

弹簧尺寸价格表

单位: 元/条

规格(modle) 外径×内径×长度 D _h ×D _i ×L ₀	价格	刚度	压缩量 deflection 40% 1.000.000		压缩量 deflection 45% 500.000		压缩量 deflection 50% 300.000	
			φ/mm	Kgf{N}	φ/mm	Kgf{N}	φ/mm	Kgf{N}
SF14×7×25	5.8	1.44	10.0	14.5 {142.2}	11.2	16 {156.9}	12.5	18 {176.5}
30	6.6	1.20	12.0					
35	7.4	1.03	14.0					
40	8.2	0.90	16.0					
45	9.0	0.80	18.0					
50	9.8	0.72	20.0					
55	10.6	0.65	22.0					
60	11.4	0.60	24.0					
65	12.2	0.55	26.0					
70	13.0	0.51	28.0					
75	13.8	0.48	30.0					
80	14.6	0.45	32.0					
90	16.2	0.40	36.0					
SF16×8×25	6.6	1.68	10.0					
30	7.4	1.40	12.0	17 {166.7}	11.2	19 {186.3}	12.5	21 {206}
35	8.2	1.20	14.0					
40	9.0	1.05	16.0					
45	9.8	0.94	18.0					
50	10.6	0.84	20.0					
55	11.4	0.77	22.0					
60	12.2	0.70	24.0					
65	13.0	0.65	26.0					
70	13.5	0.60	28.0					
75	14.6	0.56	30.0					
80	15.4	0.53	32.0					
90	17.0	0.47	36.0					
100	18.6	0.42	40.0					
SF18×9×25	7.4	2.08	10.0					
30	8.2	1.74	12.0	21 {206}	11.2	23 {226}	12.5	26 {255}
35	9.0	1.49	14.0					
40	9.8	1.30	16.0					
45	10.6	1.16	18.0					
50	11.4	1.04	20.0					
55	12.2	0.95	22.0					
60	13.0	0.87	24.0					
65	13.8	0.80	26.0					
70	14.6	0.74	28.0					
75	15.4	0.70	30.0					
80	16.2	0.65	32.0					
90	17.5	0.58	36.0					
100	19.2	0.52	40.0					
SF20×11×25	8.5	2.56	10.0					
30	8.9	2.13	12.0	26 {255}	11.2	29 {284}	12.5	32 {314}
35	9.6	1.83	14.0					
40	10.4	1.60	16.0					
45	11.2	1.42	18.0					
50	12.0	1.28	20.0					
55	12.8	1.16	22.0					
60	13.6	1.07	24.0					
65	14.2	0.98	26.0					
70	15.0	0.91	28.0					
75	15.8	0.85	30.0					
80	16.8	0.80	32.0					
90	18.3	0.71	36.0					
100	20.0	0.64	40.0					
125	24.0	0.51	50.0					
150	28.0	0.43	60.0					
SF22×11×25	9.0	3.20	10.0	32 {314}	11.2	36 {353}	12.5	40 {392}
30	10.2	2.67	12.0					
35	11.5	2.29	14.0					
40	12.7	2.50	16.0					

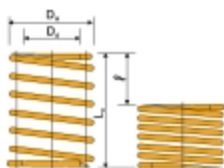
1N=0.102kgf

弹簧尺寸价格表

单位: 元/条

规格(modle) 外径×内径×长度 D _h ×D _i ×L ₀	价格	刚度	压缩量 deflection 40% 1.000.000		压缩量 deflection 45% 500.000		压缩量 deflection 50% 300.000	
			φ/mm	Kgf{N}	φ/mm	Kgf{N}	φ/mm	Kgf{N}
SF22×11×45	13.9	1.78	18.0	32 {314}	20.2	36 {353}	22.5	40 {392}
50	15.1	1.60	20.0					
55	16.3	1.46	22.0					
60	17.5	1.33	24.0					
65	18.7	1.23	26.0					
70	19.8	1.14	28.0					
75	21.1	1.07	30.0					
80	22.2	1.00	32.0					
90	24.8	0.89	36.0					
100	26.1	0.80	40.0					
125	33.0	0.64	50.0					
150	39.0	0.53	60.0					
SF25×13.5×25	10.0	4.00	10.0					
30	11.1	3.33	12.0		40 {392}		11.2	
35	12.3	2.85	14.0					
40	13.5	2.50	16.0					
45	14.7	2.22	18.0					
50	15.9	2.00	20.0					
55	17.1	1.80	22.0					
60	18.3	1.67	24.0					
65	19.5	1.54	26.0					
70	20.8	1.43	28.0					
75	22.0	1.33	30.0					
80	23.0	1.25	32.0					
90	25.0	1.11	36.0					
100	27.8	1.00	40.0					
125	33.0	0.80	50.0					
150	38.9	0.67	60.0					
175	44.5	0.75	70.0					
SF27×13.5×25	10.5	4.80	10.0					
30	12.3	4.00	12.0	48 {470.7}	11.2	54 {529.6}	12.5	60 {588.4}
35	14.0	3.42	14.0					
40	15.5	3.00	16.0					
45	17.0	2.67	18.0					
50	18.8	2.40	20.0					
55	20.3	2.18	22.0					
60	22.0	2.00	24.0					
65	23.5	1.85	26.0					
70	25.0	1.71	28.0					
75	26.8	1.60	30.0					
80	28.4	1.50	32.0					
90	31.0	1.33	36.0					
100	34.0	1.20	40.0					
125	42.0	0.96	50.0					
150	50.0	0.80	60.0					
175	58.0	0.68	70.0					
SF30×16×25	12.0	5.80	10.0					
30	14.0	4.80	12.0	58 {569}	11.2	65 {637}	12.5	72 {706}
35	15.8	4.13	14.0					
40	17.5	3.60	16.0					
45	18.5	3.21	18.0					
50	20.0	2.88	20.0					
55	21.5	2.63	22.0					
60	23.5	2.40	24.0					
65	25.0	2.22	26.0					
70	26.8	2.05	28.0					
75	28.1	1.93	30.0					
80	29.0	1.80	32.0					
90	33.0	1.60	36.0					
100	36.0	1.44	40.0					
125	44.0	1.15	50.0					

