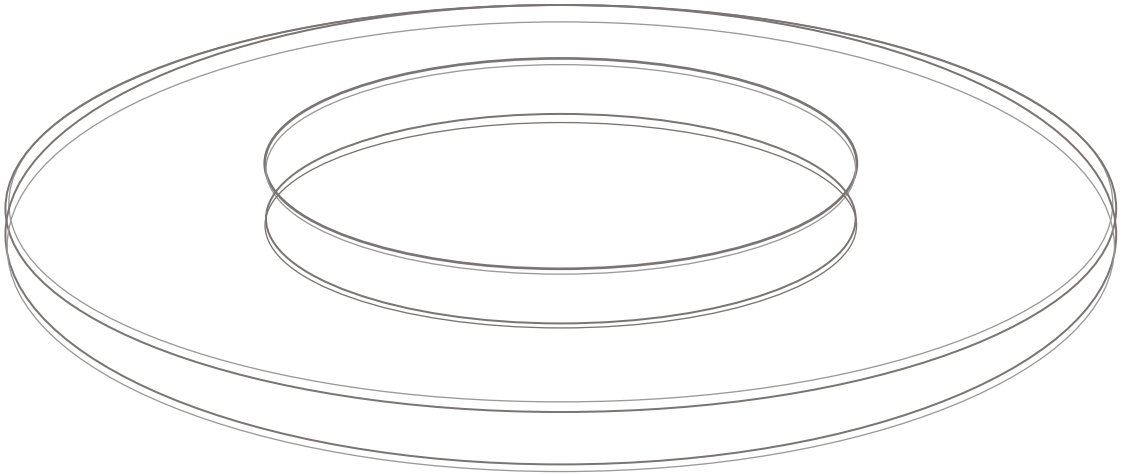


VINSCO
SPRING
LIMITED

VINSCO®





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About VINSCO®

Vinsco® focus on Disc springs designing & manufacturing, dedicating in supply efficient and steady elasticity solutions. Vinsco® Disc springs are mainly used in Valve, LNG vessel, IGBT, CNC Spindle, Automotive steering and braking systems, Petrochemical industry, Electrical etc.

VINSCO® Disc Springs are designed as per DIN EN 16984 standard and manufactured as per DIN EN 16983 standard. Outer diameter range from 6mm to 500mm. Material including spring steel 51CrV4, Corrosion-resistant steel ASTM301, 304, 316L, 17-7PH, 17-4PH, 15-7Mo; Heat resistant steel H13, X30WCrV53, X22CrMoV12-1, X39CrMo17-1; Nickel and cobalt alloys steel Inconel X750, Inconel X718, Nimonic90, etc.

For meeting prompt delivery, VINSCO® has large stocks for standard Disc springs, also, customized Disc springs are welcomed without MOQ request.

Continued its steady growth by implementing modern manufacturing methods. A highly qualified team of engineers uses their engineering backgrounds, experience and skills in designing and improving the manufacturing process to enhance quality products.

VINSCO® is not just a Disc spring manufacturer; more are quality and reliable partner.

Welcome to contact with our sales engineers for more information.

关于西科德®

西科德®专注于碟形弹簧的设计和制造,力求为客户提供高效稳定的弹性解决方案。西科德®碟形弹簧主要应用于阀门, LNG 运输船, 半导体封装, CNC 主轴, 汽车转向和制动系统, 石化, 电气等领域。

西科德®碟形弹簧是按照 DIN EN 16984 标准设计, 按照 DIN EN16983 标准生产, 外径从 6mm 到 500mm, 材质包括合金钢 51CrV4; 不锈钢 ASTM301, 304, 316L, 17-7PH, 17-4PH, 15-7Mo; 耐热钢 H13, X30WCrV53, X22CrMoV12-1, X39CrMo17-1; 耐高温不锈钢 Inconel X750, Inconel X718, Nimonic 90 等。

西科德®备有大量标准碟形弹簧库存, 同时, 西科德®更擅长非标弹簧的设计和制造, 并且没有最小订购量的要求。

西科德®持续改进生产工艺, 革新制造和检测设备, 以确保持续提供更高品质的产品来服务客户。

西科德®不仅是碟形弹簧的专业制造商, 更是品质保证和值得信赖的伙伴。

欢迎您联系我们的销售工程师以了解更多。



Name 名称	JIS	AISI / ASTM	Material No. 材料号	Standard 标准	Working Temperature 工作温度 °C	Chemical Analysis in % 化学分析 %	
						C	Si
Spring steel 弹簧钢							
51CrV4	SUP10	6150	1.8159	DIN EN 10132-4	-50 to +200	0.47-0.55	≤ 0.4
Corrosion resistant steel 耐腐蚀钢							
X 10CrNi 18-8	SUS301	301	1.4310	DIN EN 10151	-200 to +200	0.05-0.15	≤ 2.0
X 5CrNi 18-10	SUS304	304	1.4301	DIN EN 10151	-200 to +200	≤ 0.07	≤ 1.0
X 5CrNiMo 17-12-2	SUS316	316	1.4401	DIN EN 10151	-200 to +200	≤ 0.07	≤ 1.0
X 7CrNiAl 17-7	SUS631	17-7PH	1.4568	DIN EN 10151	-200 to +300	≤ 0.09	≤ 0.7
X5CrNiCuNb 16-4	SUS630	17-4PH	1.4542	DIN EN 10151	-200 to +300	≤ 0.07	≤ 1.0
X8CrNiMoAl 15-7-2	—	15-7Mo	1.4532	DIN EN 10151	-200 to +300	≤ 0.09	≤ 1.0
Heat resistant steel 耐热钢							
X39CrMo 17-1	—	—	1.4122	DIN EN 10088-2	-50 to +400	0.33-0.45	≤ 1.0
X 22CrMoV 12-1	—	—	1.4923	DIN EN 10269	-50 to +500	0.18-0.24	≤ 0.5
X30WCrV53	SKD4	—	1.2567	—	-50 to +500	0.25-0.35	0.15-0.30
Tool steel 工具钢							
X40CrMoV5-1	SKD61	H13	1.2344	—	-150 to +600	0.32-0.40	0.8-1.20
Antimagnetic and corrosion resistant steel 镍基合金钢						C	Si
Inconel X750	—	5542L	2.4669	DIN EN 10302	-200 to +600	≤ 0.08	≤ 0.50
Inconel X718	—	5596J	2.4668	DIN EN 10302	-200 to +600	0.02-0.08	≤ 0.35
Nimonic 90	—	5829C	2.4632	DIN EN 10302	-200 to +700	≤ 0.13	≤ 1.0
						Ti	Cu
Inconel X750	—	5542L	2.4669	DIN EN 10302		2.25-2.75	≤ 0.50
Inconel X718	—	5596J	2.4668	DIN EN 10302		0.70-1.15	≤ 0.20
Nimonic 90	—	5829C	2.4632	DIN EN 10302		2.0-3.0	≤ 0.2

Chemical Analysis in % 化学分析 %										
	Mn	P max	S max	Cr	V	Mo	Ni	N	Al	Co
	0.7-1.1	0.025	0.025	0.9-1.2	0.1-0.25	≤ 0.1	≤ 0.4	—	—	—
	≤ 2.0	0.045	0.015	16.0-19.0	—	≤ 0.08	6.0-9.5	—	—	—
	≤ 2.0	0.045	0.015	17.0-19.5	—	—	8.0-10.5	≤ 0.11	—	—
	≤ 2.0	0.045	0.015	16.5-18.5	—	2.0-2.5	10.0-13.0	≤ 0.11	—	—
	≤ 1.0	0.04	0.015	16.0-18.0	—	—	6.5-7.8	—	0.7-1.5	—
	≤ 1.0	0.035	0.03	15.0-17.0	—	—	3.0-5.0	—	—	—
	≤ 1.0	0.04	0.03	14.0-16.0	—	2.0-3.0	6.5-7.75	—	0.75-1.5	—
	≤ 1.5	0.04	0.03	15.5-17.5	—	0.7-1.3	≤ 1.0	—	—	—
	0.4-0.9	0.025	0.015	11-12.5	0.25-0.35	0.8-1.2	0.3-0.8	—	—	—
	0.20-0.40	0.035	0.035	2.2-2.5	0.5-0.7	—	≤ 0.35	W 4-5	—	—
	0.20-0.50	0.030	0.030	4.75-5.50	0.80-1.20	1.10-1.75	—	—	—	—
	Mn	Pmax	Smax	Cr	V	Mo	Ni	N	Al	Co
	≤ 1.0	0.02	0.015	14.0-17.0	-	-	≥ 70	-	0.4-1.0	≤ 1.0
	≤ 0.35	0.015	0.015	17.0-21.0	-	2.8-3.3	50.0-55.0	-	0.3-0.7	≤ 1.0
	≤ 1.0	0.03	0.015	18.0-21.0	-	-	Balance	-	1.0-2.0	15.0-21.0
	Nb+Ta	Zr	B	Fe						
	0.7-1.2	-	-	5.0-9.0						
	4.8-5.5	-	≤ 0.006	Balance						
		≤ 0.15	≤ 0.02	≤ 1.5						

Name 名称	Tensile Strength 抗拉强度 N/mm ²	E-modulus in KN/mm ² 弹性模量 KN/mm ²							Thickness range 厚度范围 mm
		at RT °C	100°C	200°C	300°C	400°C	500°C	600°C	
Spring steel 弹簧钢									
51CrV4	1200-1800	206	202	196	—	—	—	—	0.3 to 30
Corrosion resistant steel 耐腐蚀钢									
X 10CrNi 18-8	1150-1500	190	186	180	—	—	—	—	0.2 to 4.0
X 5CrNi 18-10	1000-1500	185	179	171	—	—	—	—	0.2 to 4.0
X 5CrNiMo 17-12-2	1000-1500	180	176	171	—	—	—	—	0.2 to 3.5
X 7CrNiAl 17-7	1150-1700	195	190	180	171	—	—	—	0.2 to 9.0
X5CrNiCuNb 16-4	1150-1700	195	190	180	171	—	—	—	0.2 to 9.0
X8CrNiMoAl 15-7-2	1150-1700	195	190	180	171	—	—	—	0.2 to 9.0
Heat resistant steel 耐热钢									
X39CrMo 17-1	1200-1400	215	212	205	200	190	—	—	0.3 to 30
X 22CrMoV 12-1	1200-1400	216	209	200	190	179	167	—	1.5 to 20
X30WCrV53	≥ 1470	216	209	200	190	179	167	—	0.3 to 30
Tool steel 工具钢									
X40CrMoV5-1	1650-1990	206	200	196	189	186	158	—	0.3 to 30
Antimagnetic and corrosion resistant steel 镍基合金钢									
Inconel X750	≥ 1170	214	207	198	190	179	170	158	0.1 to 15.0
Inconel X718	≥ 1240	199	195	190	185	179	174	167	0.1 to 15.0
Nimonic 90	≥ 1100	220	216	208	202	193	187	178	0.1 to 15.0

Diameter tolerance 外径和内径公差			
D or d mm 外径 D 或者内径 d		Permissible deviation in mm 容许公差 mm	
	D 外径 mm	d 内径 mm	Concentricity 同心 mm
over 3 to 6	0 / -0.12	+0.12 / 0	0.15
over 6 to 10	0 / -0.15	+0.15 / 0	0.18
over 10 to 18	0 / -0.18	+0.18 / 0	0.22
over 18 to 30	0 / -0.21	+0.21 / 0	0.26
over 30 to 50	0 / -0.25	+0.25 / 0	0.32
over 50 to 80	0 / -0.30	+0.30 / 0	0.60
over 80 to 120	0 / -0.35	+0.35 / 0	0.70
over 120 to 180	0 / -0.40	+0.40 / 0	0.80
over 180 to 250	0 / -0.46	+0.46 / 0	0.92
over 250 to 315	0 / -0.52	+0.52 / 0	1.04
over 315 to 400	0 / -0.57	+0.57 / 0	1.14
over 400 to 500	0 / -0.63	+0.63 / 0	1.26

Thickness tolerance 厚度公差		
	t or t' mm	Tolerance for t mm 厚度容许公差 mm
Group 1	0.2 to 0.6	+0.02 / -0.06
	> 0.6 to < 1.25	+0.03 / -0.09
Group 2	1.25 to 3.8	+0.04 / -0.12
	> 3.8 to 6.0	+0.05 / -0.15
Group 3	> 6.0 to 16.0	+0.10 / -0.10

Overall Height tolerance 高度公差		
	t mm	Tolerance for lo mm 高度容许公差 mm
Group 1	< 1.25	+0.10 / -0.05
Group 2	1.25 to 2.0	+0.15 / -0.08
	> 2.0 to 3.0	+0.20 / -0.10
	> 3.0 to 6.0	+0.30 / -0.15
Group 3	> 6.0 to 16.0	+0.30 / -0.30

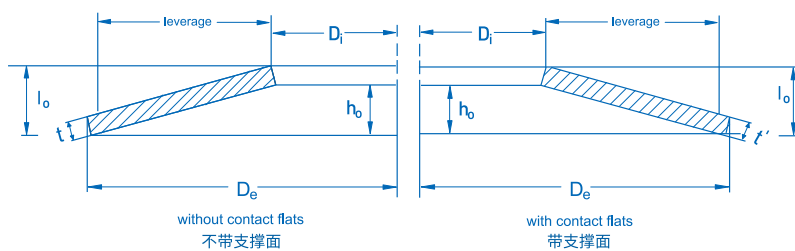
To ensure the specified forces, DIN EN 16983 allows the overall height and thickness tolerance to be slightly exceeded.

为了达到额定载荷，DIN EN16983 允许高度和厚度些许超差。

Force tolerance 荷载公差		
	t mm	Tolerance for F at the test length $l_p=l_0-0.75h_0$ f=0.75h ₀ 荷载公差
Group 1	< 1.25	+25% / -7.5%
Group 2	1.25 to 3.0	+15% / -7.5%
	> 3.0 to 6.0	+10% / -5.0%
Group 3	> 6.0 to 16.0	+5.0% / -5.0%



Disc Springs Specifications 碟形弹簧规格



The Specifications and Parameters are based on standard material 51CrV4.
下表中的规格和参数基于标准材质 51CrV4.

