

삼솔스프링 규격사이즈(외경/자유장) (Standardized products)

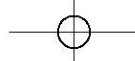
자유장 (自由長) mm	외경(外徑O.D)mm																		
	6	8	10	12	14	16	18	20	22	25	27	30	35	40	50	60	70		
10		●																	
15	●	●																	
20	●	●	●	●															
25	●	●	●	●	●	●	●	●	●	●	●	●							
30	●	●	●	●	●	●	●	●	●	●	●	●	●						
35	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
45	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
50	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
55	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
60	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
65	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
70	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
75		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
80		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
90		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
100			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
125				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
150						●	●	●	●	●	●	●	●	●	●	●	●	●	●
175							●	●	●	●	●	●	●	●	●	●	●	●	●
200								●	●	●	●	●	●	●	●	●	●	●	●
225									●	●	●	●	●	●	●	●	●	●	●
250										●	●	●	●	●	●	●	●	●	●
275											●	●	●	●	●	●	●	●	●
300												●	●	●	●	●	●	●	●
350													●	●	●	●	●	●	●
400														●	●	●	●	●	●
450															●	●	●	●	●
500																●	●	●	●

輕少荷重
경소하중
LIGHTEST LOAD

SF

하중 荷重 ±10%
직각도 直角度 2° 以下
자유장 自由長 50m/m 以下 ±0.5m/m
55m/m 以上 ± 1%

呼稱 호 칭 Model	외경 외경(mm) Outer Dia.	내경 내경(mm) Inner Dia.	자유장 자유장(mm) Free length	定數 정수(kg/mm) spring constant	30萬 (0.3million)		50萬 (0.5 million)		100萬 (1 million)	
					變形量 변형량(mm) Deflection	荷重 하중(kgf) Load	變形量 변형량(mm) Deflection	荷重 하중(kgf) Load	變形量 변형량(mm) Deflection	荷重 하중(kgf) Load
SF 6x 15	6	3	5	0.80	7.5	6	6.8	5.4	6.0	4.8
20			20	0.60	10.0		9.0		8.0	
25			25	0.48	12.5		11.3		10.0	
30			30	0.40	15.0		13.5		12.0	
35			35	0.34	17.5		15.8		14.0	
40			40	0.30	20.0		18.0		16.0	
45			45	0.27	22.5		20.3		18.0	
50			50	0.24	25.0		22.5		20.0	
55			55	0.22	27.5		24.8		22.0	
60			60	0.20	30.0		27.0		24.0	
65			65	0.18	32.5		29.3		26.0	
70			70	0.17	35.0		31.5		28.0	
SF 8x 10	8	4	10	1.56	5.0	8	4.5	7	4.0	6
15			15	1.04	7.5		6.8		6.0	
20			20	0.78	10.0		9.0		8.0	
25			25	0.62	12.5		11.2		10.0	
30			30	0.52	15.0		13.5		12.0	
35			35	0.44	17.5		15.7		14.0	
40			40	0.39	20.0		18.0		16.0	
45			45	0.35	22.5		20.2		18.0	
50			50	0.31	25.0		22.5		20.0	
55			55	0.28	27.5		24.7		22.0	
60			60	0.26	30.0		27.0		24.0	
65			65	0.24	32.5		29.2		26.0	
70			70	0.22	35.0		31.5		28.0	
75			75	0.21	37.5		33.7		30.0	
80			80	0.20	40.0		36.0		32.0	
90			90	0.17	45.0		40.5		36.0	
SF10x 10	10	5	10	2.00	5.0	10	4.5	9	4.0	8
15			15	1.32	7.5		6.8		6.0	
20			20	1.00	10.0		9.0		8.0	
25			25	0.80	12.5		11.2		10.0	
30			30	0.67	15.0		13.5		12.0	
35			35	0.57	17.5		15.7		14.0	
40			40	0.50	20.0		18.0		16.0	
45			45	0.44	22.5		20.2		18.0	
50			50	0.40	25.0		22.5		20.0	
55			55	0.36	27.5		24.7		22.0	
60			60	0.33	30.0		27.0		24.0	
65			65	0.31	32.5		29.2		26.0	
70			70	0.29	35.0		31.5		28.0	
75			75	0.27	37.5		33.7		30.0	
80			80	0.25	40.0		36.0		32.0	
90			90	0.22	45.0		40.5		36.0	
100			100	0.20	50.0		45.0		40.0	