1N=0.102kgf



注文方法: $SF \cdot \Phi \times 10-100$
代号 规格, 自由长, 圈数

公制(日本)标准模具弹簧
Metric(japanese)standards molding springs

SF 轻小荷重(黄色) SF Lighter load(Yellow)

荷重计算方式

弹簧刚度 $\text{kgf/mm} \times \Phi^2$ (压缩量) $\rightarrow \text{kgf}$ (荷重) 荷-代号 $8F8 \times 10$ (30万回时)

刚度 $\text{kgf/mm} > \Phi^2$ (压缩量) $\rightarrow \text{kgf}$ (荷重)
1.3EX5-B

SF 弹簧使用回数与压缩比的关系

种类\使用回数	100万次	30万回	20万回	最大压缩量
SF	自由长L ₀ 的40%	自由长L ₀ 的45%	自由长L ₀ 的50%	自由长L ₀ 的55%

弹簧尺寸价格表

单位: 元/条

规格(mode) 外径×内径×长度 D _e ×D ₁ ×L ₀	价格	刚度	压缩量 deflection 40% 1,000,000	压缩量 deflection 45% 500,000	压缩量 deflection 50% 300,000
mm	RMB	kgf/mm	φ/mm	φ/mm	φ/mm
SF 6×3×10	8.0	1.20	4.0	4.5	5.0
15	8.0	0.80	6.0	6.75	7.5
20	8.4	0.60	8.0	9.0	10.0
25	9.2	0.48	10.0	11.25	12.5
30	9.6	0.40	12.0	13.5	15.0
35	10.4	0.34	14.0	15.75	17.5
40	10.8	0.30	16.0	18.0	20.0
45	11.6	0.27	18.0	20.25	22.5
50	12.4	0.24	20.0	22.5	25.0
55	13.2	0.22	22.0	24.75	27.5
60	13.6	0.20	24.0	27.0	30.0
SF 8×4×10	4.3	1.56	4.0	4.5	5.0
15	4.3	1.04	6.0	6.8	7.5
20	4.6	0.78	8.0	9.0	10.0
25	4.9	0.62	10.0	11.2	12.5
30	5.2	0.52	12.0	13.5	15.0
35	5.5	0.44	14.0	15.7	17.5
40	5.8	0.39	16.0	18.0	20.0
45	6.1	0.35	18.0	20.2	22.5
50	6.4	0.31	20.0	22.5	25.0
55	6.7	0.28	22.0	24.7	27.5
60	7.0	0.26	24.0	27.0	30.0
SF 10×5×20	4.6	1.00	8.0	9.0	10.0
25	5.0	0.80	10.0	11.2	12.5
30	5.4	0.67	12.0	13.5	15.0
35	5.8	0.57	14.0	15.7	17.5
40	6.2	0.50	16.0	18.0	20.0
45	6.6	0.44	18.0	20.2	22.5
50	7.0	0.40	20.0	22.5	25.0
55	7.4	0.36	22.0	24.7	27.5
60	7.8	0.33	24.0	27.0	30.0
65	8.2	0.31	26.0	29.2	32.5
70	8.6	0.29	28.0	31.5	35.0
75	9.0	0.27	30.0	33.7	37.5
80	9.4	0.25	32.0	36.0	40.0
SF 12×6×20	4.8	1.40	8.0	9.0	10.0
25	5.2	1.12	10.0	11.2	12.5
30	5.6	0.93	12.0	13.5	15.0
35	6.0	0.80	14.0	15.7	17.5
40	6.4	0.70	16.0	18.0	20.0
45	6.8	0.62	18.0	20.2	22.5
50	7.2	0.56	20.0	22.5	25.0
55	7.6	0.51	22.0	24.7	27.5
60	8.0	0.47	24.0	27.0	30.0
65	8.4	0.43	26.0	29.2	32.5
70	8.8	0.40	28.0	31.5	35.0
75	9.2	0.37	30.0	33.7	37.5
80	9.6	0.35	32.0	36.0	40.0

