



Light load 轻负荷

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Table of standards
轻负荷

Model 型号	Outside Diameter 外径 (mm)	Inside Diameter 内径 (mm)	Free length 自由长 (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]		
TL 8 × 10	8	4	10	24.53	{ 2.50 }	3.2	78.5 { 8.0 }	3.6	88.3 { 9.0 }	4.0	98.1 { 10.0 }
15			15	16.35	{ 1.67 }	4.8		5.4		6.0	
20			20	12.26	{ 1.25 }	6.4		7.2		8.0	
25			25	9.81	{ 1.00 }	8.0		9.0		10.0	
30			30	8.18	{ 0.83 }	9.6		10.8		12.0	
35			35	7.01	{ 0.71 }	11.2		12.6		14.0	
40			40	6.13	{ 0.63 }	12.8		14.4		16.0	
45			45	5.45	{ 0.56 }	14.4		16.2		18.0	
50			50	4.91	{ 0.50 }	16.0		18.0		20.0	
55			55	4.46	{ 0.45 }	17.6		19.8		22.0	
60			60	4.09	{ 0.42 }	19.2		21.6		24.0	
65			65	3.77	{ 0.38 }	20.8		23.4		26.0	
70			70	3.50	{ 0.36 }	22.4		25.2		28.0	
75			75	3.27	{ 0.33 }	24.0		27.0		30.0	
80			80	3.07	{ 0.31 }	25.6		28.8		32.0	
TL 10 × 20			10	5	20	17.71		{ 1.81 }		6.4	
25	25	14.17			{ 1.44 }	8.0	9.0	10.0			
30	30	11.81			{ 1.20 }	9.6	10.8	12.0			
35	35	10.12			{ 1.03 }	11.2	12.6	14.0			
40	40	8.85			{ 0.90 }	12.8	14.4	16.0			
45	45	7.87			{ 0.80 }	14.4	16.2	18.0			
50	50	7.08			{ 0.72 }	16.0	18.0	20.0			
55	55	6.44			{ 0.66 }	17.6	19.8	22.0			
60	60	5.90			{ 0.60 }	19.2	21.6	24.0			
65	65	5.45			{ 0.56 }	20.8	23.4	26.0			
70	70	5.06			{ 0.52 }	22.4	25.2	28.0			
75	75	4.72			{ 0.48 }	24.0	27.0	30.0			
80	80	4.43			{ 0.45 }	25.6	28.8	32.0			
90	90	3.94			{ 0.40 }	28.8	32.4	36.0			

1N = 0.102 Kgf
1N (牛顿) = 0.102 Kgf (千克)

Load (N) = Spring Constant (N/mm) × Deflection (mm)
负荷 (N) = 弹簧常数 (N/mm) × 压缩量 (mm)



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 规格标准

Model 型号	Outside Diameter 外径 (mm)	Inside Diameter 内径 (mm)	Free length 自由长 (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TL 12 × 20	12	6	20	25.88	{ 2.64 }	6.4	166.7 { 17.0 }	7.2	186.3 { 19.0 }	8.0	206 { 21.0 }
25			25	20.70	{ 2.11 }	8.0		9.0			
30			30	17.25	{ 1.76 }	9.6		10.8			
35			35	14.79	{ 1.51 }	11.2		12.6			
40			40	12.94	{ 1.32 }	12.8		14.4			
45			45	11.50	{ 1.17 }	14.4		16.2			
50			50	10.35	{ 1.06 }	16.0		18.0			
55			55	9.41	{ 0.96 }	17.6		19.8			
60			60	8.63	{ 0.88 }	19.2		21.6			
65			65	7.96	{ 0.81 }	20.8		23.4			
70			70	7.39	{ 0.75 }	22.4		25.2			
75			75	6.90	{ 0.70 }	24.0		27.0			
80			80	6.47	{ 0.66 }	25.6		28.8			
90			90	5.75	{ 0.59 }	28.8		32.4			
TL 14 × 25	14	7	25	27.22	{ 2.78 }	8.0	216 { 22.0 }	9.0	245 { 25.0 }	10.0	275 { 28.0 }
30			30	22.69	{ 2.31 }	9.6		10.8			
35			35	19.44	{ 1.98 }	11.2		12.6			
40			40	17.01	{ 1.73 }	12.8		14.4			
45			45	15.12	{ 1.54 }	14.4		16.2			
50			50	13.61	{ 1.39 }	16.0		18.0			
55			55	12.37	{ 1.26 }	17.6		19.8			
60			60	11.34	{ 1.16 }	19.2		21.6			
65			65	10.47	{ 1.07 }	20.8		23.4			
70			70	9.72	{ 0.99 }	22.4		25.2			
75			75	9.07	{ 0.93 }	24.0		27.0			
80			80	8.51	{ 0.87 }	25.6		28.8			
90			90	7.56	{ 0.77 }	28.8		32.4			
100			100	6.81	{ 0.69 }	32.0		36.0			
TL 16 × 25	16	8	25	34.89	{ 3.56 }	8.0	275 { 28.0 }	9.0	314 { 32.0 }	10.0	343 { 35.0 }
30			30	29.07	{ 2.96 }	9.6		10.8			
35			35	24.92	{ 2.54 }	11.2		12.6			
40			40	21.81	{ 2.22 }	12.8		14.4			
45			45	19.38	{ 1.98 }	14.4		16.2			
50			50	17.44	{ 1.78 }	16.0		18.0			
55			55	15.86	{ 1.62 }	17.6		19.8			
60			60	14.54	{ 1.48 }	19.2		21.6			
65			65	13.42	{ 1.37 }	20.8		23.4			
70			70	12.46	{ 1.27 }	22.4		25.2			
75			75	11.63	{ 1.19 }	24.0		27.0			
80			80	10.90	{ 1.11 }	25.6		28.8			
90			90	9.69	{ 0.99 }	28.8		32.4			
100			100	8.72	{ 0.89 }	32.0		36.0			
125	125	6.98	{ 0.71 }	40.0	45.0						

