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Washer



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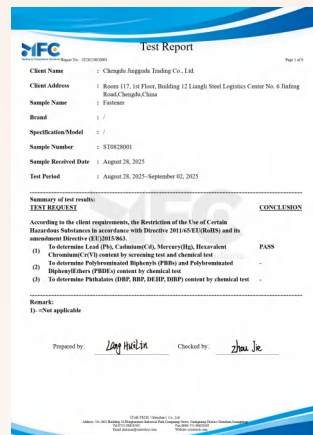
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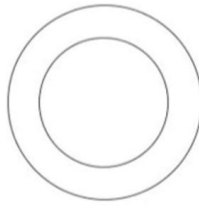
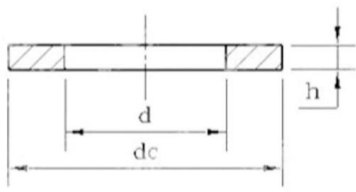
ABOUT US:

Sichuan Jingguda Fastener Co., Ltd. is a leading fastener manufacturer with 20+ years of industry expertise, integrating R&D, production, and global sales. Equipped with cutting-edge technology and precision craftsmanship, we specialize in high-performance anchoring solutions for diverse specifications. Our advanced production facilities, mature logistics network, and 24/7 customer support ensure reliable service worldwide.

CERTIFICATE:



Flat Washer

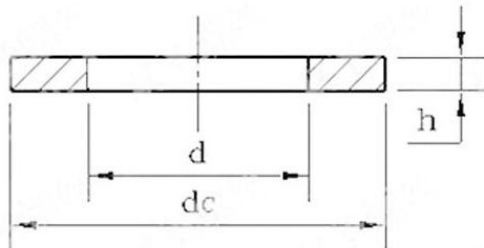


unit:mm

Nominal Diameter	d		dc		h
	Diameter	Tolerance	Diameter	Tolerance	
1	1.1	+0.12 0	3	-0.25	0.3
1.2	1.3		3.2	-0.3 0	
1.4	1.5		3.5		
1.6	1.7		4		
2	2.2		5	-0.36 0	
2.5	2.7	6.5			
3	3.2	+0.16 0	7		-0.43 0
4	4.2		9		
5	5.3		10	-0.52 0	
6	6.4	+0.2 0	12.5		
8	8.4		17		-0.62 0
10	10.5	+0.24 0	21		
12	13		24		
14	15		28	-0.62 0	3
16	17	30			
18	19	+0.28 0	34		
20	21		37		

Surface Treatment	Plain
Material	304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Ultra-Thin Flat Washer

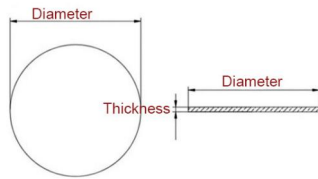


unit:mm

Specification	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20	M24	M30	M36
Inside Diameter(d)	1.7	2.2	2.7	3.2	4.3	5.3	6.4	8.4	10.5	10.5	15	17	21	25	31	37
Outside Diameter(dc)	4	5	5.8	6.8	8.8	10	12	16	20	20	28	30	37	44	56	66
Thickness(h)	0.3	0.3	0.5	0.5	0.8	1	1.6	1.6	2	2	2.5	3	3	4	4	5

Surface Treatment	White Zinc
Material	Carbon Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction,Other

Solid Disk Washer

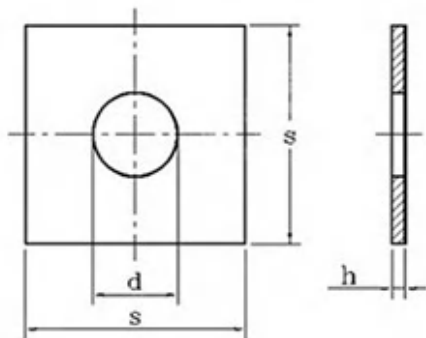


unit:mm

Specification	Outside Diameter	Thickness
M6*1	6	1
M12*1.2	12	1.2
M20*1.5	20	1.5
M25*2	25	2
M32*2.5	32	2.5
M40*3	40	3
M50*4	50	4
M80*5	80	5

Surface Treatment	Plain
Material	304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Square Flat Washer