1N=0.102kgf

彈簧尺寸價格表

單位：元/條

規格 (model) 外徑×內徑×長度 D _o ×D _i ×L _s	價格	剛度	壓縮量 deflection 40% 1,000,000		壓縮量 deflection 45% 500,000		壓縮量 deflection 50% 300,000	
			mm	RMB	kgf/mm	φ/mm	Kgf(N)	φ/mm
SF30×16×150	52.0	0.96	60.0	58 (569)	67.5	85 (837)	75.0	72 (706)
175	60.0	0.82	70.0		78.7		87.5	
200	70.0	0.72	80.0		90.0		100.0	
SF35×19×40	19.4	4.90	16.0	78 (765)	18.0	88 (863)	20.0	98 (961)
45	21.4	4.36	18.0		20.2		22.5	
50	23.0	3.92	20.0		22.5		25.0	
55	25.4	3.56	22.0		24.7		27.5	
60	27.0	3.26	24.0		27.0		30.0	
65	29.4	3.02	26.0		29.2		32.5	
70	31.0	2.80	28.0		31.5		35.0	
75	33.3	2.61	30.0		33.7		37.5	
80	35.0	2.45	32.0		36.0		40.0	
90	39.0	2.17	36.0		40.5		45.0	
100	43.0	1.96	40.0		45.0		50.0	
125	53.0	1.54	50.0		56.2		62.5	
150	63.0	1.30	60.0		67.5		75.0	
175	74.0	1.12	70.0		78.7		87.5	
200	84.0	0.98	80.0		90.0		100.0	
SF40×22×40	24.0	6.38	16.0	102 (1000)	18.0	115 (1128)	20.0	128 (1255)
50	28.0	5.12	20.0		22.5		25.0	
60	34.0	4.26	24.0		27.0		30.0	
70	39.0	3.65	28.0		31.5		35.0	
80	44.0	3.20	32.0		36.0		40.0	
90	49.0	2.84	36.0		40.5		45.0	
100	54.0	2.56	40.0		45.0		50.0	
125	67.0	2.04	50.0		56.2		62.5	
150	79.8	1.70	60.0		67.5		75.0	
175	92.5	1.46	70.0		78.7		87.5	
200	104.0	1.28	80.0		90.0		100.0	
250	128.5	1.02	100.0		112.5		125.0	
SF50×27.5×50	37.0	8.00	20.0	160 (1569)	22.5	180 (1765)	25.0	200 (1961)
60	45.0	6.66	24.0		27.0		30.0	
70	53.5	5.71	28.0		31.5		35.0	
80	62.5	5.00	32.0		36.0		40.0	
90	73.5	4.44	36.0		40.5		45.0	
100	87.5	4.00	40.0		45.0		50.0	
125	102.5	3.20	50.0		56.2		62.5	
150	118.0	2.66	60.0		67.5		75.0	
175	134.5	2.28	70.0		78.7		87.5	
200	149.0	2.00	80.0		90.0		100.0	
250	181.5	1.06	100.0		112.5		125.0	
300	212.5	1.33	120.0		135.0		150.0	
350	249.5	1.14	140.0		157.5		175.0	
400	286.5	1.00	160.0		180.0		200.0	
450	323.5	0.89	180.0		202.5		225.0	
500	360.5	0.80	200.0	225.0	250.0			
SF60×33×60	62.0	9.59	24.0	230 (2256)	27.0	259 (2540)	30.0	288 (2824)
70	76.5	8.22	28.0		31.5		35.0	
80	102.5	7.19	32.0		36.0		40.0	
90	108.0	6.40	36.0		40.5		45.0	
100	121.0	5.76	40.0		45.0		50.0	
125	148.5	4.60	50.0		56.2		62.5	
150	181.0	3.84	60.0		67.5		75.0	
175	213.0	3.29	70.0		78.7		87.5	
200	237.0	2.88	80.0		90.0		100.0	
250	297.0	2.30	100.0		112.5		125.0	
300	356.5	1.92	120.0		135.0		150.0	
350	418.0	1.65	140.0		157.5		175.0	
400	477.5	1.44	160.0		180.0		200.0	
450	539.0	1.28	180.0		202.0		225.0	
500	594.0	1.15	200.0		225.0		250.0	

1N=0.102kgf