Disc Springs Specifications 碟形弹簧规格													
Part No.		De mm	Di mm	t mm	t' mm	l0 mm	h0 mm	h0/t	s=0.25h0 F/N	s=0.50h0 F/N	s=0.75h0 F/N	s=1.00h0 F/N	weight/ 1000pcs kgs
100001		6.00	3.20	0.30		0.45	0.15	0.50	45	84	119	153	0.044
100002		8.00	3.20	0.20		0.40	0.20	1.00	12	20	26	30	0.064
100003		8.00	3.20	0.30		0.55	0.25	0.83	46	79	104	126	0.099
100004		8.00	3.20	0.40		0.60	0.20	0.50	69	130	186	238	0.133
100005		8.00	3.20	0.50		0.70	0.20	0.40	128	246	357	465	0.166
100006	C	8.00	4.20	0.20		0.45	0.25	1.25	21	33	39	42	0.057
100007	B	8.00	4.20	0.30		0.55	0.25	0.83	52	89	118	142	0.086
100008	A	8.00	4.20	0.40		0.60	0.20	0.50	78	147	210	269	0.114
100009		10.00	3.20	0.30		0.65	0.35	1.17	51	82	98	108	0.166
100010		10.00	3.20	0.40		0.70	0.30	0.75	75	133	179	220	0.221
100011		10.00	3.20	0.50		0.75	0.25	0.50	104	195	279	357	0.277
100012		10.00	4.20	0.40		0.70	0.30	0.75	79	140	189	232	0.203
100013		10.00	4.20	0.50		0.75	0.25	0.50	110	206	294	377	0.254
100014		10.00	4.20	0.60		0.85	0.25	0.42	182	347	502	652	0.304
100015	C	10.00	5.20	0.25		0.55	0.30	1.20	30	48	58	63	0.112
100016	B	10.00	5.20	0.40		0.70	0.30	0.75	88	155	209	257	0.180
100017	A	10.00	5.20	0.50		0.75	0.25	0.50	122	228	325	418	0.225
100018		12.00	4.20	0.40		0.80	0.40	1.00	85	141	178	206	0.311
100019		12.00	4.20	0.50		0.85	0.35	0.70	116	208	284	352	0.389
100020		12.00	4.20	0.60		1.00	0.40	0.67	224	405	557	694	0.467
100021		12.00	5.20	0.50		0.90	0.40	0.80	150	263	350	424	0.360
100022		12.00	5.20	0.60		0.95	0.35	0.58	196	361	506	641	0.432
100023		12.00	6.20	0.50		0.85	0.35	0.70	134	239	326	404	0.325
100024		12.00	6.20	0.60		0.95	0.35	0.58	214	394	552	699	0.390
100025		12.50	5.20	0.50		0.85	0.35	0.70	111	200	270	337	0.382
100026	C	12.50	6.20	0.35		0.80	0.45	1.29	84	130	151	160	0.254
100027	B	12.50	6.20	0.50		0.85	0.35	0.70	120	215	293	363	0.363
100028	A	12.50	6.20	0.70		1.00	0.30	0.43	239	457	660	855	0.508

Disc Springs Specifications 碟形弹簧规格													
Part No.		D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100029	C	14.00	7.20	0.35		0.80	0.45	1.29	68	106	123	131	0.311
100030	B	14.00	7.20	0.50		0.90	0.40	0.80	120	210	279	338	0.444
100031	A	14.00	7.20	0.80		1.10	0.30	0.38	284	547	797	1040	0.711
100032		15.00	5.20	0.40		0.95	0.55	1.38	101	154	176	181	0.488
100033		15.00	5.20	0.50		1.00	0.50	1.00	133	221	278	321	0.610
100034		15.00	5.20	0.60		1.05	0.45	0.75	171	302	407	499	0.732
100035		15.00	5.20	0.70		1.10	0.40	0.57	214	395	555	704	0.854
100036		15.00	6.20	0.50		1.00	0.50	1.00	138	229	289	334	0.575
100037		15.00	6.20	0.60		1.05	0.45	0.75	178	314	424	519	0.690
100038		15.00	6.20	0.70		1.10	0.40	0.57	222	411	578	733	0.805
100039		15.00	8.20	0.70		1.10	0.40	0.57	256	474	666	844	0.681
100040		15.00	8.20	0.80		1.20	0.40	0.50	367	689	982	1261	0.778
100041	C	16.00	8.20	0.40		0.90	0.50	1.25	84	131	154	165	0.465
100042	B	16.00	8.20	0.60		1.05	0.45	0.75	172	304	410	503	0.698
100043		16.00	8.20	0.70		1.15	0.45	0.64	254	461	641	798	0.786
100044		16.00	8.20	0.80		1.20	0.40	0.50	308	579	825	1059	0.888
100045	A	16.00	8.20	0.90		1.25	0.35	0.39	363	697	1013	1319	1.047
100046		18.00	6.20	0.40		1.00	0.60	1.50	85	126	139	137	0.704
100047		18.00	6.20	0.50		1.10	0.60	1.20	130	206	245	267	0.880
100048		18.00	6.20	0.60		1.20	0.60	1.00	191	317	400	462	1.056
100049		18.00	6.20	0.70		1.25	0.55	0.79	236	414	553	672	1.232
100050		18.00	6.20	0.80		1.30	0.50	0.63	286	523	726	912	1.408
100051		18.00	8.20	0.70		1.25	0.55	0.79	255	446	596	725	1.108
100052		18.00	8.20	0.80		1.30	0.50	0.63	309	564	783	984	1.266
100053		18.00	8.20	1.00		1.40	0.40	0.40	425	815	1181	1537	1.582
100054	C	18.00	9.20	0.45		1.05	0.60	1.33	121	186	214	223	0.664
100055	B	18.00	9.20	0.70		1.20	0.50	0.71	233	417	566	699	1.033
100056	A	18.00	9.20	1.00		1.40	0.40	0.40	451	865	1254	1631	1.476
100057		20.00	8.20	0.50		1.15	0.65	1.30	128	199	231	243	1.026
100058		20.00	8.20	0.60		1.30	0.70	1.17	214	342	412	453	1.231
100059		20.00	8.20	0.70		1.35	0.65	0.93	262	442	569	668	1.436
100060		20.00	8.20	0.80		1.40	0.60	0.75	315	557	751	921	1.641
100061		20.00	8.20	0.90		1.45	0.55	0.61	374	685	954	1201	1.846
100062		20.00	8.20	1.00		1.55	0.55	0.55	494	918	1295	1648	2.051
100063		20.00	10.20	0.40		0.90	0.50	1.25	53	84	99	106	0.730
100064	C	20.00	10.20	0.50		1.15	0.65	1.30	141	219	254	268	0.912
100065	B	20.00	10.20	0.80		1.35	0.55	0.69	304	547	748	929	1.460
100066		20.00	10.20	0.90		1.45	0.55	0.61	412	754	1050	1323	1.642
100067		20.00	10.20	1.00		1.55	0.55	0.55	544	1010	1425	1815	1.824
100068	A	20.00	10.20	1.10		1.55	0.45	0.41	548	1050	1521	1976	2.007

Disc Springs
碟形弹簧

Disc Springs Specifications 碟形弹簧规格													
Part No.		D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100069	C	22.50	11.20	0.60		1.40	0.80	1.33	240	370	425	444	1.409
100070	B	22.50	11.20	0.80		1.45	0.65	0.81	306	533	707	855	1.878
100071	A	22.50	11.20	1.25		1.75	0.50	0.40	693	1330	1929	2509	2.935
100072		23.00	8.20	0.70		1.50	0.80	1.14	279	448	544	602	1.993
100073		23.00	8.20	0.80		1.55	0.75	0.94	332	560	719	842	2.277
100074		23.00	8.20	0.90		1.60	0.70	0.78	391	687	919	1119	2.561
100075		23.00	8.20	1.00		1.70	0.70	0.70	507	909	1249	1536	2.753
100076		23.00	10.20	0.90		1.65	0.75	0.83	463	802	1058	1273	2.357
100077		23.00	10.20	1.00		1.70	0.70	0.70	538	964	1315	1629	2.619
100078		23.00	10.20	1.25		1.90	0.65	0.92	863	1630	2331	3000	3.172
100079		23.00	12.20	1.00		1.60	0.60	0.60	475	872	1217	1536	2.343
100080		23.00	12.20	1.25		1.85	0.60	0.48	863	1630	2331	3000	2.929
100081		23.00	12.20	1.50		2.00	0.50	0.33	1159	2250	3297	4320	3.514
100082		25.00	10.20	1.00		1.75	0.75	0.75	492	870	1168	1436	3.105
100083	C	25.00	12.20	0.70		1.60	0.90	1.29	331	515	600	635	2.055
100084	B	25.00	12.20	0.90		1.60	0.70	0.78	367	644	862	1050	2.642
100085		25.00	12.20	1.00		1.80	0.80	0.80	585	1021	1359	1647	2.832
100086		25.00	12.20	1.25		1.95	0.70	0.56	848	1573	2232	2814	3.526
100087	A	25.00	12.20	1.50		2.05	0.55	0.37	1040	2007	2926	3821	4.403
100088		28.00	10.20	0.80		1.75	0.95	1.19	348	553	662	723	3.354
100089		28.00	10.20	1.00		1.90	0.90	0.90	512	872	1130	1337	4.191
100090		28.00	10.20	1.25		2.05	0.80	0.64	737	1339	1853	2322	5.238
100091		28.00	10.20	1.50		2.20	0.70	0.47	1003	1899	2723	3511	6.286
100092		28.00	12.20	1.00		1.95	0.95	0.95	590	992	1268	1482	3.914
100093		28.00	12.20	1.25		2.10	0.85	0.68	844	1519	2083	2590	4.893
100094		28.00	12.20	1.50		2.25	0.75	0.50	1149	2159	3077	3949	5.872
100095	C	28.00	14.20	0.80		1.80	1.00	1.25	435	681	801	859	2.872
100096	B	28.00	14.20	1.00		1.80	0.80	0.80	476	832	1107	1342	3.590
100097		28.00	14.20	1.25		2.10	0.85	0.68	907	1634	2240	2785	4.486
100098	A	28.00	14.20	1.50		2.15	0.65	0.43	1033	1970	2841	3680	5.386
100099		31.50	12.20	1.00		2.10	1.10	1.10	587	951	1170	1309	5.035
100100		31.50	12.20	1.25		2.20	0.95	0.76	761	1343	1800	2207	6.268
100101		31.50	12.20	1.50		2.35	0.85	0.57	1033	1912	2697	3413	7.501
100102	C	31.50	16.30	0.80		1.85	1.05	1.31	384	594	687	722	3.583
100103	B	31.50	16.30	1.25		2.15	0.90	0.72	791	1409	1913	2359	5.599
100104		31.50	16.30	1.50		2.40	0.90	0.60	1260	2314	3230	4077	6.717
100105	A	31.50	16.30	1.75		2.45	0.70	0.40	1391	2669	3871	5036	7.839
100106		31.50	16.30	2.00		2.75	0.75	0.38	2199	4239	6173	8054	8.956

Disc Springs Specifications 碟形弹簧规格													
Part No.		D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100107		34.00	12.30	1.00		2.25	1.25	1.25	637	998	1174	1258	6.194
100108		34.00	12.30	1.25		2.35	1.10	0.88	815	1395	1818	2162	7.743
100109		34.00	12.30	1.50		2.50	1.00	0.67	1095	1979	2721	3397	9.280
100110		34.00	14.30	1.25		2.40	1.15	0.92	913	1546	1993	2347	7.330
100111		34.00	14.30	1.50		2.55	1.05	0.70	1224	2192	2990	3704	8.799
100112		34.00	16.30	1.50		2.55	1.05	0.70	1291	2313	3155	3908	8.233
100113		34.00	16.30	2.00		2.85	0.85	0.43	2097	4003	5783	7498	10.978
100114	C	35.50	18.30	0.90		2.05	1.15	1.28	458	712	832	884	5.134
100115	B	35.50	18.30	1.25		2.25	1.00	0.80	731	1277	1699	2059	7.131
100116	A	35.50	18.30	2.00		2.80	0.80	0.40	1864	3576	5187	6747	11.410
100117		40.00	14.30	1.25		2.65	1.40	1.12	904	1459	1780	1984	10.755
100118		40.00	14.30	1.50		2.75	1.25	0.83	1113	1927	2545	3061	12.905
100119		40.00	14.30	1.75		2.85	1.10	0.63	1347	2456	3407	4278	15.056
100120		40.00	14.30	2.00		3.05	1.05	0.53	1800	3363	4769	6096	17.207
100121		40.00	16.30	1.50		2.80	1.30	0.87	1224	2102	2749	3281	12.339
100122		40.00	16.30	1.75		3.10	1.35	0.77	1881	3309	4435	5410	14.396
100123		40.00	16.30	2.00		3.10	1.10	0.55	1972	3663	5169	6580	16.499
100124		40.00	18.30	2.00		3.15	1.15	0.58	2182	4030	5656	7171	15.599
100125	C	40.00	20.40	1.00		2.30	1.30	1.30	565	876	1017	1072	7.299
100126	B	40.00	20.40	1.50		2.65	1.15	0.77	1109	1953	2621	3201	10.948
100127		40.00	20.40	2.00		3.10	1.10	0.55	2175	4041	5701	7258	14.590
100128	A	40.00	20.40	2.25		3.15	0.90	0.40	2336	4481	6500	8456	16.422
100129		40.00	20.40	2.50		3.45	0.95	0.38	3351	6453	9390	12243	18.246
100130	C	45.00	22.40	1.25		2.85	1.60	1.28	1041	1620	1891	2007	11.739
100131	B	45.00	22.40	1.75		3.05	1.30	0.74	1524	2701	3646	4475	16.434
100132	A	45.00	22.40	2.50		3.50	1.00	0.40	2773	5320	7716	10037	23.478
100133		48.00	16.30	1.50		3.00	1.50	1.00	1048	1740	2195	2531	18.850
100134		50.00	18.40	1.25		2.85	1.60	1.28	757	1178	1375	1459	16.657
100135		50.00	18.40	1.50		3.30	1.80	1.20	1379	2184	2606	2837	19.988
100136		50.00	18.40	2.00		3.65	1.65	0.83	2229	3868	5114	6163	26.651
100137		50.00	18.40	2.50		4.15	1.65	0.66	3870	7002	9643	12038	33.314
100138		50.00	18.40	3.00		4.40	1.40	0.47	4602	8772	12652	16389	39.977
100139		50.00	20.40	2.00		3.50	1.50	0.75	1966	3478	4687	5745	25.695
100140		50.00	20.40	2.50		3.85	1.35	0.54	3008	5601	7919	10098	32.118
100141	C	50.00	22.40	2.00		3.60	1.60	0.80	2247	3924	5222	6329	24.639
100142		50.00	22.40	2.50		3.90	1.40	0.56	3261	6044	8510	10817	30.799
100143		50.00	25.40	1.25		2.85	1.60	1.28	854	1328	1550	1646	14.294