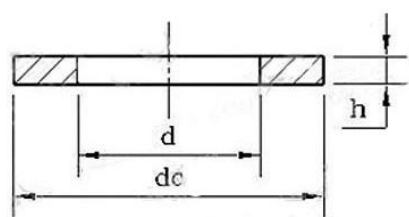


unit:mm

Specifications and Models	Inner Diameter	Side Length	Thickness
M8*30*30*3	8	30	3
M8*40*40*3	8	40	3
M10*30*30*3	10	30	3
M10*40*40*3	10	40	3
M12*30*30*3	12	30	3
M12*40*40*3	12	40	3
M14*40*40*3	14	40	3
M16*30*30*3	16	30	3
M16*50*50*3	16	50	3
M18*50*50*3	18	50	3
M20*50*50*3	20	50	3

Surface Treatment	White Zinc Plated,Plain
Material	Carbon Steel,304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction,Other

Thick Flat Washer

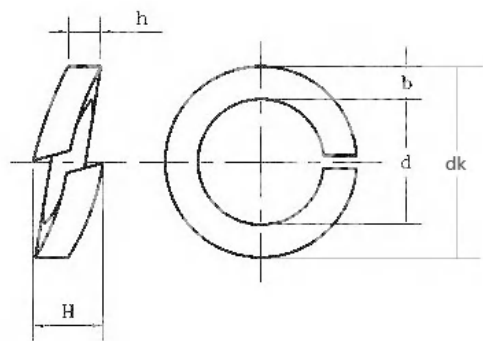


unit:mm

Specification	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20	M24	M30	M36
Inside Diameter(d)	1.7	2.2	2.7	3.2	4.3	5.3	6.4	8.4	11	13	15	17	21	25	31	37
Outside Diameter(dc)	3.9	4.9	5.8	6.8	8.8	10	12	16	20	24	28	30	37	44	56	66
Thickness(h)	0.3	0.3	0.5	0.5	0.8	1	1.6	1.6	2	2.5	2.5	3	3	4	4	5

Surface Treatment	Plain
Material	304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Split Lock Washer

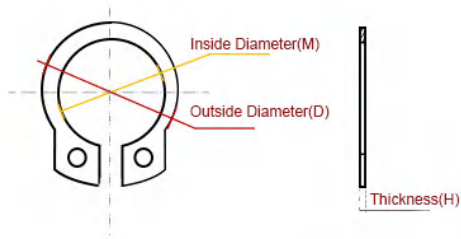


unit:mm

Specifications	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
Inside Diameter(d)	1.66	2.22	2.72	3.3	4.2	5.3	6.53	8.53	10.6	12.5	14.5	16.5	18.68	20.83	22.84	24.73	27.93	30.83
Thickness(h)	0.55	0.49	0.64	0.8	1.1	1.3	1.6	2.1	2.56	3.1	3.62	4.12	4.52	4.93	5.61	5.93	6.83	7.5
Gap Height(H)	0.88	1.1	1.52	1.92	2.52	2.83	3.81	4.63	5.82	6.92	6.72	9.21	10.12	11.3	12.52	13.5	15.21	16.73
Outside Diameter(dk)	2.9	3.3	4.3	5.1	6.4	8.0	9.8	13	15	18	22	25	27.5	30.9	34	36.8	41.3	46

Surface Treatment	Plain
Material	304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction,Other

Shaft Retaining Ring

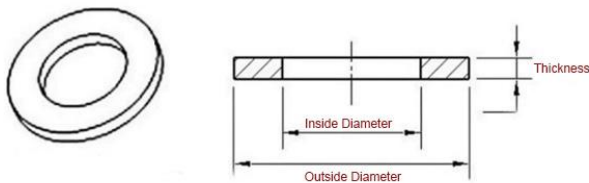


unit:mm

Specification	Inside Diameter(M)	Outside Diameter(D)	Thickness(H)
8	7.4	9.38	0.7
9	8.4	10.56	
10	9.3	11.5	1
11	10.2	12.5	
12	11	13.6	
13	11.9	14.7	
14	12.9	15.7	
15	13.8	16.8	
16	14.7	18.2	
17	15.7	19.4	
18	16.5	20.2	
19	17.5	21.2	
20	18.5	22.2	
21	19.5	23.5	

Surface Treatment	Polishing and Pickling
Material	304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Oversized Flat Washer

