

JX STAMPING FASTENERS SERIES

Disc spring washers IS B1251 1 (For ordinary screws)



Main Material:65MN.SK5.SK7.SUS304.316(A2.A4)and other special customized material

Surface Treatment:stainless steel curing polished original color or spring steel in black,mechanical galvanizing,nickel plating, Dacromet coating treatment

Unit:mm

P/N Size	Inside DIA d		Outer DIA D		Light Load(IL)				Heavy Load(IH)					
	Standard Size	Tol	Standard Size	Tol	Thickness t		Standard height H	After use High H (Min)	Test Load kN	Thickness t		Standard height H	After use High H (Min)	Test Load kN
					Standard Size	Tol				Standard Size	Tol			
JX-IS B1251-1-M3-SS	3.2	+0.2 0	7	0 -0.25	0.5	±0.035	0.75	0.6	1.0	-	-	-	-	-
JX-IS B1251-1-M4-SS	4.3		9		0.7	±0.045	0.95	0.8	1.8	-	-	-	-	-
JX-IS B1251-1-M4.5-SS	4.8		10		0.8	±0.05	1.05	0.9	2.3	-	-	-	-	-
JX-IS B1251-1-M5-SS	5.3		10		0.8		1.1	0.9	2.9	-	-	-	-	-
JX-IS B1251-1-M6-SS	6.4	+0.25 0	12.5	0 -0.3	1.0	±0.055	1.35	1.15	4.1	1.2	±0.06	1.55	1.3	8.2
JX-IS B1251-1-M8-SS	8.4		17		1.4	±0.07	1.85	1.6	7.5	1.8	±0.085	2.15	1.95	15
JX-IS B1251-1-M10-SS	10.5	+0.3 0	21	0 -0.4	1.8	±0.85	2.3	2.0	12	2.2	±0.10	2.65	2.4	24
JX-IS B1251-1-M12-SS	13		24		2.2	±0.10	2.7	2.45	18	2.5		3.05	2.7	34
JX-IS B1251-1-M14-SS	15		28		2.5		3.15	2.8	24	3.0	3.65	3.25	47	
JX-IS B1251-1-M16-SS	17		30		2.8		3.5	3.1	32	3.5	±0.11	4.1	3.7	64
JX-IS B1251-1-M18-SS	19		34		3	3.9	3.35	39	4.0	±0.14	4.65	4.25	78	
JX-IS B1251-1-M20-SS	21	37	3.5	±0.11	4.4	3.85	49	4.5	5.2		4.75	98		
JX-IS B1251-1-M22-SS	23	+0.35 0	39	0 -0.5	3.5	±0.14	4.7	3.9	62	5.0	5.65	5.25	120	
JX-IS B1251-1-M24-SS	25		44		4.0		5.2	4.45	72	-	-	-	-	-
JX-IS B1251-1-M27-SS	28	50	4.5	±0.14	5.9	5.0	93	-	-	-	-	-		
JX-IS B1251-1-M30-SS	31	+0.4 0	56	0 -0.7	5.0	±0.14	6.6	5.6	120	-	-	-	-	

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Inner and outer diameter tolerance			Thickness, free height and load tolerances				
Inner or Outer Dia	Tol (mm)		Group	Disc thickness	Tol (mm)		Hardness
mm	(O.D.)	(I.D.)	Group	Disc thickness	Thickness(t or t')	Height (IO)	Load (F)%
3~6	0~0.12	0~+0.12	1	0.2 to 0.6	+0.02 -0.06	+0.02 -0.05	+25.0 -7.50
6~10	0~0.15	0~+0.15					
10~18	0~0.18	0~+0.18					
18~30	0~0.21	0~+0.21					
30~50	0~0.25	0~+0.25					
50~80	0~0.30	0~+0.30	2	1.25 to 2.0	+0.04 -0.12	+0.15 -0.08	+15.0 -7.50
80~120	0~0.35	0~+0.35					
120~180	0~0.40	0~+0.40					
180~250	0~0.46	0~+0.46					
250~315	0~0.52	0~+0.52					
315~400	0~0.57	0~+0.57	3	>6.0 to 14.0	±0.10	±0.30	±5.00

Common materials and application industries of disc spring manufacturing			
Material Item	Material properties	Temperature range(°C)	Scope of application
51CrV4/SK5.SK7/65MN.SK5.SK7/60SiMnA.50CrVA	Standard Material	-20~60 -50~100	Equipment manufacturing, machinery manufacturing, Automotive industry and general industry
51CrMov4/SK5.SK7/60SiMnA.50CrVA	Thickness Material	-50~100	Equipment manufacturing,
x12cNi177 x7crNiAl177/x5crNiMo1810 /SUS301.304.420J2.630.631	Preservative	-200~100 -200~350	Food industry, chemical industry
x35crMo17/x30wcrV35/x22crMoV121	Thermal stability	-200~100 -60~400 -60~400 -60~500	Construction of chemical industry, boilers and power plants
cuBe2/cuBe1.7/SUS301.304.420J2.630.631	Antimagnetic and corrosion resistant	-260~200 -260~700	Electronics industry, satellite industry, satellite equipment, cryogenic technology
Inconel718/Inconelx750/Nimonic 90/SUS301.304.420J2.630.631	High temperature material	-260~600 -260~800	Chemical industry and boiler construction

Grip rings



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Surface Treatment:stainless steel curing polished original color or spring steel in black,mechanical galvanizing,nickel plating, Dacromet coating treatment

Part Number Designation
JX-GB960 - D1.5 - 65MN
Type and Material Code: 65MN
Size Code: D1.5

Part Number Designation
JX-GB960 - D1.5 - SS
Type and Material Code: SS
Size Code: D1.5

Unit:mm

Size D	P/N		d		d	n	h
	65MN	Stainless steel	Basic size	Limit deviation			
1.5	JX-GB960-D1.5-65MN	JX-GB960-D1.5-SS	1.2	+0.14 -0	0.65	0.6	0.35
2	JX-GB960-D2-65MN	JX-GB960-D2-SS	1.7		0.95		0.40
3	JX-GB960-D3-65MN	JX-GB960-D3-SS	2.5	+0.18 -0	1.40	0.8	0.60
4	JX-GB960-D4-65MN	JX-GB960-D4-SS	3.2		1.90		1.0
5	JX-GB960-D5-65MN	JX-GB960-D5-SS	4.3	+0.22 -0	2.50	1.2	0.80
6	JX-GB960-D6-65MN	JX-GB960-D6-SS	5.5		3.20		
8	JX-GB960-D8-65MN	JX-GB960-D8-SS	7.7	+0.22 -0	4.50	1.6	1
10	JX-GB960-D10-65MN	JX-GB960-D10-SS	9.5		5.80		