Disc Springs
碟形弹簧

Disc Springs Specifications 碟形弹簧规格													
Part No.		De mm	Di mm	t mm	t' mm	lo mm	ho mm	ho/t	s=0.25ho F/N	s=0.50ho F/N	s=0.75ho F/N	s=1.00ho F/N	weight/ 1000pcs kgs
100144	B	50.00	25.40	1.50		3.10	1.60	1.07	1242	2028	2512	2844	17.153
100145		50.00	25.40	2.00		3.40	1.40	0.70	1949	3491	4762	5898	22.871
100146		50.00	25.40	2.25		3.75	1.50	0.67	2905	5249	7217	8997	25.730
100147		50.00	25.40	2.50		3.90	1.40	0.56	3473	6437	9063	11519	28.589
100148	A	50.00	25.40	3.00		4.10	1.10	0.37	4255	8214	11976	15640	34.306
100149	C	56.00	28.50	1.50		3.45	1.95	1.30	1458	2259	2622	2766	21.489
100150	B	56.00	28.50	2.00		3.60	1.60	0.80	1910	3335	4438	5379	28.653
100151		56.00	28.50	2.50		4.10	1.60	0.64	3333	6060	8384	10507	35.816
100152	A	56.00	28.50	3.00		4.30	1.30	0.43	4142	7895	11388	14752	42.979
100153		60.00	20.50	2.00		4.10	2.10	1.05	2318	3802	4730	5380	39.208
100154		60.00	20.50	2.50		4.30	1.80	0.72	3018	5379	7302	9006	49.009
100155		60.00	20.50	3.00		4.70	1.70	0.57	4449	8234	11577	14698	58.811
100156		60.00	25.50	2.50		4.40	1.90	0.76	3447	6081	8175	9997	45.465
100157		60.00	25.50	3.00		4.65	1.65	0.55	4495	8352	11784	15002	54.557
100158		60.00	30.50	2.50		4.30	1.80	0.72	3447	6145	8342	10289	41.149
100159		60.00	30.50	2.75		4.40	1.65	0.60	3880	7125	9945	12554	45.264
100160		60.00	30.50	3.00		4.70	1.70	0.57	5083	9407	13226	16792	57.608
100161		60.00	30.50	3.50		5.00	1.50	0.43	6591	12574	18153	23528	57.608
100162	C	63.00	31.00	1.80		4.15	2.35	1.31	2364	3658	4238	4463	33.381
100163	B	63.00	31.00	2.50		4.25	1.75	0.70	2942	5270	7189	8904	46.362
100164		63.00	31.00	3.00		4.80	1.80	0.60	4891	8981	12536	15825	56.635
100165	A	63.00	31.00	3.50		4.90	1.40	0.40	5399	10359	15025	19545	64.907
100166		70.00	24.50	3.00		5.30	2.30	0.77	5080	8948	12007	14663	79.526
100167		70.00	24.50	3.50		6.00	2.50	0.71	8446	15076	20495	25309	92.781
100168		70.00	25.50	2.00		4.50	2.50	1.25	2408	3771	4437	4755	52.401
100169		70.00	30.50	2.50		4.90	2.40	0.96	3755	6297	8031	9360	61.186
100170		70.00	30.50	3.00		5.10	2.10	0.70	4676	8376	11426	14152	73.423
100171		70.00	35.50	3.00		5.10	2.10	0.70	5028	9007	12287	15218	67.319
100172		70.00	35.50	3.50		5.30	1.80	0.51	6077	11384	16177	20714	78.539
100173		70.00	35.50	4.00		5.80	1.80	0.45	8757	16634	23923	30919	89.759
100176		70.00	40.50	4.00		5.60	1.60	0.40	8391	16099	23351	30376	80.388
100177		70.00	40.50	5.00		6.20	1.20	0.24	11544	22728	33672	44495	100.485
100179	C	71.00	36.00	2.00		4.60	2.60	1.30	2861	4432	5144	5426	46.177
100180	B	71.00	36.00	2.50		4.50	2.00	0.80	2894	5054	6725	8152	57.722
100181	A	71.00	36.00	4.00		5.60	1.60	0.40	7379	14157	20535	26712	92.355
100183		80.00	31.00	2.50		5.30	2.80	1.12	3678	5933	7239	8070	84.305

Disc Springs Specifications 碟形弹簧规格													
Part No.		D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100184		80.00	31.00	3.00		5.50	2.50	0.83	4531	7847	10352	12451	100.598
100185		80.00	31.00	4.00		6.10	2.10	0.53	7319	13677	19394	24791	134.130
100187		80.00	35.50	4.00		6.20	2.20	0.55	8118	15083	21280	27093	126.750
100189		80.00	36.00	3.00		5.70	2.70	0.90	5401	9196	11919	14106	94.401
100190	C	80.00	41.00	2.25		5.20	2.95	1.31	3698	5715	6613	6950	65.460
100191		80.00	41.00	3.00		5.30	2.30	0.77	4450	7838	10518	12844	87.281
100192		80.00	41.00	4.00		6.20	2.20	0.55	8726	16213	22874	29122	116.374
100194	A	80.00	41.00	5.00		6.70	1.70	0.34	11821	22928	33559	43952	145.468
100196	C	90.00	46.00	2.50		5.70	3.20	1.28	4232	6585	7684	8157	92.231
100197	B	90.00	46.00	3.50		6.00	2.50	0.71	5836	10416	14161	17487	129.124
100198	A	90.00	46.00	5.00		7.00	2.00	0.40	11267	21617	31354	40786	184.463
100200		100.00	41.00	4.00		7.20	3.20	0.80	8715	15219	20251	24547	205.153
100202		100.00	41.00	5.00		7.75	2.75	0.55	12345	22937	32361	41201	256.441
100204	C	100.00	51.00	2.70		6.20	3.50	1.30	4779	7410	8609	9091	123.164
100205	B	100.00	51.00	3.50		6.30	2.80	0.80	5624	9823	13070	15843	159.657
100206		100.00	51.00	4.00		7.00	3.00	0.75	8673	15341	20674	25338	182.465
100208		100.00	51.00	5.00		7.80	2.80	0.56	13924	25810	36339	46189	228.081
100210	A	100.00	51.00	6.00		8.20	2.20	0.37	17061	32937	48022	62711	273.698
100212		100.00	51.00	7.00	6.55	9.20	2.20	0.31	27374	52454	75840	115982	298.787
100213	C	112.00	57.00	3.00		6.90	3.90	1.30	5834	9038	10489	11064	171.917
100214	B	112.00	57.00	4.00		7.20	3.20	0.80	7639	13341	17752	21518	229.222
100216	A	112.00	57.00	6.00		8.50	2.50	0.42	15800	30215	43707	56737	343.833
100218		125.00	41.00	4.00		8.20	4.20	1.05	8625	14146	17598	20016	338.100
100219		125.00	51.00	4.00		8.50	4.50	1.13	10096	16265	19817	22060	321.182
100221		125.00	51.00	5.00		8.90	3.90	0.78	13063	22931	30669	37342	401.478
100223		125.00	51.00	6.00		9.40	3.40	0.57	17027	31514	44307	56254	481.773
100225		125.00	61.00	5.00		9.00	4.00	0.80	14615	25526	33965	41170	366.953
100227		125.00	61.00	6.00		9.60	3.60	0.60	19789	36336	50722	64028	440.343
100229		125.00	61.00	8.00	7.50	10.90	2.90	0.36	34434	65305	93577	138144	550.429
100230	C	125.00	64.00	3.50		8.00	4.50	1.29	8514	13231	15416	16335	248.775
100231		125.00	64.00	5.00		8.50	3.50	0.70	12238	21924	29908	37041	355.393
100233	B	125.00	64.00	6.00		9.60	3.60	0.60	20348	37362	52155	65836	426.471
100235		125.00	64.00	7.00	6.55	10.00	3.00	0.43	25528	47615	67216	95795	465.564
100236	A	125.00	64.00	8.00	7.50	10.60	2.60	0.33	31118	59520	85926	111056	529.900
100237		125.00	71.00	6.00		9.30	3.30	0.55	19538	36302	51217	65207	391.515

Disc Springs
碟形弹簧

Disc Springs Specifications 碟形弹簧规格													
Part No.		D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100239		125.00	71.00	8.00	7.40	10.40	2.40	0.30	30867	59149	85494	112411	486.131
100240		125.00	71.00	10.00	9.20	11.80	1.80	0.18	42963	84219	124124	223282	606.848
100241	C	140.00	72.00	3.80		8.70	4.90	1.29	9514	14773	17195	18199	337.734
100242	B	140.00	72.00	5.00		9.00	4.00	0.80	12014	20982	27920	33843	444.388
100244	A	140.00	72.00	8.00	7.50	11.20	3.20	0.40	31903	59967	85251	123137	666.581
100245		150.00	61.00	5.00		10.30	5.30	1.06	15292	25021	31041	35207	578.881
100247		150.00	61.00	6.00		10.80	4.80	0.80	19560	34161	45456	55098	694.658
100248		150.00	71.00	6.00		10.80	4.80	0.80	20721	36189	48155	58370	645.829
100251		150.00	71.00	8.00	7.50	12.00	4.00	0.50	35296	64684	89851	115298	807.237
100252		150.00	61.00	7.00	6.55	11.80	4.80	0.69	30593	53294	70442	89248	758.335
100253		150.00	81.00	8.00	7.50	11.70	3.70	0.46	23766	45331	65426	84211	719.402
100254		150.00	81.00	10.00	9.30	13.00	3.00	0.30	50088	96120	139128	182931	923.710
100255	C	160.00	82.00	4.30		9.90	5.60	1.30	12162	18832	21843	23022	500.409
100257		160.00	82.00	6.00		10.50	4.50	0.75	17203	30431	41008	50260	698.246
100259	A	160.00	82.00	10.00	9.40	13.50	3.50	0.35	50547	96216	138331	204958	1094.000
100260		160.00	82.00	11.00	10.20	14.50	3.50	0.32	66678	127338	183518	284160	1187.000
100261	C	180.00	92.00	4.80		11.00	6.20	1.29	14646	22731	26442	27966	708.337
100263		180.00	92.00	6.00		11.10	5.10	0.85	16558	28552	37502	44930	885.421
100265	A	180.00	92.00	10.00	9.40	14.00	4.00	0.40	46850	88141	125417	180562	1387.000
100266		180.00	92.00	13.00	12.10	16.50	3.50	0.27	84574	163392	237883	381593	1786.000
100269		200.00	82.00	8.00	7.60	14.20	6.20	0.78	35029	60013	78034	95329	1539.000
100270		200.00	82.00	8.50	8.10	14.50	6.00	0.71	38500	67200	89300	112100	1660.000
100271		200.00	82.00	10.00	9.60	15.50	5.50	0.55	51105	93357	129445	173523	1928.000
100272		200.00	82.00	12.00	11.50	16.60	4.60	0.38	66924	127191	182737	266449	2308.000
100273		200.00	82.00	13.00	12.10	16.50	3.50	0.27	62100	120000	174800	280300	2480.000
100274		200.00	92.00	10.00	9.50	15.60	5.60	0.56	55136	100014	137688	183777	1828.000
100275		200.00	92.00	12.00	11.40	16.80	4.80	0.40	73913	139548	199269	287825	2187.000
100276		200.00	92.00	14.00	13.10	18.10	4.10	0.29	95633	184092	267227	418519	2537.000
100277	C	200.00	102.00	5.50		12.50	7.00	1.27	19817	30882	36111	38423	1004.000
100279	B	200.00	102.00	8.00	7.50	13.60	5.60	0.70	33367	57955	76378	96202	1368.000
100280		200.00	102.00	8.30	7.80	14.30	6.00	0.72	40500	70000	91800	114600	1420.000
100281		200.00	102.00	9.00	8.60	14.60	5.60	0.62	44100	78800	107100	138600	1570.000
100282		200.00	102.00	10.00	9.40	15.60	5.60	0.56	58756	106099	145357	194014	1716.000
100283		200.00	102.00	11.00	10.30	15.00	4.00	0.36	49500	93900	134500	198700	1880.000
100284	A	200.00	102.00	12.00	11.25	16.20	4.20	0.35	66983	127401	183020	272297	2053.000
100285		200.00	102.00	14.00	13.10	18.20	4.20	0.30	103781	199476	289181	450249	2381.000

