	21-01	21.7	±0.3	30.7	±0.3	3.5~4.2	0.3
	22	22.8	±0.2	26.0	±0.2	2.0~2.5	0.3
	22 T SUS	22.5	±0.2	27.0	+0/-0.4	1.2~2.0	0.6
	23	23.5	+0.5/-0.3	31.0	+0/-0.8	3.5~4.0	0.3
	23-01	23.5	+0.5/-0.3	31.0	+0/-0.8	3.5~3.9	0.25
	23-02	23.5	+0.5/-0.3	31.0	+0/-0.8	3.8~4.1	0.5
	23-03-T5	23.2	+0.2/-0	28.3	+0/-0.2	1.7~2.0	0.2
	27-T6	28.2	±0.3	32.2	±0.3	1.7~2.3	0.2
	28	28.5	+0.5/-0	36.0	±0.25	2.3~2.8	0.3
	31	25.2	+0.2/-0	31.0	+0/-0.5	3.2~3.5	0.3
	38	38.1	+0.5/-0	42.9	±0.3	2.2~2.9	0.25

• Material = carbon steel

Hardness = HRC40~50

Finish = black oxide