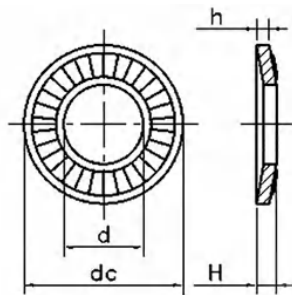


unit:mm

Specification	Inside Diameter	Outside Diameter	Thickness
M8	8.4mm	16mm	1.6mm
M10	10.6mm	19.9mm	1.9mm
M12	13mm	24mm	2.6mm
M14	15mm	28mm	2.7mm
M16	17.2mm	29.6mm	3mm
M18	19mm	34mm	2.7mm
M20	21mm	36.8mm	2.8mm
M22	23mm	39mm	3.1mm
M24	25.4mm	44mm	4.2mm
M27	28.2mm	50mm	4.1mm
M30	31.2mm	56mm	4mm
M33	34mm	60mm	5.2mm
M36	37mm	66mm	5mm

Surface Treatment	Hot-dip galvanizing
Material	Carbon Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Double-Sided Serrated Washer

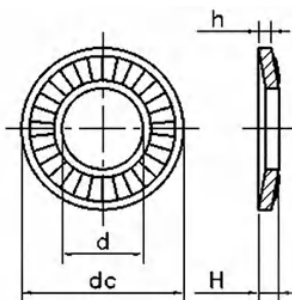


unit:mm

Diameter	dc	d	h	H
M3	5.5	3.4	0.5	0.9
M4	7	4	0.5	0.9
M5	8.9	5.4	0.6	1.1
M6	9.9	6.1	0.7	1.2
M8	12.8	8.5	0.8	1.5
M10	16	10	1	1.7
M12	18	12.7	1.2	2
M14	21.3	14.4	1.5	2
M16	24	17	1.3	2.2
M18	27.2	18.8	1.5	2
M20	30.2	20.6	1.5	2.7
M22	33	22.7	1.5	2.7
M25	36	25.2	1.8	2.9

Surface Treatment	Untreated
Material	304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Single-sided Embossed Belleville Washer

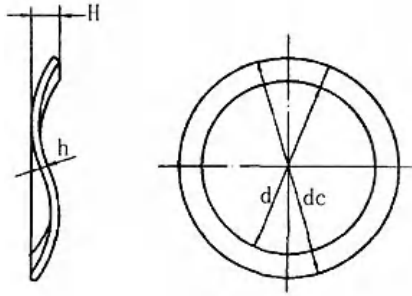


unit:mm

Nominal Diameter(d)	d		dc		h		H	
	max	min	nominal	tolerance	nominal	tolerance	max	min
M4	4.1	4.0	10	±0.29	0.8	±0.05	1.5	1.4
M5	5.5	5.4	12	±0.35	0.9		1.6	1.5
M6	6.2	6.1	13.8	±0.35	1.3		1.9	2.1
M8	8.2	8.05	18	±0.35	1.4		2.7	2.65
M10	10.4	10.3	22	±0.42	1.4	±0.05	2.7	2.65
M12	12.3	12.2	26	±0.42	1.8		3.2	3.0
M16	16.6	16.4	32	±0.50	1.9		3.6	3.4
M20	20.6	20.2	39	±0.50	2.6		4.1	3.8

Surface Treatment	Plain
Material	304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Wave Washer

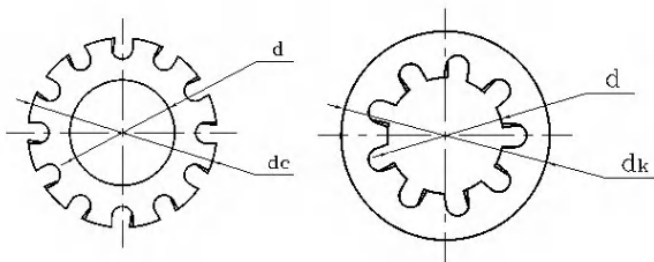


unit:mm

Outside Diameter	Inside Diameter	Free Height(≈)	Thickness(h)
3	6	1	0.4
4	8	1.1	0.3
5	10	1.4	0.3
6	12	1-1.5	0.3
8	13	1.6	0.3
10	15	1.6	0.3
12	18	1.7	0.3
16	21	2	0.3
19	25	2.7	0.3
23	29	3	0.3
25	31	3.6	0.3
27	34	4	0.3
31	39	4	0.3

Surface Treatment	Plain
Material	304Stainless Steel,Carbon Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Internal & External Serrated Lock Washer