Disc Springs Specifications 碟形弹簧规格													
Part No.		D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100287		200.00	112.00	12.00	11.10	16.20	4.20	0.35	72257	136873	195830	291355	1904.000
100288		200.00	112.00	14.00	12.90	17.50	3.50	0.25	91033	176156	256758	418407	2209.000
100289		200.00	112.00	15.00	14.00	18.00	3.00	0.20	93500	183100	269700	465200	2370.000
100290		200.00	112.00	16.00	14.80	18.80	2.80	0.27	105628	206697	305100	401294	2505.000
100291	C	225.00	112.00	6.50	6.20	13.60	7.10	1.09	23582	37417	44580	48614	1455.000
100292	B	225.00	112.00	8.00	7.50	14.50	6.50	0.81	32870	55412	70749	85127	1761.000
100293		225.00	112.00	9.00	8.45	15.50	6.50	0.72	43600	75300	98800	123300	1980.000
100294		225.00	112.00	10.00	9.40	16.20	6.20	0.62	52800	93900	126700	164800	2200.000
100295		225.00	112.00	10.80	10.00	16.50	5.70	0.53	58100	105200	144400	197000	2350.000
100296	A	225.00	112.00	12.00	11.25	17.00	5.00	0.42	64497	120738	171016	244783	2641.000
100297		225.00	112.00	16.00	14.90	20.50	4.50	0.28	128407	247489	359590	569897	3498.000
100298		250.00	102.00	10.00	9.60	18.00	8.00	0.80	56867	97282	126387	152967	3019.000
100299		250.00	102.00	12.00	11.50	19.00	7.00	0.58	73563	133130	182962	242024	3613.000
100300	C	250.00	127.00	7.00	6.70	14.80	7.80	1.11	26895	42527	50466	54733	1915.000
100301		250.00	127.00	7.50	7.00	16.50	9.00	1.20	41900	64400	73500	75100	2000.000
100302		250.00	127.00	8.00	7.50	16.00	8.00	1.00	38439	61836	74819	83455	2144.000
100303		250.00	127.00	9.00	8.45	16.60	7.60	0.84	45900	76800	97300	115600	2420.000
100304		250.00	127.00	9.20	8.60	17.40	8.20	0.89	55200	91000	113400	132000	2460.000
100305	B	250.00	127.00	10.00	9.40	17.00	7.00	0.70	51871	90206	119053	149964	2687.000
100306		250.00	127.00	10.50	9.90	18.00	7.50	0.71	64800	112500	148100	185500	2830.000
100307		250.00	127.00	11.00	10.40	18.80	7.80	0.71	77000	133900	176900	222000	2970.000
100308		250.00	127.00	12.00	11.25	19.30	7.30	0.61	87633	156021	210806	275879	3216.000
100309		250.00	127.00	13.00	12.20	19.60	6.60	0.51	93900	171800	238300	325800	3490.000
100310		250.00	127.00	13.50	12.60	19.60	6.10	0.45	94200	174400	244700	345300	3600.000
100311	A	250.00	127.00	14.00	13.10	19.60	5.60	0.40	93239	175145	248828	360229	3745.000
100312		250.00	127.00	14.50	13.60	20.00	5.50	0.38	100400	189700	270800	395600	3890.000
100313		250.00	127.00	15.00	14.10	21.00	6.00	0.40	122500	230500	327900	472100	4030.000
100314		250.00	127.00	16.00	15.00	21.80	5.80	0.36	140491	267295	383017	570770	4260.000
100315		250.00	127.00	16.80	15.65	22.00	5.20	0.31	142800	273500	395400	611600	4470.000
100316		250.00	127.00	17.50	16.35	22.00	4.50	0.26	136000	263600	384900	619500	4670.000
100317		250.00	127.00	18.50	17.30	23.00	4.50	0.24	159700	310400	454300	739800	4950.000
100318		270.00	127.00	10.65	10.00	18.00	7.35	0.69	53800	93700	123900	156700	3500.000
100319		270.00	142.00	22.00		26.90	4.90	0.22	248700	490700	728300	963500	7150.000
100320		280.00	127.00	12.00	11.40	21.40	9.40	0.78	95400	163100	211600	258300	4380.000
100321		280.00	127.00	19.00	18.00	25.00	6.00	0.32	178200	342600	496800	741600	6910.000
100322		280.00	142.00	12.00	11.30	21.00	9.00	0.75	95100	163400	212900	262900	4060.000
100323		280.00	142.00	15.00	14.10	21.40	6.40	0.43	105700	197600	279500	396800	5060.000
100324		280.00	142.00	16.60	15.60	23.25	6.65	0.40	146600	275800	392300	564800	5600.000
100325		280.00	142.00	17.45	16.40	23.90	6.45	0.37	162300	307600	440400	645100	5890.000
100326		280.00	142.00	18.00	16.90	24.00	6.00	0.33	162600	310600	447900	672000	6070.000
100327		280.00	142.00	18.90	17.80	24.60	5.70	0.30	175800	338300	491000	748700	6390.000

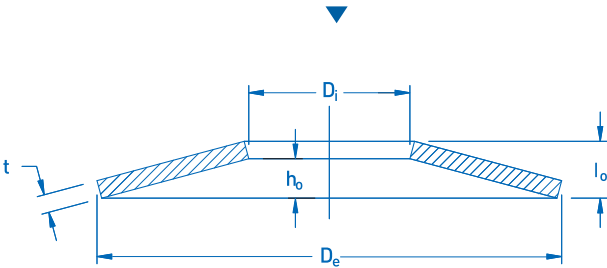
Disc Springs
碟形弹簧

Disc Springs Specifications 碟形弹簧规格												
Part No.	De mm	Di mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100328	280.00	142.00	20.30	19.10	25.40	5.10	0.25	190600	370300	542100	862700	6860.000
100329	280.00	142.00	22.00	20.65	26.35	4.35	0.20	202800	397600	586300	996900	7410.000
100330	280.00	152.00	12.80	11.90	19.80	7.00	0.55	82100	148000	202500	273200	4060.000
100331	280.00	152.00	15.00	14.00	21.40	6.40	0.43	111300	207500	292700	418700	4770.000
100332	280.00	152.00	18.50	17.40	23.60	5.10	0.28	152700	295400	430600	671500	5930.000
100333	300.00	127.00	12.00	11.30	21.00	9.00	0.75	76300	131000	170700	210800	5150.000
100334	300.00	127.00	13.00	12.30	20.50	7.50	0.58	70900	127800	174900	231100	5600.000
100335	300.00	127.00	14.00	13.30	21.00	7.00	0.50	78300	144200	201400	273700	6060.000
100336	300.00	127.00	15.30		22.80	7.50	0.49	104600	197000	281200	361400	6970.000
100337	300.00	127.00	16.00	15.20	24.30	8.30	0.52	140200	257000	357400	482200	6920.000
100338	300.00	127.00	17.00	16.10	23.80	6.80	0.40	128400	242200	345500	492600	7330.000
100339	300.00	127.00	17.40	16.45	22.65	5.25	0.30	101100	194800	283000	428200	7490.000
100340	300.00	152.00	8.50	8.25	16.80	8.30	0.98	31300	51500	64100	73700	3400.000
100341	300.00	152.00	10.00	9.40	20.00	10.00	1.00	64900	104500	126600	141500	3880.000
100342	300.00	152.00	12.00	11.30	21.00	9.00	0.75	82800	142200	185300	228900	4660.000
100343	300.00	152.00	13.00	12.20	22.00	9.00	0.69	101200	176200	232800	294200	5030.000
100344	300.00	152.00	14.00	13.20	22.00	8.00	0.57	102500	184700	252700	335200	5440.000
100345	300.00	152.00	14.50	13.60	22.00	7.50	0.52	103400	188600	260900	355300	5610.000
100346	300.00	152.00	15.00	14.10	23.00	8.00	0.53	123100	223900	308900	417100	5820.000
100347	300.00	152.00	15.50	14.60	23.50	8.00	0.52	134100	245200	339900	461800	6020.000
100348	300.00	152.00	16.10	15.10	23.70	7.60	0.47	139200	257000	359500	500100	6230.000
100349	300.00	152.00	16.50		23.00	6.50	0.39	117500	225600	327600	426400	6810.000
100350	300.00	152.00	17.00	16.00	24.40	7.40	0.44	155600	290300	410000	578800	6600.000
100351	300.00	152.00	18.00	16.80	25.00	7.00	0.39	170900	321700	457700	669000	6930.000
100352	300.00	152.00	18.50	17.40	25.00	6.50	0.35	167900	319600	459500	679600	7180.000
100353	300.00	152.00	19.50	18.30	26.20	6.70	0.34	202200	385200	554200	826600	7550.000
100354	300.00	152.00	20.00	18.80	25.50	5.50	0.28	173000	334500	487600	761900	7750.000
100355	300.00	152.00	20.50	19.30	26.50	6.00	0.29	204700	394700	573800	881200	7960.000
100356	300.00	182.00	12.00	11.10	18.00	6.00	0.50	54400	99100	136900	189600	3890.000
100357	320.00	172.00	8.10	7.60	16.30	8.20	1.01	26200	42000	50600	56200	3410.000
100358	320.00	172.00	9.00	8.50	19.00	10.00	1.11	47000	73900	87100	93500	3820.000
100359	320.00	172.00	13.00	12.20	20.00	7.00	0.54	64400	117000	161000	217100	5480.000
100360	320.00	172.00	15.00	14.10	21.00	6.00	0.40	77600	146100	207900	299300	6330.000
100361	340.00	172.00	9.20	8.65	19.40	10.20	1.11	43700	68600	80700	86300	4590.000
100362	340.00	172.00	9.50	8.90	20.80	11.30	1.19	57000	87900	100800	104000	4720.000
100363	340.00	172.00	10.50	9.90	22.50	12.00	1.14	78300	122200	142500	150800	5250.000
100364	340.00	172.00	11.00	10.40	22.40	11.40	1.04	78300	125400	151000	167000	5520.000
100365	340.00	172.00	11.50	10.80	22.90	11.40	0.99	87000	140300	170400	191000	5730.000
100366	340.00	172.00	12.50	11.80	23.00	10.50	0.84	90800	152500	194000	231400	6260.000
100367	340.00	172.00	13.50	12.70	23.50	10.00	0.74	101300	174300	227600	282100	6740.000
100368	340.00	172.00	13.70	12.90	24.30	10.60	0.77	115000	196200	253900	310700	6840.000

Disc Springs Specifications 碟形弹簧规格												
Part No.	D _e mm	D _i mm	t mm	t' mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100369	340.00	172.00	14.20	13.30	24.40	10.20	0.72	118800	205200	268900	336100	7050.000
100370	340.00	172.00	14.60	13.70	25.10	10.50	0.72	132700	229400	300900	376100	7270.000
100371	340.00	172.00	15.30	14.40	24.70	9.40	0.61	126200	224700	303700	396100	7640.000
100372	340.00	172.00	15.80	14.80	25.50	9.70	0.61	144000	255900	345200	450700	7850.000
100373	340.00	172.00	16.20	15.20	25.60	9.40	0.58	146700	263200	358400	474600	8060.000
100374	340.00	172.00	17.00	16.00	25.30	8.30	0.49	140300	258300	360400	496100	8490.000
100375	340.00	172.00	17.30	16.30	26.10	8.80	0.51	158700	290800	403900	550500	8640.000
100376	340.00	172.00	18.00	16.90	26.00	8.00	0.44	156400	291000	409800	577300	8960.000
100377	340.00	172.00	20.00	18.70	28.00	8.00	0.40	209500	393500	558900	809800	9920.000
100378	340.00	172.00	22.00	20.60	28.00	6.00	0.27	195500	377900	550600	869300	10900.000
100379	360.00	182.00	15.50	14.60	23.50	8.00	0.52	93000	170000	235700	320300	8680.000
100380	360.00	182.00	20.00	18.80	28.30	8.30	0.42	194800	365200	518000	739800	11200.000
100381	360.00	182.00	21.00	19.70	28.00	7.00	0.33	182000	347500	501000	752700	11700.000
100382	360.00	182.00	21.50	20.20	29.50	8.00	0.37	227700	431200	617000	902900	12000.000
100383	360.00	182.00	23.00	21.60	30.20	7.20	0.31	243300	466700	675700	1027000	12800.000
100384	370.00	202.00	25.00	23.20	31.40	6.40	0.26	271200	525000	765700	1252000	13700.000
100385	370.00	202.00	26.00	24.20	32.80	6.80	0.26	324500	628000	915500	1480000	14300.000
100386	380.00	152.00	19.00	18.00	29.00	10.00	0.53	174600	319100	442400	596100	13500.000
100387	380.00	192.00	13.50	12.70	26.20	12.70	0.94	120300	196600	242400	277600	8420.000
100388	380.00	192.00	25.00	23.40	33.00	8.00	0.32	313100	599300	865600	1318000	15500.000
100389	380.00	202.00	12.00	11.50	25.00	13.00	1.08	98100	156300	187300	205700	7350.000
100390	380.00	202.00	15.00	14.10	27.00	12.00	0.80	144400	244600	313900	379900	9000.000
100391	380.00	212.00	18.00	16.70	27.00	9.00	0.50	158000	288300	398700	551200	10200.000
100392	400.00	202.00	10.00	9.60	22.00	12.00	1.20	50100	77900	90400	95200	7050.000
100393	400.00	202.00	12.00	11.30	26.50	14.50	1.21	107500	165400	189200	194700	8300.000
100394	400.00	202.00	14.00	13.20	27.00	13.00	0.93	122400	200800	248900	286700	9700.000
100395	400.00	202.00	16.00	15.10	28.00	12.00	0.75	146600	252100	328800	406200	11100.000
100396	400.00	202.00	19.00	17.90	30.00	11.00	0.58	198900	357700	488200	645800	13200.000
100397	400.00	202.00	20.30	19.10	31.10	10.80	0.53	230900	420300	580100	783300	14000.000
100398	400.00	202.00	21.20	19.90	31.40	10.20	0.48	240700	443500	619200	857100	14600.000
100399	400.00	202.00	22.50	21.20	32.50	10.00	0.44	274900	512000	722000	1014000	15600.000
100400	400.00	202.00	30.00	28.20	37.20	7.20	0.24	422500	822700	1206000	1945000	20700.000
100401	440.00	212.00	18.50		32.00	13.50	0.73	190400	338500	458400	564300	17000.000
100402	440.00	252.00	25.00	23.20	33.00	8.00	0.32	257500	491700	708500	1094000	18600.000
100403	450.00	202.00	25.50	24.00	34.10	8.60	0.34	241500	461200	665000	991000	23900.000
100404	450.00	252.00	21.00	19.50	33.00	12.00	0.57	251200	449800	610900	814900	16700.000
100405	450.00	252.00	25.00	23.30	33.80	8.80	0.35	269500	511400	733000	1099000	20000.000
100406	470.00	237.00	33.00	31.00	42.00	9.00	0.27	516100	999000	1456000	2282000	31500.000
100407	480.00	252.00	20.30	19.00	33.00	12.70	0.63	207400	367200	493500	641300	19600.000
100408	480.00	252.00	20.70		36.60	15.90	0.77	285500	502600	674300	823100	21300.000
100409	500.00	202.00	37.00	35.00	44.40	7.40	0.20	466200	914900	1350000	2233000	45100.000
100410	500.00	242.00	32.00	30.00	41.00	9.00	0.28	408400	788400	1147000	1794000	35400.000
100411	500.00	252.00	19.00		34.50	15.50	0.82	200100	348100	461300	557200	21900.000