 1N = 0.102 Kgf
 1N (牛顿) = 0.102 Kgf (千克)

 Load (N) = Spring Constant (N/mm) × Deflection (mm)
 负荷 (N) = 弹簧常数 (N/mm) × 压缩量 (mm)



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Model 型号	Outside Diameter 外径 (mm)	Inside Diameter 内径 (mm)	Free length 自由长 (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]		
TL 18 × 25	18	9	25	42.44	{ 4.33 }	8.0	333 { 34.0 }	9.0	382 { 39.0 }	10.0	422 { 43.0 }
30			30	35.37	{ 3.61 }	9.6		10.8		12.0	
35			35	30.32	{ 3.09 }	11.2		12.6		14.0	
40			40	26.53	{ 2.71 }	12.8		14.4		16.0	
45			45	23.58	{ 2.40 }	14.4		16.2		18.0	
50			50	21.22	{ 2.16 }	16.0		18.0		20.0	
55			55	19.29	{ 1.97 }	17.6		19.8		22.0	
60			60	17.69	{ 1.80 }	19.2		21.6		24.0	
65			65	16.32	{ 1.66 }	20.8		23.4		26.0	
70			70	15.16	{ 1.55 }	22.4		25.2		28.0	
75			75	14.15	{ 1.44 }	24.0		27.0		30.0	
80			80	13.26	{ 1.35 }	25.6		28.8		32.0	
90			90	11.79	{ 1.20 }	28.8		32.4		36.0	
100			100	10.61	{ 1.08 }	32.0		36.0		40.0	
125	125	8.49	{ 0.87 }	40.0	45.0	50.0					
TL 20 × 25	20	10	25	53.44	{ 5.45 }	8.0	422 { 43.0 }	9.0	481 { 49.0 }	10.0	530 { 54.0 }
30			30	44.54	{ 4.54 }	9.6		10.8		12.0	
35			35	38.17	{ 3.89 }	11.2		12.6		14.0	
40			40	33.40	{ 3.41 }	12.8		14.4		16.0	
45			45	29.69	{ 3.03 }	14.4		16.2		18.0	
50			50	26.72	{ 2.72 }	16.0		18.0		20.0	
55			55	24.29	{ 2.48 }	17.6		19.8		22.0	
60			60	22.27	{ 2.27 }	19.2		21.6		24.0	
65			65	20.56	{ 2.10 }	20.8		23.4		26.0	
70			70	19.09	{ 1.95 }	22.4		25.2		28.0	
75			75	17.81	{ 1.82 }	24.0		27.0		30.0	
80			80	16.70	{ 1.70 }	25.6		28.8		32.0	
90			90	14.85	{ 1.51 }	28.8		32.4		36.0	
100			100	13.36	{ 1.36 }	32.0		36.0		40.0	
125	125	10.69	{ 1.09 }	40.0	45.0	50.0					
150	150	8.91	{ 0.91 }	48.0	54.0	60.0					
TL 22 × 25	22	11	25	65.33	{ 6.66 }	8.0	530 { 54.0 }	9.0	588 { 60.0 }	10.0	657 { 67.0 }
30			30	54.44	{ 5.55 }	9.6		10.8		12.0	
35			35	46.67	{ 4.76 }	11.2		12.6		14.0	
40			40	40.83	{ 4.16 }	12.8		14.4		16.0	
45			45	36.30	{ 3.70 }	14.4		16.2		18.0	
50			50	32.67	{ 3.33 }	16.0		18.0		20.0	
55			55	29.70	{ 3.03 }	17.6		19.8		22.0	
60			60	27.22	{ 2.78 }	19.2		21.6		24.0	
65			65	25.13	{ 2.56 }	20.8		23.4		26.0	
70			70	23.33	{ 2.38 }	22.4		25.2		28.0	
75			75	21.78	{ 2.22 }	24.0		27.0		30.0	
80			80	20.42	{ 2.08 }	25.6		28.8		32.0	
90			90	18.15	{ 1.85 }	28.8		32.4		36.0	
100			100	16.33	{ 1.67 }	32.0		36.0		40.0	
125	125	13.07	{ 1.33 }	40.0	45.0	50.0					
150	150	10.89	{ 1.11 }	48.0	54.0	60.0					