輕少荷重
경소하중
LIGHTEST LOAD

SF

하중 荷重 $\pm 10\%$
직각도 直角度 2° 以下
자유장 自由長 50m/m 以下 $\pm 0.5\text{m/m}$
55m/m 以上 $\pm 1\%$

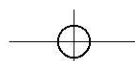
呼稱 호칭 Model	外形 외경(mm) Outer Dia.	내경 내경(mm) Inner Dia.	자유장 자유장(mm) Free length	定數 정수(kg/mm) spring constant	30万 (0.3million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	50万 (0.5 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	100万 (1 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load
SF 12×20			20	1.40	10.0		9.0		8.0	
25			25	1.12	12.5		11.2		10.0	
30			30	0.93	15.0		13.5		12.0	
35			35	0.80	17.5		15.7		14.0	
40			40	0.70	20.0		18.0		16.0	
45			45	0.62	22.5		20.2		18.0	
50			50	0.56	25.0		22.5		20.0	
55			55	0.51	27.5		24.7		22.0	
60			60	0.47	30.0		27.0		24.0	
65			65	0.43	32.5		29.2		26.0	
70			70	0.40	35.0		31.5		28.0	
75			75	0.37	37.5		33.7		30.0	
80			80	0.35	40.0		36.0		32.0	
90			90	0.31	45.0		40.5		36.0	
100			100	0.28	50.0		45.0		40.0	
SF 14×20			20	1.78	10.0		9.0		8.0	
25			25	1.44	12.5		11.2		10.0	
30			30	1.20	15.0		13.5		12.0	
35			35	1.03	17.5		15.7		14.0	
40			40	0.90	20.0		18.0		16.0	
45			45	0.80	22.5		20.2		18.0	
50			50	0.72	25.0		22.5		20.0	
55			55	0.65	27.5		24.7		22.0	
60			60	0.60	30.0		27.0		24.0	
65			65	0.55	32.5		29.2		26.0	
70			70	0.51	35.0		31.5		28.0	
75			75	0.48	37.5		33.7		30.0	
80			80	0.45	40.0		36.0		32.0	
90			90	0.40	45.0		40.5		36.0	
100			100	0.36	50.0		45.0		40.0	
125			125	0.29	62.5		56.2		50.0	
SF 16×20			20	2.11	10.0		9.0		8.0	
25			25	1.68	12.5		11.2		10.0	
30			30	1.40	15.0		13.5		12.0	
35			35	1.20	17.5		15.7		14.0	
40			40	1.05	20.0		18.0		16.0	
45			45	0.94	22.5		20.2		18.0	
50			50	0.84	25.0		22.5		20.0	
55			55	0.77	27.5		24.7		22.0	
60			60	0.70	30.0		27.0		24.0	
65			65	0.65	32.5		29.2		26.0	
70			70	0.60	35.0		31.5		28.0	
75			75	0.56	37.5		33.7		30.0	
80			80	0.53	40.0		36.0		32.0	
90			90	0.47	45.0		40.5		36.0	
100			100	0.42	50.0		45.0		40.0	
125			125	0.34	62.5		56.2		50.0	

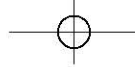
輕少荷重
경소하중
LIGHTEST LOAD

SF

하중 荷重 $\pm 10\%$
직각도 直角度 2° 以下
자유장 自由長 50m/m 以下 $\pm 0.5\text{m/m}$
55m/m 以上 $\pm 1\%$