Corrosion-Resistant Disc Springs Specifications
耐腐蚀碟形弹簧规格



Corrosion-Resistant Disc Springs Specifications 耐腐蚀碟形弹簧规格

Part No.	De mm	Di mm	t mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100600	6.00	3.20	0.30	0.45	0.15	0.50	41	77	110	141	0.047
100601	8.00	3.20	0.20	0.40	0.20	1.00	11	19	24	27	0.066
100602	8.00	3.20	0.30	0.55	0.25	0.83	42	73	96	116	0.098
100603	8.00	3.20	0.40	0.55	0.15	0.38	45	87	126	165	0.131
100604	8.00	3.20	0.50	0.70	0.20	0.40	118	227	330	429	0.166
100605	8.00	4.20	0.20	0.45	0.25	1.25	20	31	36	39	0.057
100606	8.00	4.20	0.30	0.50	0.20	0.67	34	61	84	105	0.085
100607	8.00	4.20	0.40	0.60	0.20	0.50	72	136	193	248	0.113
100608	10.00	3.20	0.30	0.65	0.35	1.17	47	75	91	100	0.165
100609	10.00	3.20	0.40	0.70	0.30	0.75	69	123	165	203	0.220
100610	10.00	3.20	0.50	0.70	0.20	0.40	73	140	203	264	0.274
100611	10.00	4.20	0.40	0.70	0.30	0.75	73	129	174	214	0.202
100612	10.00	4.20	0.50	0.70	0.20	0.40	77	148	214	278	0.252
100613	10.00	5.20	0.25	0.55	0.30	1.20	28	44	53	58	0.112
100614	10.00	5.20	0.40	0.65	0.25	0.63	62	113	157	197	0.179
100615	10.00	5.20	0.50	0.70	0.20	0.40	85	163	237	308	0.223
100616	12.00	4.20	0.40	0.80	0.40	1.00	79	130	165	190	0.309
100617	12.00	4.20	0.50	0.80	0.30	0.60	86	158	220	278	0.386
100618	12.00	4.20	0.60	0.85	0.25	0.42	111	213	308	400	0.463
100619	12.00	5.20	0.50	0.80	0.30	0.60	91	166	232	293	0.357
100620	12.00	5.20	0.60	0.85	0.25	0.42	118	225	325	422	0.429
100621	12.00	6.20	0.50	0.85	0.35	0.70	123	221	301	373	0.323
100622	12.00	6.20	0.60	0.85	0.25	0.42	128	245	355	460	0.387
100623	12.50	5.20	0.50	0.85	0.35	0.70	103	184	251	311	0.395
100624	12.50	6.20	0.35	0.80	0.45	1.29	77	120	140	148	0.235

Corrosion-Resistant Disc Springs

耐腐蚀碟形弹簧

Corrosion-Resistant Disc Springs Specifications 耐腐蚀碟形弹簧规格											
Part No.	De mm	Di mm	t mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100625	12.50	6.20	0.50	0.85	0.35	0.70	111	198	271	335	0.361
100626	12.50	6.20	0.70	0.95	0.25	0.36	178	344	503	657	0.504
100627	14.00	7.20	0.35	0.80	0.45	1.29	63	98	114	120	0.310
100628	14.00	7.20	0.50	0.90	0.40	0.80	111	194	258	312	0.442
100629	14.00	7.20	0.80	1.05	0.25	0.31	213	414	608	799	0.706
100630	15.00	5.20	0.40	0.95	0.50	1.38	93	142	162	167	0.486
100631	15.00	5.20	0.50	1.00	0.50	1.00	123	203	257	296	0.607
100632	15.00	5.20	0.60	1.05	0.45	0.75	158	279	376	460	0.728
100633	15.00	5.20	0.70	1.10	0.40	0.57	197	365	512	650	0.849
100634	15.00	6.20	0.50	1.00	0.50	1.00	127	212	267	308	0.572
100635	15.00	6.20	0.60	1.00	0.40	0.67	137	248	341	426	0.687
100636	15.00	6.20	0.70	1.05	0.35	0.50	172	323	461	591	0.801
100637	15.00	8.20	0.70	1.00	0.30	0.43	164	312	451	584	0.677
100638	15.00	8.20	0.80	1.10	0.30	0.38	238	459	668	872	0.773
100639	16.00	8.20	0.40	0.90	0.50	1.25	77	121	142	153	0.464
100640	16.00	8.20	0.60	1.05	0.45	0.75	159	281	378	464	0.695
100641	16.00	8.20	0.70	1.05	0.35	0.50	167	313	446	573	0.881
100642	16.00	8.20	0.80	1.10	0.30	0.38	200	386	561	733	0.926
100643	16.00	8.20	0.90	1.20	0.30	0.33	280	543	796	1043	1.042
100644	18.00	6.20	0.40	1.00	0.60	1.50	78	116	128	126	0.702
100645	18.00	6.20	0.50	1.10	0.60	1.20	120	190	226	246	0.878
100646	18.00	6.20	0.60	1.20	0.60	1.00	176	293	369	426	1.053
100647	18.00	6.20	0.70	1.25	0.55	0.79	218	382	510	620	1.228
100648	18.00	6.20	0.80	1.30	0.50	0.63	264	482	669	841	1.403
100649	18.00	8.20	0.50	1.10	0.60	1.20	129	205	244	266	0.789
100650	18.00	8.20	0.70	1.20	0.50	0.71	203	362	492	608	1.104
100651	18.00	8.20	0.80	1.25	0.45	0.56	246	457	643	816	1.261
100652	18.00	8.20	1.00	1.35	0.35	0.35	335	649	948	1240	1.576
100653	18.00	9.20	0.45	1.05	0.60	1.33	111	171	197	206	0.662
100654	18.00	9.20	0.70	1.20	0.50	0.71	215	384	522	645	1.029
100655	18.00	9.20	1.00	1.35	0.35	0.35	356	689	1006	1317	1.469
100656	20.00	8.20	0.50	1.15	0.65	1.30	118	183	213	225	1.029
100657	20.00	8.20	0.60	1.30	0.70	1.17	198	316	380	418	1.226
100658	20.00	8.20	0.70	1.35	0.65	0.93	241	408	524	616	1.430
100659	20.00	8.20	0.80	1.40	0.60	0.75	291	514	693	849	1.634
100660	20.00	8.20	0.90	1.45	0.55	0.61	345	632	880	1108	1.838
100661	20.00	8.20	1.00	1.45	0.45	0.45	352	669	962	1244	2.042

Corrosion-Resistant Disc Springs Specifications 耐腐蚀碟形弹簧规格

Part No.	D _e mm	D _i mm	t mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100662	20.00	10.20	0.50	1.15	0.65	1.30	130	202	234	247	0.910
100663	20.00	10.20	0.60	1.20	0.60	1.00	163	271	342	394	1.098
100664	20.00	10.20	0.80	1.35	0.55	0.69	281	504	690	857	1.454
100665	20.00	10.20	0.90	1.40	0.50	0.56	333	619	872	1109	1.635
100666	20.00	10.20	1.00	1.40	0.40	0.40	336	645	936	1217	1.817
100667	20.00	10.20	1.10	1.50	0.40	0.36	440	850	1240	1620	1.997
100668	20.00	10.20	1.25	1.55	0.30	0.24	463	911	1349	1783	2.269
100669	20.00	10.20	1.50	1.75	0.25	0.17	654	1297	1934	2568	2.721
100670	22.50	11.20	0.60	1.40	0.80	1.33	222	341	392	410	1.406
100671	22.50	11.20	0.80	1.45	0.65	0.81	283	492	653	789	1.873
100672	22.50	11.20	1.25	1.65	0.40	0.32	494	961	1411	1851	2.924
100673	23.00	8.20	0.70	1.50	0.80	1.14	258	414	501	555	1.987
100674	23.00	8.20	0.80	1.55	0.75	0.94	306	517	663	777	2.271
100675	23.00	8.20	0.90	1.60	0.70	0.78	361	633	848	1033	2.554
100676	23.00	8.20	1.00	1.60	0.60	0.60	375	689	962	1214	2.838
100677	23.00	10.20	0.90	1.55	0.65	0.72	341	608	825	1017	2.352
100678	23.00	10.20	1.00	1.60	0.60	0.60	398	731	1020	1288	2.613
100679	23.00	10.20	1.25	1.70	0.45	0.36	512	989	1444	1887	3.264
100680	23.00	12.20	1.00	1.60	0.60	0.60	438	804	1122	1417	2.337
100681	23.00	12.20	1.25	1.65	0.40	0.32	492	958	1406	1845	2.919
100682	23.00	12.20	1.50	1.85	0.35	0.23	722	1423	2110	2789	3.501
100683	25.00	10.20	1.00	1.70	0.70	0.70	408	732	998	1236	3.205
100684	25.00	12.20	0.70	1.60	0.90	1.29	305	475	553	586	2.052
100685	25.00	12.20	0.90	1.60	0.70	0.78	338	594	795	969	2.637
100686	25.00	12.20	1.00	1.65	0.65	0.65	394	715	987	1234	2.929
100687	25.00	12.20	1.25	1.75	0.50	0.40	512	983	1425	1854	3.660
100688	25.00	12.20	1.50	1.95	0.45	0.30	763	1490	2193	2884	4.389
100689	28.00	10.20	0.80	1.75	0.95	1.19	321	510	610	667	3.351
100690	28.00	10.20	1.00	1.90	0.90	0.90	472	804	1042	1234	4.180
100691	28.00	10.20	1.25	1.95	0.70	0.56	565	1047	1474	1874	5.232
100692	28.00	10.20	1.50	2.10	0.60	0.40	767	1471	2134	2775	6.227
100693	28.00	12.20	1.00	1.95	0.95	0.95	544	915	1170	1367	3.911
100694	28.00	12.20	1.25	1.95	0.70	0.56	593	1099	1548	1967	4.887
100695	28.00	12.20	1.50	2.05	0.55	0.37	727	1403	2045	2671	5.862
100696	28.00	14.20	0.80	1.80	1.00	1.25	401	628	739	792	2.870
100697	28.00	14.20	1.00	1.80	0.80	0.80	439	767	1021	1238	3.586
100698	28.00	14.20	1.25	1.90	0.65	0.52	578	1082	1535	1964	4.480

Corrosion-Resistant Disc Springs

耐腐蚀碟形弹簧

Corrosion-Resistant Disc Springs Specifications 耐腐蚀碟形弹簧规格											
Part No.	D _e mm	D _i mm	t mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/1000pcs kgs
100699	28.00	14.20	1.50	2.05	0.55	0.37	781	1508	2199	2872	5.373
100700	31.50	12.20	1.00	2.10	1.10	1.10	541	877	1076	1207	5.191
100701	31.50	12.20	1.25	2.15	0.90	0.72	646	1152	1564	1929	6.486
100702	31.50	12.20	1.50	2.25	0.75	0.50	808	1519	2164	2777	7.781
100703	31.50	16.30	0.80	1.85	1.05	1.31	354	548	634	666	3.577
100704	31.50	16.30	1.25	2.00	0.75	0.60	560	1029	1437	1814	5.584
100705	31.50	16.30	1.50	2.15	0.65	0.43	763	1454	2097	2716	6.698
100706	31.50	16.30	1.75	2.30	0.55	0.31	971	1892	2779	3649	7.811
100707	31.50	16.30	2.00	2.50	0.50	0.25	1289	2534	3750	4952	8.923
100708	34.00	12.30	1.00	2.25	1.25	1.02	588	920	1083	1160	6.187
100709	34.00	12.30	1.25	2.35	1.10	0.88	752	1287	1677	1994	7.732
100710	34.00	12.30	1.50	2.40	0.90	0.60	872	1600	2234	2820	9.275
100711	34.00	14.30	1.25	2.30	1.05	0.84	723	1250	1646	1977	7.321
100712	34.00	14.30	1.50	2.35	0.85	0.57	837	1549	2178	2765	8.783
100713	34.00	16.30	1.50	2.30	0.80	0.53	815	1519	2151	2746	8.216
100714	34.00	16.30	2.00	2.60	0.60	0.30	1293	2523	3713	4882	10.946
100715	35.50	18.30	0.90	2.05	1.15	1.28	422	657	767	815	5.132
100716	35.50	18.30	1.25	2.25	1.00	0.72	674	1177	1567	1899	7.124
100717	35.50	18.30	2.00	2.65	0.65	0.33	1352	2628	3855	5056	11.385
100718	40.00	14.30	1.25	2.65	1.40	1.12	834	1346	1642	1830	10.752
100719	40.00	14.30	1.50	2.75	1.25	0.83	1028	1779	2348	2824	12.899
100720	40.00	14.30	2.00	2.90	0.90	0.45	1365	2592	3729	4819	17.189
100721	40.00	16.30	1.50	2.70	1.20	0.80	992	1732	2304	2793	12.332
100722	40.00	16.30	2.00	2.90	0.90	0.45	1406	2671	3842	4966	16.433
100723	40.00	18.30	2.00	2.85	0.85	0.43	1367	2610	3770	4888	15.584
100724	40.00	20.40	1.00	2.30	1.30	1.30	521	808	938	989	7.300
100725	40.00	20.40	1.50	2.60	1.10	0.73	955	1697	2296	2824	10.942
100726	40.00	20.40	2.00	2.80	0.80	0.40	1345	2580	3743	4869	14.580
100727	40.00	20.40	2.25	2.95	0.70	0.31	1613	3143	4618	6066	16.397
100728	40.00	20.40	2.50	3.15	0.65	0.26	2017	3961	5856	7726	18.212
100729	45.00	22.40	1.25	2.90	1.65	1.32	1023	1578	1822	1909	11.746
100730	45.00	22.40	1.75	2.95	1.20	0.69	1247	2241	3068	3810	16.434
100731	45.00	22.40	2.50	3.35	0.85	0.34	2116	4105	6008	7869	23.457
100732	50.00	18.40	1.25	2.85	1.60	1.28	698	1086	1268	1346	16.679
100733	50.00	18.40	1.50	3.30	1.80	1.20	1272	2015	2404	2616	20.011
100734	50.00	18.40	2.00	3.45	1.45	0.73	1680	2990	4054	4996	26.669
100735	50.00	18.40	2.50	3.65	1.15	0.46	2203	4176	5996	7738	33.323
100736	50.00	20.40	2.00	3.40	1.40	0.70	1634	2927	3993	4945	25.710
100737	50.00	20.40	2.50	3.60	1.10	0.44	2138	4070	5864	7589	32.123
100738	50.00	22.40	2.00	3.30	1.30	0.65	1515	2747	3792	4743	24.652
100739	50.00	22.40	2.50	3.50	1.00	0.40	1969	3777	5478	7126	30.800
100740	50.00	25.40	1.25	2.85	1.60	1.28	787	1225	1430	1518	14.311
100741	50.00	25.40	1.50	3.10	1.60	1.07	1145	1871	2317	2623	17.168
100742	50.00	25.40	2.00	3.30	1.30	0.65	1613	2926	4039	5051	22.878