1N = 0.102 Kgf

1N (牛顿) = 0.102 Kgf (千克)

Load (N) = Spring Constant (N/mm) × Deflection (mm)

负荷 (N) = 弹簧常数 (N/mm) × 压缩量 (mm)



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TL

Model 型号	Outside Diameter 外径 (mm)	Inside Diameter 内径 (mm)	Free length 自由长 (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次			
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]		
TL 25 × 25	25	12.5	25	82.78	{ 8.44 }	8.0	657	9.0	745	10.0	824		
30			30	68.98	{ 7.03 }	9.6		10.8		12.0			
35			35	59.13	{ 6.03 }	11.2		12.6		14.0			
40			40	51.74	{ 5.28 }	12.8		14.4		16.0			
45			45	45.99	{ 4.69 }	14.4		16.2		18.0			
50			50	41.39	{ 4.22 }	16.0		18.0		20.0			
55			55	37.63	{ 3.84 }	17.6		19.8		22.0			
60			60	34.49	{ 3.52 }	19.2		21.6		24.0			
65			65	31.84	{ 3.25 }	20.8		23.4		26.0			
70			70	29.56	{ 3.01 }	22.4		{ 67.0 }		{ 76.0 }		28.0	{ 84.0 }
75			75	27.59	{ 2.81 }	24.0		27.0		30.0			
80			80	25.87	{ 2.64 }	25.6		28.8		32.0			
90			90	22.99	{ 2.34 }	28.8		32.4		36.0			
100			100	20.69	{ 2.11 }	32.0		36.0		40.0			
125			125	16.56	{ 1.69 }	40.0		45.0		50.0			
150			150	13.80	{ 1.41 }	48.0		54.0		60.0			
175			175	11.83	{ 1.21 }	56.0		63.0		70.0			
200	200	10.35	{ 1.06 }	64.0	72.0	80.0							
TL 27 × 25	27	13.5	25	98.11	{ 10.00 }	8.0	785	9.0	883	10.0	981		
30			30	81.76	{ 8.34 }	9.6		10.8		12.0			
35			35	70.08	{ 7.15 }	11.2		12.6		14.0			
40			40	61.32	{ 6.25 }	12.8		14.4		16.0			
45			45	54.51	{ 5.56 }	14.4		16.2		18.0			
50			50	49.06	{ 5.00 }	16.0		18.0		20.0			
55			55	44.60	{ 4.55 }	17.6		19.8		22.0			
60			60	40.88	{ 4.17 }	19.2		21.6		24.0			
65			65	37.74	{ 3.85 }	20.8		23.4		26.0			
70			70	35.04	{ 3.57 }	22.4		{ 80.0 }		{ 90.0 }		28.0	{ 100.0 }
75			75	32.70	{ 3.33 }	24.0		27.0		30.0			
80			80	30.66	{ 3.13 }	25.6		28.8		32.0			
90			90	27.25	{ 2.78 }	28.8		32.4		36.0			
100			100	24.53	{ 2.50 }	32.0		36.0		40.0			
125			125	19.62	{ 2.00 }	40.0		45.0		50.0			
150			150	16.35	{ 1.67 }	48.0		54.0		60.0			
175			175	14.02	{ 1.43 }	56.0		63.0		70.0			
200	200	12.26	{ 1.25 }	64.0	72.0	80.0							