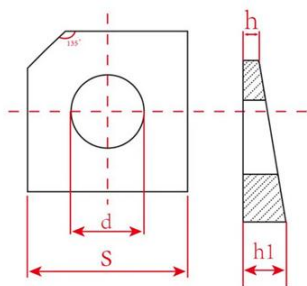


unit:mm

304Stainless Steel	Inside Diameter(d)	Outside Diameter(dc)	Thickness
M3	3	7	0.5
M4	4	9	0.5
M5	5	10	0.6
M6	6	11	0.6
M8	8	15	0.7
M10	10	18	0.8
M12	12	22	0.8
M14	14	24	1
M16	16	26	1.2
M18	18	30	1.5
M20	20	33	1.5

Surface Treatment	Untreated / Galvanized
Material	304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Beveled Square Washer

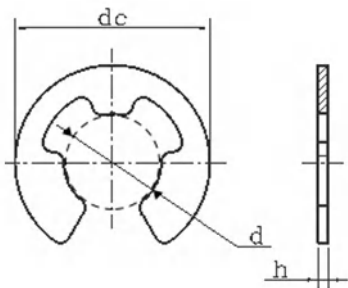


unit:mm

Specification	d		s	h	h1	The quality of steel products ≈ kg
	max	min				
6	6.96	6.6	16	2	3.6	4.75
8	9.36	9	18		3.8	5.79
10	11.43	11	22		4.2	9.31
12	13.93	13.5	28		4.8	16.9
16	17.93	17.5	35	3	5.4	28.22
18	20.52	20	40		7	50
20	22.52	22				47.43
22	24.52	24				44.61
24	26.52	26	50		8	84.33
27	30.52	30				76.78
30	33.62	33	60		9	128.3
36	39.62	39	70		10	187.7

Surface Treatment	Plain,Iron Black
Material	304Stainless Steel,Carbon Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

E-type Retaining Ring



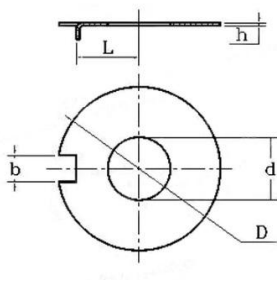
unit:mm

Specification	Inside Diameter(d)	Outside Diameter(dc)	Thickness(h)
M1.2	1.1	3.2	0.3
M1.5	1.4	4	0.4
M2	1.8	5	0.4
M2.5	2.3	5.8	0.4
M3	2.9	7	0.5
M3.5	3.4	8	0.5
M4	3.8	9	0.7
M5	4.8	9.8	0.8
M6	5.7	12	0.8/1
M7	6.7	14	0.8/1

Surface Treatment	Pickling
Material	304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry



External Tab Washer

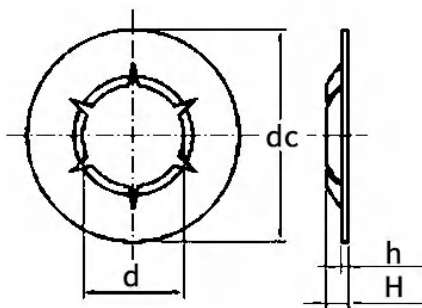


unit:mm

Specification	d		D		b		b			h	The quality of steel products ≈ kg
	max	min	max	min	max	min	nominal	max	min		
2.5	2.95	2.7	10	9.64	2	1.75	3.5	3.2	3.8	0.4	0.21
3	3.5	3.2	12	11.57	2.5	2.25	4.5	4.2	4.8		0.3
4	4.5	4.2	14	13.57	2.5	2.25	5.5	5.2	5.8		0.41
5	5.6	5.3	17	16.57	3.5	3.2	7	6.64	7.36	0.5	0.75
6	6.76	6.4	19	18.48	3.5	3.2	7.5	7.14	7.86		0.92
8	8.76	8.4	22	21.48	3.5	3.2	8.5	8.14	8.86		1.2
10	10.93	10.5	26	25.48	4.5	4.2	10	9.64	10.36	1	1.65
12	13.43	13	32	31.38	4.5	4.2	12	11.57	12.43		5
14	15.43	15	32	31.38	4.5	4.2	12	11.57	12.43		4.65
16	17.43	17	40	39.38	5.5	5.2	15	14.57	15.43		7.73
18	19.52	19	45	44.38	6	5.7	18	17.57	18.43		9.85
20	21.52	21	45	44.38	6	5.7	18	17.57	18.43		10.36