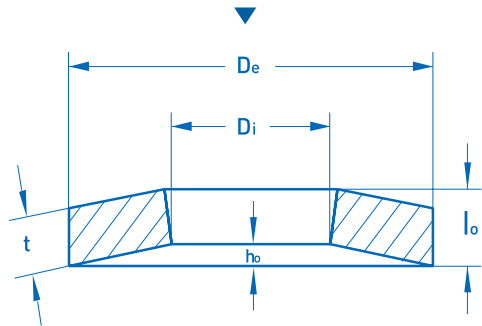
Corrosion-Resistant Disc Springs Specifications 耐腐蚀碟形弹簧规格											
Part No.	D _e mm	D _i mm	t mm	l ₀ mm	h ₀ mm	h ₀ /t	s=0.25h ₀ F/N	s=0.50h ₀ F/N	s=0.75h ₀ F/N	s=1.00h ₀ F/N	weight/ 1000pcs kgs
100743	50.00	25.40	2.50	3.50	1.00	0.40	2096	4022	5834	7589	28.582
100780	50.00	18.40	3.00	4.20	1.20	0.40	3855	7395	10727	13953	40.722
100781	50.00	25.40	3.00	4.10	1.10	0.37	3925	7576	11046	14425	34.945
100744	56.00	28.50	1.50	3.45	1.95	1.30	1345	2084	2419	2551	21.495
100745	56.00	28.50	2.00	3.60	1.60	0.80	1761	3076	4093	4962	28.646
100782	56.00	28.50	3.00	4.30	1.30	0.43	3821	7282	10504	13606	43.779
100746	60.00	20.50	2.00	4.10	2.10	1.05	2138	3507	4363	4962	39.235
100747	60.00	20.50	2.50	4.05	1.55	0.62	2239	4092	5687	7153	49.027
100748	60.00	25.50	2.50	4.10	1.60	0.64	2463	4479	6196	7765	45.471
100749	60.00	30.50	2.50	4.00	1.50	0.60	2444	4488	6265	7908	41.157
100783	60.00	20.50	3.00	4.80	1.80	0.60	4436	8146	11371	14354	59.906
100784	60.00	25.50	3.00	4.65	1.65	0.55	4146	7703	10960	13837	55.573
100785	60.00	30.50	3.00	4.70	1.70	0.57	4688	8676	12199	15488	50.298
100786	60.00	30.50	3.50	4.90	1.40	0.40	5595	10735	15570	20254	58.681
100750	63.00	31.00	1.80	4.10	2.30	1.28	2086	3248	3792	4028	33.419
100751	63.00	31.00	2.50	4.15	1.65	0.66	2489	4504	6202	7743	46.389
100787	63.00	31.00	3.00	4.70	1.70	0.57	4172	7722	10858	13785	56.671
100788	63.00	31.00	3.50	4.90	1.40	0.40	4980	9554	13858	24016	66.116
100752	70.00	25.50	2.00	4.50	2.50	1.25	2221	3478	4092	4386	52.479
100753	70.00	30.50	2.50	4.70	2.20	0.88	2984	5106	6653	7913	61.266
100789	70.00	24.50	3.00	5.30	2.30	0.77	4685	8253	11075	13524	81.007
100790	70.00	30.50	3.00	5.10	2.10	0.70	4312	7726	10539	13053	74.790
100791	70.00	35.50	3.00	5.10	2.10	0.70	4637	8308	11333	14036	68.573
100792	70.00	24.50	3.50	5.50	2.00	0.57	5704	1546	14812	18791	94.509
100793	70.00	35.50	3.50	5.30	1.80	0.51	5605	10500	14921	19105	80.002
100794	70.00	35.50	4.00	5.60	1.60	0.40	7003	13435	19487	32699	91.431
100795	70.00	40.50	4.00	5.50	1.50	0.38	7172	13825	20132	34473	81.885
100796	70.00	40.50	5.00	6.20	1.20	0.24	10648	20963	31057	41039	102.356
100754	71.00	36.00	2.00	4.60	2.60	1.30	2639	4088	4744	5004	46.249
100755	71.00	36.00	2.50	4.50	2.00	0.80	2669	4662	6203	7519	57.789
100798	71.00	36.00	4.00	5.60	1.60	0.40	6806	13058	18940	24637	94.074
100756	80.00	31.00	2.50	5.30	2.80	1.12	3393	5472	6667	7443	84.001
100757	80.00	41.00	2.25	5.20	2.95	1.31	3410	5271	6099	6410	65.586
100799	80.00	31.00	3.00	5.50	2.50	0.83	4179	7237	9548	11484	102.471
100800	80.00	36.00	3.00	5.70	2.70	0.90	4982	8481	10993	13011	96.159
100801	80.00	41.00	3.00	5.30	2.30	0.77	4104	7229	9701	11847	88.906
100802	80.00	31.00	4.00	6.10	2.10	0.53	6750	12615	17888	22866	136.628
100803	80.00	35.50	4.00	6.20	2.20	0.55	7487	13912	19627	24989	129.111
100804	80.00	41.00	4.00	6.20	2.20	0.55	8048	14953	21097	26860	118.541
100805	80.00	41.00	5.00	6.70	1.70	0.34	10903	21148	30953	40538	148.177
100758	90.00	46.00	2.50	5.70	3.20	1.28	3903	6073	7087	7524	92.370
100807	90.00	46.00	3.50	6.00	2.50	0.71	5382	9607	13061	16129	131.528
100808	90.00	46.00	5.00	7.00	2.00	0.40	10392	19938	28919	37618	187.898

Flange Bolting Washers H13(UNS20813)
法兰螺栓预紧垫圈 H13(UNS20813)

6



Flange Bolting Washers Specifications
法兰螺栓预紧垫圈规格



The Specifications and Parameters are based on material H13(UNS20813).

下表中的规格和参数基于材质 H13 (UNS20813).

Flange Bolting Washers Specifications(H13<UNS20813>)								
Part No.	Bolt Size mm	D _e mm	D _i mm	t mm	l ₀ mm	h ₀ mm	Flat laod N	Torque N.m
101700	10	18.24	10.41	2.16	2.39	0.23	10,818	21.6
101701	10	18.24	10.41	2.64	2.82	0.18	16,223	32.4
101702	10	18.24	10.41	3.02	3.20	0.18	21,632	43.3
101703	12	21.69	12.40	2.62	2.90	0.28	15,769	37.8
101704	12	21.69	12.40	3.18	3.40	0.22	23,656	56.7
101705	12	21.69	12.40	3.66	3.86	0.20	31,542	75.7
101706	14	25.27	14.40	3.05	3.35	0.30	21,658	60.6
101707	14	25.27	14.40	3.71	3.96	0.25	32,503	91
101708	14	25.27	14.40	4.27	4.50	0.23	43,317	121.2
101709	16	29.16	16.36	3.61	3.99	0.38	30,159	81.4
101710	16	29.16	16.36	4.39	4.70	0.31	45,238	122.0

Flange Bolting Washers H13(UNS20813) 法兰螺栓预紧垫圈 H13(UNS20813)

Flange Bolting Washers Specifications(H13<UNS20813>)								
Part No.	Bolt Size mm	D _e mm	D _i mm	t mm	l ₀ mm	h ₀ mm	Flat laod N	Torque N.m
101711	16	29.16	16.36	5.11	5.38	0.27	60,318	162.7
101712	18	32.64	18.39	4.19	4.57	0.38	41,324	147.8
101713	18	32.64	18.39	5.05	5.38	0.33	60,852	218.3
101714	18	32.64	18.39	5.89	6.17	0.28	83,360	299.6
101715	20	36.96	20.60	4.47	4.88	0.41	46,573	186.2
101716	20	36.96	20.60	5.44	5.79	0.35	69,859	279.3
101717	20	36.96	20.60	6.15	6.45	0.30	93,146	372.4
101718	22	40.39	22.89	5.31	5.82	0.51	61,652	216.9
101719	22	40.39	22.89	6.45	6.88	0.43	92,478	325.4
101720	22	40.39	22.89	7.42	7.80	0.38	123,305	433.9
101721	24	43.41	24.82	5.38	5.92	0.54	67,124	329.3
101722	24	43.41	24.82	6.53	6.96	0.43	100,685	494.1
101723	24	43.41	24.82	7.52	7.90	0.38	134,247	658.8
101724	27	48.69	27.81	5.97	6.60	0.63	88,075	474.5
101725	27	48.69	27.81	7.26	7.80	0.54	132,112	713.4
101726	27	48.69	27.81	8.38	8.81	0.43	176,683	954.1
101727	30	53.92	30.81	6.78	7.42	0.64	107,291	643.7
101728	30	53.92	30.81	8.26	8.79	0.53	160,937	965.6
101729	30	53.92	30.81	9.50	9.98	0.48	214,582	1287.5
101730	32	58.67	32.54	7.65	8.38	0.73	133,447	677.9
101731	32	58.67	32.54	9.55	10.16	0.61	200,170	1016.9
101732	32	58.67	32.54	10.72	11.25	0.53	266,893	1355.8
101733	33	59.18	33.53	7.57	8.26	0.69	133,847	883.2
101734	33	59.18	33.53	9.22	9.80	0.58	200,770	1324.9
101735	33	59.18	33.53	10.62	11.13	0.51	267,694	1766.5
101736	36	65.53	36.80	8.18	8.99	0.81	157,053	1130.5
101737	36	65.53	36.80	9.96	10.64	0.68	235,582	2061.9
101738	36	65.53	36.80	11.46	12.04	0.58	314,107	2261.1
101739	39	68.07	39.62	12.95	13.54	0.59	398,205	2169.3
101740	42	74.93	42.85	10.41	11.28	0.87	237,535	1491.4
101741	42	74.93	42.85	12.67	13.36	0.69	356,302	2237.1
101742	42	74.93	42.85	14.58	15.21	0.63	475,960	2982.8
101743	48	86.08	49.20	11.81	12.83	1.02	321,606	2711.6
101744	48	86.08	49.20	14.38	15.21	0.83	482,409	4067.5
101745	48	86.08	49.20	14.76	15.6	0.84	509,210	5423.3
101746	52	91.44	52.81	15.8	16.66	0.86	585,275	5965.6
101747	72	128.65	73.51	22.15	23.29	1.14	1,145,550	16492.2
101748	80	140.00	81.53	19.05	20.57	1.52	900,115	14401.5
101749	80	140.00	81.53	26.59	27.69	1.10	1,783,959	28540.0
101750	90	155.58	91.24	21.36	22.89	1.53	1,069,147	19008.6

The Specifications and Parameters are based on material 17-7PH.
下表中的规格和参数基于材质 17-7PH

Flange Bolting Washers Specifications(17-7PH)								
Part No.	Bolt Size mm	De mm	Di mm	t mm	l ₀ mm	h ₀ mm	Flat load N	Torque N.m
101800	8	14.73	8.18	1.27	1.68	0.41	4,226	7.1
101801	10	18.24	10.41	2.11	2.29	0.18	12,445	25.2
101802	12	21.69	12.40	2.41	2.67	0.26	16,458	39.7
101803	14	25.27	14.40	2.41	2.72	0.31	16,236	45.4
101804	16	29.16	16.36	2.97	3.30	0.33	28,913	81.4
101805	18	32.64	18.39	3.45	3.81	0.36	33,584	121.0
101806	20	36.45	20.83	3.94	4.32	0.38	43,593	174.7
101807	22	40.39	22.89	3.94	4.42	0.48	43,370	190.4
101808	24	43.10	24.82	3.94	4.45	0.51	42,925	205.7
101809	27	48.69	27.81	3.94	4.62	0.68	42,258	228.1
101810	30	53.92	30.81	4.90	5.56	0.66	66,723	399.2
101811	32	57.38	32.79	4.90	5.64	0.74	66,056	421.7
101812	36	65.53	36.80	4.90	5.87	0.97	64,944	466.4
101813	36	65.53	36.80	6.48	7.37	0.89	117,433	844.7
101814	38	68.07	38.89	6.35	7.21	0.86	115,654	850.1
101815	39	69.85	39.62	6.48	7.34	0.86	117,678	907.0
101816	42	74.93	42.85	6.65	7.62	0.97	122,326	968.1
101817	45	80.52	45.72	7.14	8.16	1.02	137,895	1233.8
101818	48	86.08	49.20	8.08	9.12	1.04	181,265	1739.5
101819	52	92.20	52.81	8.08	9.27	1.19	180,153	1868.3
101820	64	114.30	65.56	10.01	11.46	1.45	275,790	3525.1
101821	72	127.00	72.90	10.01	11.76	1.75	272,009	3914.3
101822	72	127.00	72.90	12.70	14.12	1.42	451,494	6494.4

Flange Bolting Washers (Inconel X718)

法兰螺栓预紧垫圈 (Inconel X718)

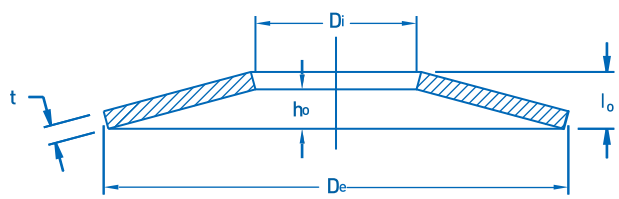
The Specifications and Parameters are based on material Inconel X718.

下表中的规格和参数基于材质 Inconel X718.