1N = 0.102 Kgf

1N (牛顿) = 0.102 Kgf (千克)

Load (N) = Spring Constant (N/mm) × Deflection (mm)

负荷 (N) = 弹簧常数 (N/mm) × 压缩量 (mm)



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规格表
轻负荷 TL

Model 型号	Outside Diameter 外径 (mm)	Inside Diameter 内径 (mm)	Free length 自由长 (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TL 30 × 25	30	15	25	118.78	{ 12.11 }	8.0	951 { 97.0 }	9.0	1,069 { 109.0 }	10.0	1,187 { 121.0 }
30			30	98.98	{ 10.09 }	9.6		10.8			
35			35	84.84	{ 8.65 }	11.2		12.6			
40			40	74.24	{ 7.57 }	12.8		14.4			
45			45	65.99	{ 6.73 }	14.4		16.2			
50			50	59.39	{ 6.06 }	16.0		18.0			
55			55	53.99	{ 5.51 }	17.6		19.8			
60			60	49.49	{ 5.05 }	19.2		21.6			
65			65	45.68	{ 4.66 }	20.8		23.4			
70			70	42.42	{ 4.33 }	22.4		25.2			
75			75	39.59	{ 4.04 }	24.0		27.0			
80			80	37.12	{ 3.78 }	25.6		28.8			
90			90	32.99	{ 3.36 }	28.8		32.4			
100			100	29.69	{ 3.03 }	32.0		36.0			
125			125	23.76	{ 2.42 }	40.0		45.0			
150			150	19.80	{ 2.02 }	48.0		54.0			
175			175	16.97	{ 1.73 }	56.0		63.0			
200	200	14.85	{ 1.51 }	64.0	72.0						
TL 35 × 40	35	17.5	40	101.46	{ 10.35 }	12.8	1,295 { 132.1 }	14.4	1,461 { 149.0 }	16.0	1,618 { 165.0 }
45			45	90.19	{ 9.20 }	14.4		16.2			
50			50	81.17	{ 8.28 }	16.0		18.0			
55			55	73.79	{ 7.52 }	17.6		19.8			
60			60	67.64	{ 6.90 }	19.2		21.6			
65			65	62.44	{ 6.37 }	20.8		23.4			
70			70	57.98	{ 5.91 }	22.4		25.2			
75			75	54.11	{ 5.52 }	24.0		27.0			
80			80	50.73	{ 5.17 }	25.6		28.8			
90			90	45.09	{ 4.60 }	28.8		32.4			
100			100	40.58	{ 4.14 }	32.0		36.0			
125			125	32.47	{ 3.31 }	40.0		45.0			
150			150	27.06	{ 2.76 }	48.0		54.0			
175			175	23.19	{ 2.36 }	56.0		63.0			
200	200	20.29	{ 2.07 }	64.0	72.0						
TL 40 × 40	40	20	40	132.15	{ 13.48 }	12.8	1,697 { 173.0 }	14.4	1,903 { 194.1 }	16.0	2,120 { 216.2 }
45			45	117.47	{ 11.98 }	14.4		16.2			
50			50	105.72	{ 10.78 }	16.0		18.0			
55			55	96.11	{ 9.80 }	17.6		19.8			
60			60	88.10	{ 8.98 }	19.2		21.6			
65			65	81.32	{ 8.29 }	20.8		23.4			
70			70	75.52	{ 7.70 }	22.4		25.2			
75			75	70.48	{ 7.19 }	24.0		27.0			
80			80	66.08	{ 6.74 }	25.6		28.8			
90			90	58.73	{ 5.99 }	28.8		32.4			
100			100	52.86	{ 5.39 }	32.0		36.0			
125			125	42.29	{ 4.31 }	40.0		45.0			
150			150	35.24	{ 3.59 }	48.0		54.0			
175			175	30.21	{ 3.08 }	56.0		63.0			
200			200	26.43	{ 2.70 }	64.0		72.0			
225			225	23.49	{ 2.40 }	72.0		81.0			
250			250	21.14	{ 2.16 }	80.0		90.0			
275	275	19.22	{ 1.96 }	88.0	99.0						
300	300	17.62	{ 1.80 }	96.0	108.0						

1N = 0.102 Kgf
1N (牛顿) = 0.102 Kgf (千克)

Load (N) = Spring Constant (N/mm) × Deflection (mm)
负荷 (N) = 弹簧常数 (N/mm) × 压缩量 (mm)