Surface Treatment	Plain
Material	304Stainless Steel,Carbon Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Bearing Retaining Ring



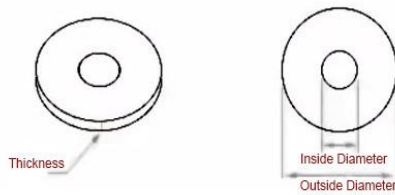
unit:mm

Nominal Diameter(d)	d		dc	H	h	
	max	min			Nominal	Tolerance
M2	3.9	1.8	6	0.7	0.25	±0.025
M3	2.9	2.75	10	1.3	0.3	
M4	3.9	3.75	12	1.4	0.3	
M5	4.9	4.75	14	1.55	0.4	±0.03
M6	5.9	5.75	16	1.75	0.4	
M8	7.9	7.75	17.5	1.8	0.5	
M10	9.9	9.75	21	2.2	0.7	±0.04
M12	11.9	11.75	27	2.8	0.9	±0.05



Surface Treatment	Black Oxide / Untreated
Material	304Stainless Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Composite Waterproof Washer

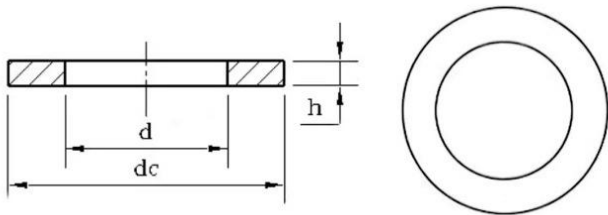


unit:mm

Specs and Model	Inside Diameter	Outside Diameter	Thickness
M4.2*12	12	4.2	2.5
M4.8*14	14	4.8	2.5
M5.5*16	16	5.5	2.1
M6.3*16	16	6.3	2.5

Surface Treatment	Plain/ Galvanized
Material	304Stainless Steel,Carbon Steel
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Single-end Solder Tab

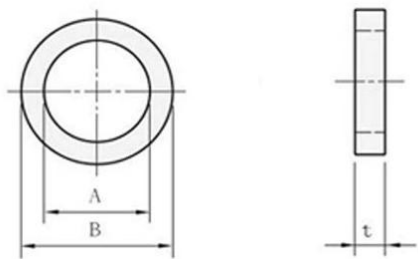


unit:mm

Specification	Outside Diameter	Inside Diameter	Thickness
M2	5mm	2.2mm	0.8mm
M2.5	6mm	2.7mm	0.8mm
M3	7mm	3.2mm	0.9mm
M4	9mm	4.2mm	1mm
M5	10mm	5.2mm	1.2mm
M6	12mm	6.2mm	1.5mm
M8	16mm	8.2mm	1.6mm
M10	20mm	10.5mm	2mm
M12	24mm	13mm	2.5mm
M14	28mm	15mm	2.5mm
M16	30mm	16.2mm	3mm
M18	34mm	18.2mm	3mm
M20	37mm	21mm	3mm

Surface Treatment	Plain
Material	PEEK
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Red Fiber Gasket

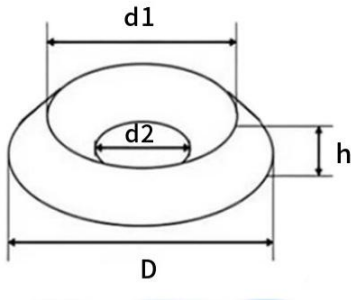


unit:mm

Inside Diameter(A)	2	2.5	3	4	5	6	8	8	10	10	12
Outside Diameter(B)	5	6.5	7	9	10	12.5	17	17	21	21	24
Thickness(t)	0.3	0.5	0.5	0.8	0.8	1.5	1.5	1.5	2	2	2

Surface Treatment	Untreated
Material	Paper
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry

Multi-Color Aluminum Alloy Gasket



unit:mm

Specification	M3	M4	M5	M6	M8
Suitable Diameter	3	4	5	6	8
Inside Diameter(d2)	3.1	4.1	5.1	6.1	8.1
Outside Diameter(D)	8	10	12	13.8	15
Thickness(h)	2	2.5	3.2	3.3	3.8

Surface Treatment	Anodized
Material	Aluminum alloy
Standard	DIN,ASTM,ISO,JIS,BS,AS,GB
Applicable industries	Construction for the Automotive Industry