Flange Bolting Washers Specifications(Inconel X718)								
Part No.	Bolt Size mm	D _e mm	D _i mm	t mm	l ₀ mm	h ₀ mm	Flat load N	Torque N.m
101900	8	14.73	8.18	1.27	1.47	0.20	4,439	7.1
101901	8	14.73	8.18	1.96	2.09	0.13	10,898	17.5
101902	10	18.24	10.41	1.96	2.16	0.20	10,774	21.6
101903	10	18.24	10.41	2.54	2.69	0.15	18,522	37.0
101904	12	21.69	12.40	2.54	2.74	0.20	18,309	43.9
101905	12	21.69	12.40	3.18	3.35	0.17	29,016	69.6
101906	14	25.27	14.40	2.54	2.82	0.28	18,064	50.6
101907	16	29.16	16.36	3.18	3.48	0.30	28,469	90.7
101908	18	32.64	18.39	3.96	4.27	0.31	44,687	160.7
101909	20	36.45	20.60	3.96	4.34	0.38	44,309	177.2
101910	20	36.45	20.60	5.00	5.31	0.31	74,156	300.2
101911	22	40.39	22.89	3.96	4.45	0.49	43,859	192.9
101912	24	43.41	24.82	3.96	4.50	0.54	43,486	208.8
101913	24	43.41	24.82	6.48	6.81	0.33	120,876	580.3
101914	27	48.69	27.81	3.96	4.62	0.66	42,836	231.3
101915	30	53.92	30.81	5.08	5.72	0.64	71,741	430.3
101916	30	53.92	30.81	6.48	7.01	0.53	119,275	715.6
101917	32	57.38	31.47	5.08	5.84	0.76	717,314	456.1
101918	32	57.38	32.79	6.48	7.06	0.58	118,692	759.1
101919	33	59.18	33.53	6.48	7.11	0.63	118,434	781.5
101920	36	65.53	36.80	5.08	6.02	0.94	69,926	503.3
101921	36	65.53	36.80	6.48	7.24	0.76	117,433	843.3
101922	36	65.53	36.80	9.53	10.06	0.53	261,435	1881.9
101923	42	74.93	42.85	6.88	7.80	0.92	131,325	110.3
101924	42	74.93	42.85	9.53	10.21	0.68	258,966	2174.6
101925	45	80.52	45.72	6.48	7.59	1.11	114,319	1027.7
101926	48	86.08	49.20	8.08	9.12	1.04	181,274	1739.5
101927	48	86.08	49.20	9.53	10.41	0.88	256,253	2459.1



Valve Disc Springs Specifications
阀门碟形弹簧规格



Valve Disc Springs Specifications 阀门碟形弹簧规格					
Part No.	De mm	Di mm	t mm	lo mm	weight/1000pcs kgs
102100	16.00	8.20	0.40	0.90	0.5
102101	16.50	10.50	0.50	1.20	0.5
102102	17.00	10.50	1.00	2.30	1.1
102103	17.50	10.50	0.50	1.20	0.6
102104	18.30	10.50	1.50	2.05	2.1
102105	18.50	10.50	2.00	3.00	2.9
102106	18.50	12.50	2.00	3.00	2.3
102107	19.05	9.65	1.02	1.50	1.7
102108	20.00	10.20	0.80	1.35	1.5
102109	20.00	10.20	1.20	1.75	2.2
102110	20.00	12.20	0.80	1.35	1.3
102111	20.00	12.50	2.00	3.00	3.1
102112	22.20	11.30	1.20	1.70	2.8
102113	22.23	11.23	1.14	1.70	2.6
102114	22.40	15.20	1.00	2.30	1.7
102115	23.50	15.50	0.50	1.50	1.0
102116	25.00	12.20	0.80	1.50	2.4
102117	25.00	12.20	0.90	1.60	2.7
102118	25.00	12.20	1.00	1.80	3.0
102119	25.00	12.20	1.20	1.95	3.6
102120	25.00	12.20	1.50	2.05	4.5
102121	25.00	14.80	1.00	2.50	2.6
102122	25.50	16.50	2.00	3.00	4.7
102123	27.00	16.50	2.00	3.00	5.7
102124	28.00	14.20	1.25	2.50	4.6
102125	28.50	15.50	2.00	2.80	7.2
102126	28.50	20.20	1.00	2.40	2.5
102127	28.58	14.40	1.42	2.13	5.4
102128	28.60	20.80	1.00	2.10	2.4
102129	28.60	14.40	1.40	2.20	5.4
102130	29.50	22.50	1.00	2.00	2.3
102131	30.00	18.50	2.50	3.50	8.8
102132	31.50	16.30	1.25	2.15	5.7
102133	31.50	16.30	1.80	2.50	8.2
102134	31.50	19.50	2.00	2.80	7.7
102135	31.75	16.00	1.30	2.21	6.1
102136	33.00	20.50	2.50	3.50	10.5
102137	34.40	25.60	1.00	2.30	3.3

Valve Disc Springs Specifications 阀门碟形弹簧规格					
Part No.	D _e mm	D _i mm	t mm	l ₀ mm	weight/1000pcs kgs
102138	34.50	24.00	1.00	2.20	3.9
102139	37.10	28.00	1.25	2.30	4.7
102140	37.50	25.50	2.00	2.80	9.5
102141	38.10	19.18	1.52	2.59	10.3
102142	40.00	20.40	1.25	2.00	9.3
102143	42.00	32.00	1.00	2.40	4.6
102144	42.30	32.00	1.10	2.30	5.3
102145	43.50	32.50	1.50	2.80	7.9
102146	44.00	20.40	1.25	2.40	11.9
102147	44.00	34.00	1.50	2.60	7.4
102148	44.50	22.40	1.50	2.90	13.9
102149	45.00	22.40	1.75	3.25	16.7
102150	45.00	33.20	1.40	2.50	8.1
102151	46.40	37.10	1.10	2.00	5.4
102152	52.20	40.00	1.50	2.90	10.6
102153	52.30	41.00	1.50	2.60	9.9
102154	53.00	41.20	1.60	3.50	11.2
102155	53.50	42.00	1.50	2.50	10.4
102156	55.00	43.00	1.25	2.20	9.2
102157	55.50	39.00	2.00	2.80	19.6
102158	56.00	28.50	1.50	2.50	21.9
102159	57.15	29.36	1.85	3.76	27.9
102160	57.20	29.40	1.90	3.80	28.7
102161	60.00	30.50	2.50	4.75	41.9
102162	60.00	32.50	1.80	4.15	28.8
102163	61.50	47.50	1.00	2.50	9.6
102164	62.00	51.00	1.50	2.60	11.7
102165	62.60	48.40	1.50	3.20	14.9
102166	63.00	32.50	1.80	4.15	32.9
102167	63.50	51.00	1.80	3.00	16.2
102168	64.00	57.00	1.00	1.60	5.3
102169	65.80	51.00	2.00	4.30	21.7
102170	66.00	55.00	1.20	2.50	10.0
102171	68.60	55.50	1.50	3.20	15.3
102172	69.85	35.71	3.35	4.98	75.9
102173	70.00	40.50	3.00	5.25	61.4
102174	70.20	53.00	0.60	3.00	8.0
102175	71.00	36.00	1.50	3.50	35.3

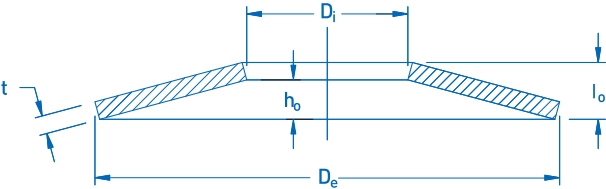
Valve Disc Springs
阀门碟形弹簧

Valve Disc Springs Specifications 阀门碟形弹簧规格					
Part No.	D _e mm	D _i mm	t mm	l ₀ mm	weight/1000pcs kgs
102176	71.00	51.00	2.00	2.80	30.7
102177	71.50	51.00	2.00	2.80	31.6
102178	72.80	59.20	1.50	3.00	16.9
102179	76.20	46.00	3.40	5.70	78.8
102180	77.00	61.00	2.00	3.50	27.7
102181	79.00	67.00	1.50	2.80	16.5
102182	80.00	40.60	2.20	5.10	65.7
102183	80.00	64.00	2.00	4.60	29.0
102184	80.40	65.60	2.00	3.60	27.2
102185	80.40	65.60	2.00	3.60	27.2
102186	80.60	67.20	1.80	3.80	22.4
102187	83.50	70.00	2.00	3.40	26.0
102188	85.00	69.00	2.30	4.70	35.6
102189	91.00	76.50	2.00	3.50	30.5
102190	96.00	75.00	1.20	3.30	27.1
102191	98.00	84.00	2.00	3.90	32.0
102192	99.00	83.20	2.00	4.90	36.2
102193	102.00	82.50	2.00	4.50	45.2
102194	102.00	82.50	3.20	4.80	72.3
102195	104.00	87.00	2.00	4.20	40.8
102196	105.00	80.00	0.60	4.30	17.4
102197	109.00	91.00	2.25	4.20	50.9
102198	112.00	55.80	3.00	6.90	177.8
102199	114.90	101.30	1.40	3.28	25.9
102200	116.50	100.50	2.00	4.50	43.6
102201	119.00	102.00	2.50	5.00	59.0
102202	120.00	104.00	2.00	3.70	45.0
102203	121.00	100.00	2.00	5.20	58.3
102204	121.00	102.00	3.20	4.90	85.2
102205	123.50	106.00	2.50	4.60	63.1
102206	124.46	107.46	1.00	3.00	24.8
102207	132.00	115.00	2.50	4.80	66.0
102208	133.70	93.20	2.50	6.50	144.3
102209	133.70	93.20	3.00	6.50	173.2
102210	134.76	113.60	2.00	4.29	66.0
102211	136.00	107.00	0.60	5.30	26.6
102212	139.80	93.20	4.00	6.50	272.9
102213	140.00	112.00	1.50	3.60	66.5

Valve Disc Springs Specifications 阀门碟形弹簧规格					
Part No.	De mm	Di mm	t mm	l ₀ mm	weight/1000pcs kgs
102214	143.00	113.60	2.50	5.00	118.5
102215	145.50	125.50	2.50	5.20	85.1
102216	145.50	125.50	3.20	5.10	109.0
102217	149.00	131.00	2.50	4.20	79.2
102218	149.00	131.00	3.40	5.55	107.7
102219	149.00	126.50	2.50	5.50	97.4
102220	149.50	132.00	2.50	5.10	77.4
102221	160.10	145.00	3.00	5.50	86.8
102222	172.30	151.00	3.00	6.50	129.8
102223	177.00	156.00	2.50	4.90	109.8
102224	177.00	156.00	3.00	5.00	131.8
102225	177.00	152.00	2.50	5.30	129.2
102226	178.00	145.00	1.50	3.50	100.5
102227	179.00	153.00	3.20	6.50	173.6
102228	179.00	153.00	4.20	6.00	227.8
102229	186.40	159.60	3.00	5.50	174.8
102230	188.00	168.00	3.50	5.90	156.6
102231	206.00	162.00	0.60	5.80	61.0
102232	230.60	202.00	3.30	7.30	256.5
102233	231.00	206.00	3.00	5.50	205.9
102234	235.80	201.20	4.20	8.00	399.0
102235	243.00	210.00	3.50	6.50	328.7
102236	243.00	220.00	4.00	7.30	267.6
102237	246.00	210.00	3.00	7.00	309.4
102238	265.00	210.50	0.60	7.60	97.7
102239	276.00	253.00	4.00	7.80	305.8
102240	287.00	256.00	4.00	8.00	423.0
102241	288.80	255.00	5.20	9.10	600.5
102242	295.50	254.00	3.00	7.00	429.8
102243	347.00	301.00	4.00	8.50	749.1
102244	397.00	351.00	4.00	8.50	864.7
102245	409.00	367.00	5.00	12.00	1023.9
102246	429.00	390.00	5.00	9.00	1003.4
102247	470.00	438.00	5.00	10.00	912.8
102248	534.00	495.00	5.00	9.00	1260.7



Disc Springs for Ball Bearing Specifications
轴承预紧用碟簧弹簧规格



The Specifications and Parameters are based on standard material 51CrV4.

下表中的规格和参数基于标准材质 51CrV4.

Disc Springs for Ball Bearing Specifications (Plain) 轴承预紧用碟形弹簧规格 (无槽型)								
Part No.	D _e mm	D _i mm	t mm	l ₀ mm	Deflection mm	75% Defl. N	weight/1000pcs kgs	Used for
101350	9.80	6.20	0.20	0.40	0.15	24	0.068	623(EL3)
101351	12.80	7.20	0.25	0.50	0.19	29	0.167	624(EL4)
101352	15.80	8.20	0.25	0.55	0.22	23	0.275	625(EL5) 634(R4)
101353	18.80	9.20	0.30	0.65	0.26	31	0.487	626(EL6) 635(R5)
101354	18.80	10.20	0.35	0.70	0.26	51	0.526	607(EL7)
101355	21.80	12.30	0.35	0.75	0.30	46	0.684	608(EL8) 627(R7)
101356	23.70	14.30	0.40	0.90	0.37	44	0.862	609(EL9)
101357	25.70	14.30	0.40	0.90	0.37	64	1.105	6000 629(R9)
101358	27.70	17.30	0.40	1.00	0.45	80	1.13	6001
101359	29.70	17.30	0.40	1.10	0.52	82	1.406	6200
101360	31.70	20.40	0.40	1.10	0.52	81	1.422	6002 6201
101361	34.70	20.40	0.40	1.10	0.52	61	1.894	6300
101362	34.60	22.40	0.50	1.20	0.52	119	2.103	6003 6202
101363	36.60	20.40	0.50	1.30	0.60	111	2.805	6301
101364	39.60	25.50	0.50	1.30	0.60	111	2.783	6203
101365	41.60	25.50	0.50	1.40	0.67	114	3.282	6004 6302
101366	46.50	30.50	0.60	1.50	0.68	153	4.486	6005 6204 6303
101367	51.50	35.50	0.60	1.50	0.67	135	5.059	6205 6304
101368	54.50	40.50	0.60	1.50	0.67	140	4.822	6006

Disc Springs for Ball Bearing

轴承预紧用碟形弹簧

Disc Springs for Ball Bearing Specifications (Plain) 轴承预紧用碟形弹簧规格 (无槽型)								
Part No.	D _e mm	D _i mm	t mm	l ₀ mm	Deflection mm	75% Defl. N	weight/1000pcs kgs	Used for
101369	61.60	40.50	0.70	1.80	0.82	186	9.121	6007 6206 6305
101370	67.50	50.50	0.70	1.70	0.75	160	8.505	6008
101371	71.50	45.50	0.70	2.10	1.05	185	12.99	6306
101372	71.50	50.50	0.70	2.10	1.05	217	10.9	6207
101373	74.50	55.50	0.80	1.90	0.82	212	11.99	6009
101374	79.50	50.50	0.80	2.30	1.12	228	18.4	6307
101375	79.50	55.50	0.80	2.30	1.12	264	15.78	6010 6208
101376	84.50	60.50	0.90	2.50	1.20	357	19.05	6209
101377	89.50	60.50	0.90	2.50	1.20	288	23.86	6308
101378	89.50	65.50	0.90	2.50	1.20	333	20.36	6011 6210
101379	94.50	75.50	1.00	2.20	0.90	325	19.57	6012
101380	99.00	65.50	1.00	2.60	1.20	293	33.64	6309
101381	99.00	70.50	1.00	2.60	1.20	333	29.44	6013 6211
101382	109.00	70.50	1.25	2.70	1.09	356	52.8	6310
101383	109.00	75.50	1.25	2.70	1.09	394	47.17	6014 6212
101384	114.00	90.50	1.25	2.45	0.90	396	36.49	6015
101385	119.00	75.50	1.25	2.80	1.16	319	64.71	6311
101386	119.00	85.50	1.25	2.80	1.16	391	52.28	6213
101387	124.00	90.50	1.25	3.00	1.31	441	54.75	6016 6214
101388	129.00	85.50	1.25	3.20	1.46	402	71.28	6312
101389	129.00	95.50	1.25	3.20	1.46	441	57.31	6017 6215
101390	139.00	90.50	1.25	3.25	1.50	353	85.11	6313
101391	139.00	101.00	1.25	3.25	1.50	427	69.58	6018 6216
101392	149.00	95.50	1.50	3.20	1.50	380	120.1	6314
101393	149.00	106.00	1.50	3.20	1.28	448	100.5	6020 6217
101394	159.00	101.00	1.50	3.50	1.50	409	138.5	6315
101395	159.00	111.00	1.50	3.50	1.50	477	118.9	6021 6218
101396	169.00	111.00	1.50	3.80	1.73	472	149.2	6316
101397	169.00	121.00	1.50	3.80	1.73	542	127.7	6022 6219