NEW 新产品 TL70

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TL

Model 型号	Outside Diameter 外径 (mm)	Inside Diameter 内径 (mm)	Free length 自由长 (mm)	Spring Constant 弹簧常数		Free length × 32.0% 1,000,000 cycles 自由长 × 32.0% 100万次		Free length × 36.0% 500,000 cycles 自由长 × 36.0% 50万次		Free length × 40.0% 300,000 cycles 自由长 × 40.0% 30万次	
				(N/mm)	(kgf/mm)	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]	Deflection 压缩量 (mm)	Load 负荷 N [kgf]
TL 50 × 50	50	25	50	165.56	{16.88}	16.0	2,650 {270.2}	18.0	2,980 {303.9}	20.0	3,310 {337.5}
55			55	150.51	{15.35}	17.6		19.8		22.0	
60			60	137.96	{14.07}	19.2		21.6		24.0	
65			65	127.35	{12.99}	20.8		23.4		26.0	
70			70	118.25	{12.06}	22.4		25.2		28.0	
75			75	110.37	{11.25}	24.0		27.0		30.0	
80			80	103.47	{10.55}	25.6		28.8		32.0	
90			90	91.98	{9.38}	28.8		32.4		36.0	
100			100	82.78	{8.44}	32.0		36.0		40.0	
125			125	66.22	{6.75}	40.0		45.0		50.0	
150			150	55.19	{5.63}	48.0		54.0		60.0	
175			175	47.30	{4.82}	56.0		63.0		70.0	
200			200	41.39	{4.22}	64.0		72.0		80.0	
225			225	36.79	{3.75}	72.0		81.0		90.0	
250			250	33.11	{3.38}	80.0		90.0		100.0	
275			275	30.10	{3.07}	88.0		99.0		110.0	
300			300	27.59	{2.81}	96.0		108.0		120.0	
350			350	23.65	{2.41}	112.0		126.0		140.0	
400			400	20.69	{2.11}	128.0		144.0		160.0	
450			450	18.40	{1.88}	144.0		162.0		180.0	
500	500	16.56	{1.69}	160.0	180.0	200.0					
TL 60 × 60	60	30	60	198.61	{20.25}	19.2	3,810 {388.5}	21.6	4,290 {437.5}	24.0	4,770 {486.4}
70			70	170.24	{17.36}	22.4		25.2		28.0	
80			80	148.96	{15.19}	25.6		28.8		32.0	
90			90	132.41	{13.50}	28.8		32.4		36.0	
100			100	119.17	{12.15}	32.0		36.0		40.0	
125			125	95.33	{9.72}	40.0		45.0		50.0	
150			150	79.44	{8.10}	48.0		54.0		60.0	
175			175	68.10	{6.94}	56.0		63.0		70.0	
200			200	59.58	{6.08}	64.0		72.0		80.0	
225			225	52.96	{5.40}	72.0		81.0		90.0	
250			250	47.67	{4.86}	80.0		90.0		100.0	
275			275	43.33	{4.42}	88.0		99.0		110.0	
300			300	39.72	{4.05}	96.0		108.0		120.0	
350			350	34.05	{3.47}	112.0		126.0		140.0	
400			400	29.79	{3.04}	128.0		144.0		160.0	
450			450	26.48	{2.70}	144.0		162.0		180.0	
500	500	23.83	{2.43}	160.0	180.0	200.0					
TL 70 × 70	70	38.5	70	217.86	{22.22}	22.4	4,880 {497.6}	25.2	5,490 {559.8}	28.0	6,100 {622.0}
80			80	190.63	{19.44}	25.6		28.8		32.0	
90			90	169.44	{17.28}	28.8		32.4		36.0	
100			100	152.50	{15.55}	32.0		36.0		40.0	
125			125	122.00	{12.44}	40.0		45.0		50.0	
150			150	101.67	{10.37}	48.0		54.0		60.0	
175			175	87.14	{8.89}	56.0		63.0		70.0	
200			200	76.25	{7.78}	64.0		72.0		80.0	
225			225	67.78	{6.91}	72.0		81.0		90.0	
250			250	61.00	{6.22}	80.0		90.0		100.0	
275			275	55.45	{5.65}	88.0		99.0		110.0	
300			300	50.83	{5.18}	96.0		108.0		120.0	
350	350	43.57	{4.44}	112.0	126.0	140.0					

1N = 0.102 Kgf
1N (牛顿) = 0.102 Kgf (千克)

Load (N) = Spring Constant (N/mm) × Deflection (mm)
负荷 (N) = 弹簧常数 (N/mm) × 压缩量 (mm)