Disc Springs for Ball Bearing Specifications (Plain)
轴承预紧用碟形弹簧规格 (无槽型)

Part No.	De mm	Di mm	t mm	l ₀ mm	Deflection mm	75% Defl. N	weight/1000pcs kgs	Used for
101398	179.00	121.00	2.00	4.20	1.65	861	213.1	6317
101399	179.00	126.00	2.00	4.20	1.65	934	197.8	6024 6220
101400	189.00	121.00	2.00	4.30	1.73	760	258.3	6318
101401	189.00	131.00	2.00	4.30	1.73	849	227.1	6221
101402	198.00	131.00	2.00	4.50	1.88	813	270	6319
101403	198.00	141.00	2.00	4.50	1.88	917	236.4	6026 6222
101404	213.00	151.00	2.25	4.50	1.69	941	310.9	6024 6320
101405	223.00	161.00	2.25	4.60	1.76	933	328	6030 6321
101406	228.00	161.00	2.25	4.95	2.02	1030	359.2	6226
101407	238.00	161.00	2.25	5.25	2.25	1020	423.8	6032 6322
101408	248.00	171.00	2.50	5.00	1.88	1000	494.5	6228
101409	258.00	171.00	2.50	5.5	2.25	1108	572.2	6034 6324
101410	268.00	181.00	2.50	5.70	2.40	1160	598.7	6230
101411	278.00	181.00	2.50	6.00	2.63	1160	682.7	6036 6326
101412	288.00	191.00	2.75	5.75	2.25	1150	783.7	6038 6232
101413	298.00	191.00	2.75	6.35	2.70	1310	883	6328
101414	308.00	202.00	3.00	6.10	2.33	1300	995.2	6040 6234
101415	318.00	212.00	3.00	6.20	2.40	1300	1034	6236 6330
101416	338.00	232.00	3.00	6.60	2.70	1415	1112	6044 6238 6332
101417	358.00	242.00	3.00	7.20	3.15	1530	1281	6048 6240 6334

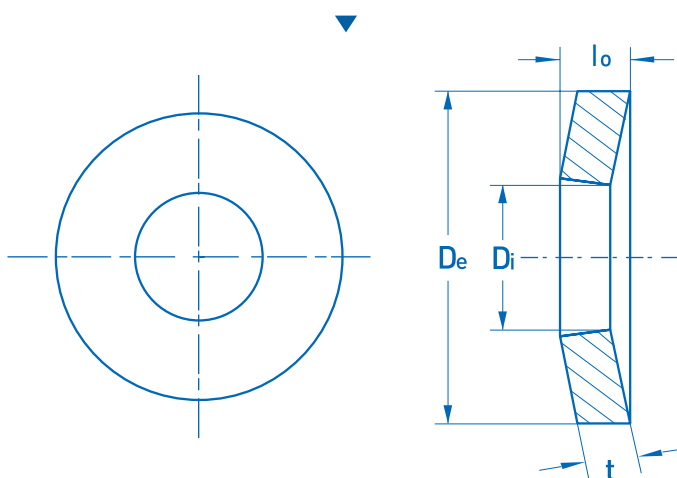
Disc Springs for Ball Bearing

轴承预紧用碟形弹簧

Disc Springs for Ball Bearing Specifications (Slotted) 轴承预紧用碟形弹簧规格 (开槽型)								
Part No.	De mm	Di mm	t mm	l0 mm	Deflection mm	75% Defl. N	weight/1000pcs kgs	Used for
101300	9.80	6.20	0.15	0.60	0.35	13	0.050	623(EL3)
101301	12.80	7.20	0.20	0.65	0.35	18	0.130	624(EL4)
101302	15.80	8.20	0.25	0.75	0.40	20	0.280	625(EL5) 634(R4)
101303	18.80	9.20	0.25	1.00	0.55	20	0.440	626(EL6) 635(R6)
101304	18.80	10.20	0.25	1.05	0.60	24	0.320	607(EL7)
101305	21.80	12.30	0.25	1.25	0.75	24	0.420	608(EL8) 627(R7)
101306	23.70	14.30	0.30	1.30	0.75	25	0.660	609(EL9)
101307	25.70	14.30	0.30	1.40	0.80	28	0.700	6000 629(R9)
101308	27.70	17.30	0.35	1.45	0.80	31	0.984	6001
101309	29.70	17.30	0.35	1.55	0.90	32	1.200	6200
101310	31.70	20.40	0.35	1.55	0.90	33	1.270	6002 6201
101311	34.60	20.40	0.35	1.65	1.00	32	1.650	6300
101312	34.60	22.40	0.35	1.55	0.90	32	1.500	6003 6202
101313	36.60	20.40	0.40	1.90	1.10	35	2.280	6301
101314	39.60	25.50	0.40	1.90	1.10	37	1.920	6203
101315	41.60	25.50	0.45	2.05	1.20	39	2.500	6004 6302
101316	46.50	30.50	0.45	2.05	1.20	44	2.840	6005 6204 6303
101317	51.50	35.50	0.45	2.10	1.25	47	3.070	6205 6304
101318	54.50	40.50	0.45	2.15	1.40	53	3.200	6006
101319	61.50	40.50	0.55	2.55	1.50	54	6.050	6007 6206 6305
101320	67.50	50.50	0.50	2.60	1.60	78	5.500	6008
101321	71.50	45.50	0.60	2.90	1.70	74	9.600	6306
101322	71.50	50.50	0.60	2.90	1.70	127	8.200	6207
101323	74.50	55.50	0.60	2.90	1.70	91	7.580	6009
101324	79.50	50.50	0.70	3.10	1.80	83	16.260	6307
101325	79.50	55.50	0.70	2.90	1.65	127	14.500	6010 6208
101326	84.50	60.50	0.75	3.15	1.80	78	13.000	6209
101327	89.50	60.50	0.80	3.30	1.90	104	18.100	6308
101328	89.50	65.50	0.80	3.40	1.95	189	16.000	6011 6210
101329	94.50	75.50	0.80	3.45	2.00	206	13.300	6012



Heavy Duty Safety Washers as per DIN6796 Specifications
重载荷安全垫圈 DIN6796 规格



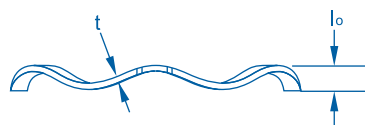
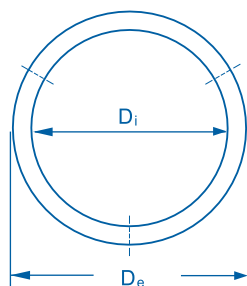
Heavy Duty Safety Washers as per DIN6796

重载荷安全垫圈 DIN6796

Heavy Duty Safety Washers as per DIN6796 Specifications 重载荷安全垫圈 DIN6796 规格							
Part No.	Used for	De mm	Di mm	t mm	l ₀ max mm	l ₀ min mm	Spring load N
100500	M2	5.00	2.20	0.40	0.60	0.50	630
100501	M2.5	6.00	2.70	0.50	0.72	0.61	950
100502	M3	7.00	3.20	0.60	0.85	0.72	1320
100503	M3.5	8.00	3.70	0.80	1.06	0.92	2400
100504	M4	9.00	4.30	1.00	1.30	1.12	3800
100505	M5	11.00	5.30	1.20	1.55	1.35	5500
100506	M6	14.00	6.40	1.50	2.00	1.70	8600
100507	M7	17.00	7.40	1.75	2.30	2.00	11300
100508	M8	18.00	8.40	2.00	2.60	2.24	14900
100509	M10	23.00	10.50	2.50	3.20	2.80	22100
100510	M12	29.00	13.00	3.00	3.95	3.43	34100
100511	M14	35.00	15.00	3.50	4.65	4.04	46000
100512	M16	39.00	17.00	4.00	5.25	4.58	59700
100513	M18	42.00	19.00	4.50	5.80	5.08	74400
100514	M20	45.00	21.00	5.00	6.40	5.60	93200
100515	M22	49.00	23.00	5.50	7.05	6.15	114000
100516	M24	56.00	25.00	6.00	7.75	6.77	131000
100517	M27	60.00	28.00	6.50	8.35	7.30	154000
100518	M30	70.00	31.00	7.00	9.20	8.00	172000
100519	M33	76.00	34.00	7.50	10.00	8.50	226000
100520	M36	83.00	37.20	8.00	10.50	9.20	276000
100521	M42	96.00	43.50	8.50	12.00	10.50	290000
100522	M48	110.00	49.50	9.00	12.50	11.00	261000
100523	M56	128.00	58.00	9.50	13.50	12.00	260000
100524	M64	136.00	66.00	10.00	14.00	12.80	277000
100525	M72	145.00	74.00	10.50	15.00	13.00	327000
100526	M90	160.00	92.50	11.00	16.00	14.00	378000
100527	M100	180.00	102.50	11.50	17.00	15.00	370000
100528	M125	220.00	128.00	12.00	19.00	16.50	365000



Wave springs Specifications
波形弹簧规格



Wave spring 波形弹簧

Wave springs Specifications 波形弹簧规格								
Part No.	De mm	Di mm	lo mm	t mm	Waves	Working Height mm	Working load N	Stress N/mm ²
102500	15.4	11.7	2.0	0.3	3	1.4	68	1450
102501	18.6	14.7	2.7	0.3	3	1.8	58	1464
102502	21.0	16.0	3.0	0.4	3	2.2	121	1467
102503	21.4	15.3	3.0	0.4	3	2.2	152	1496
102504	25.0	18.7	3.5	0.4	3	2.4	127	1450
102505	27.0	22.0	3.0	0.4	3	1.5	89	1427
102506	27.2	20.8	4.0	0.4	3	2.6	116	1431
102507	29.0	22.6	3.0	0.5	3	1.7	167	1410
102508	31.4	26.6	4.0	0.5	3	2.2	112	1422
102509	34.0	27.8	4.0	0.5	3	2.0	138	1442
102510	37.0	31.0	3.0	0.5	4	1.6	216	1446
102511	38.6	32.8	3.5	0.5	4	1.9	203	1478
102512	40.6	34.1	3.5	0.5	4	1.8	214	1451
102513	41.5	34.5	3.0	0.5	4	1.3	228	1458
102514	42.0	32.0	4.0	0.8	4	3.1	856	1458
102515	44.5	38.5	4.8	1.0	4	3.7	725	1477
102516	45.5	38.5	4.0	0.5	4	1.8	208	1475
102517	48.0	38.0	3.0	0.8	4	1.7	718	1422
102518	50.0	39.0	4.5	0.8	4	3.1	779	1451
102519	50.5	41.0	3.2	0.5	5	2.0	406	1477
102520	52.0	41.0	3.5	0.5	5	2.3	462	1472
102521	52.5	42.5	5.3	1.1	4	4.1	1251	1446
102522	53.0	41.0	3.5	0.8	4	2.0	805	1452
102523	60.2	50.2	3.9	0.5	5	2.1	356	1482
102524	60.4	50.0	3.2	0.6	5	1.8	519	1443
102525	61.5	46.5	5.5	1.1	4	4.1	1652	1447
102526	63.5	53.0	4.0	0.5	5	2.0	353	1477
102527	65.0	55.0	5.7	0.8	4	2.9	533	1471
102528	65.0	55.0	5.7	1.1	5	4.7	1535	1435
102529	69.0	60.0	3.0	0.8	6	1.4	701	1480
102530	69.0	59.0	5.5	0.5	5	3.1	297	1433
102531	84.0	72.0	5.7	0.8	5	3.4	771	1476
102532	84.0	72.0	4.7	0.8	6	3.1	1112	1478
102533	84.0	72.0	5.6	1.1	6	4.5	2078	1461
102534	87.6	78.1	4.5	0.6	6	2.0	465	1476

Wave springs Specifications
波形弹簧规格

Part No.	D _e mm	D _i mm	l ₀ mm	t mm	Waves	Working Height mm	Working load N	Stress N/mm ²
102535	88.0	77.0	3.6	0.6	5	1.5	225	885
102536	92.0	80.0	6.0	0.8	6	4.1	971	1424
102537	92.0	80.0	6.0	1.0	6	4.5	1547	1452
102538	92.0	80.0	5.6	1.1	6	4.2	1860	1442
102539	93.0	73.0	5.0	0.8	6	3.4	1680	1426
102540	93.0	79.0	6.7	1.1	6	5.3	2222	1476
102541	96.0	85.0	5.2	0.8	6	3.0	869	1462
102542	97.0	87.5	5.6	0.6	6	2.6	400	1412
102543	99.0	87.0	6.0	0.8	6	3.7	920	1458
102544	102.0	89.0	5.6	0.8	6	3.2	967	1453
102545	107.3	97.6	4.6	0.6	7	2.4	506	1429
102546	110.0	97.0	6.7	0.8	6	3.9	877	1428
102547	116.4	107.0	5.8	0.6	7	3.1	460	1460
102548	120.8	111.6	5.9	0.6	7	3.0	427	1442
102549	123.0	107.0	5.0	1.0	7	3.4	2080	1438
102550	124.0	111.0	5.8	0.8	7	3.6	1084	1472
102551	128.0	115.0	6.0	0.8	7	3.7	1021	1434
102552	128.0	115.0	5.0	0.6	6	3.0	160	545
102553	128.5	109.5	4.8	0.8	6	3.0	561	718
102554	132.0	114.0	6.0	0.8	7	3.7	1418	1456
102555	137.0	125.0	6.0	0.8	8	3.9	1153	1449
102556	138.5	119.8	4.6	0.9	6	3.0	538	601
102557	142.0	127.5	6.0	0.8	8	3.8	1363	1457
102558	148.8	125.4	4.6	0.9	6	3.0	578	547
102559	158.0	144.0	6.6	0.8	8	3.8	1173	1455
102560	159.0	137.0	4.5	1.0	6	3.0	543	478
102561	169.0	142.0	4.3	1.0	6	3.0	511	385
102562	179.0	145.0	4.8	1.0	6	3.0	817	510
102563	187.5	154.5	5.0	1.2	6	4.0	637	300
102564	197.5	166.5	5.5	1.2	6	4.0	727	388
102565	208.0	190.0	5.1	1.5	7	4.0	998	471
102566	212.0	182.0	7.0	1.4	6	4.0	1731	759
102567	223.0	205.0	5.5	1.5	7	4.0	1087	552
102568	237.0	204.0	7.5	1.4	6	4.0	1580	705
102569	238.0	220.0	5.1	1.8	7	4.0	1118	422

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