呼稱 호칭 Model	外形 외경(mm) Outer Dia.	내경 내경(mm) Inner Dia.	자유장 자유장(mm) Free length	定數 정수(kg/mm) spring constant	30万 (0.3million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	50万 (0.5 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	100万 (1 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load
SF 18×20			20	2.56	10.0		9.0		8.0	
25			25	2.08	12.5		11.2		10.0	
30			30	1.74	15.0		13.5		12.0	
35			35	1.49	17.5		15.7		14.0	
40			40	1.30	20.0		18.0		16.0	
45			45	1.16	22.5		20.2		18.0	
50			50	1.04	25.0		22.5		20.0	
55			55	0.95	27.5		24.7		22.0	
60			60	0.87	30.0		27.0		24.0	
65			65	0.80	32.5		29.2		26.0	
70			70	0.74	35.0		31.5		28.0	
75			75	0.70	37.5		33.7		30.0	
80			80	0.65	40.0		36.0		32.0	
90			90	0.58	45.0		40.5		36.0	
100			100	0.52	50.0		45.0		40.0	
125			125	0.42	62.5		56.2		50.0	
SF 20×20			20	3.22	10.0		9.0		8.0	
25			25	2.56	12.5		11.2		10.0	
30			30	2.13	15.0		13.5		12.0	
35			35	1.83	17.5		15.7		14.0	
40			40	1.60	20.0		18.0		16.0	
45			45	1.42	22.5		20.2		18.0	
50			50	1.28	25.0		22.5		20.0	
55			55	1.16	27.5		24.7		22.0	
60			60	1.07	30.0		27.0		24.0	
65			65	0.98	32.5		29.2		26.0	
70			70	0.91	35.0		31.5		28.0	
75			75	0.85	37.5		33.7		30.0	
80			80	0.80	40.0		36.0		32.0	
90			90	0.71	45.0		40.5		36.0	
100			100	0.64	50.0		45.0		40.0	
125			125	0.51	62.5		56.2		50.0	
150			150	0.43	75.0		67.5		60.0	
175			175	0.37	87.5		78.7		70.0	
SF 22×25			25	3.20	12.5		11.2		10.0	
30			30	2.67	15.0		13.5		12.0	
35			35	2.29	17.5		15.7		14.0	
40			40	2.00	20.0		18.0		16.0	
45			45	1.78	22.5		20.2		18.0	
50			50	1.60	25.0		22.5		20.0	
55			55	1.46	27.5		24.7		22.0	
60			60	1.33	30.0		27.0		24.0	
65			65	1.23	32.5		29.2		26.0	
70			70	1.14	35.0		31.5		28.0	
75			75	1.07	37.5		33.7		30.0	
80			80	1.00	40.0		36.0		32.0	
90			90	0.89	45.0		40.5		36.0	
100			100	0.80	50.0		45.0		40.0	
125			125	0.64	62.5		56.2		50.0	
150			150	0.53	75.0		67.5		60.0	
175			175	0.46	87.5		78.7		70.0	





輕少荷重
경소하중
LIGHTEST LOAD

SF

하중 荷重 $\pm 10\%$
직각도 直角度 2° 以下
자유장 自由長 50m/m 以下 $\pm 0.5\text{m/m}$
55m/m 以上 $\pm 1\%$

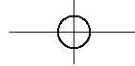
呼稱 호칭 Model	外形 외경(mm) Outer Dia.	내경 내경(mm) Inner Dia.	자유장 자유장(mm) Free length	定數 정수(kg/mm) spring constant	30万 (0.3million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	50万 (0.5 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	100万 (1 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load
SF25×25			25	4.00	12.5		11.2		10.0	
30			30	3.33	15.0		13.5		12.0	
35			35	2.85	17.5		15.7		14.0	
40			40	2.50	20.0		18.0		16.0	
45			45	2.22	22.5		20.2		18.0	
50			50	2.00	25.0		22.5		20.0	
55			55	1.82	27.5		24.7		22.0	
60			60	1.67	30.0		27.0		24.0	
65			65	1.54	32.5		29.2		26.0	
70			70	1.43	35.0		31.5		28.0	
75			75	1.33	37.5		33.7		30.0	
80			80	1.25	40.0		36.0		32.0	
90			90	1.11	45.0		40.5		36.0	
100			100	1.00	50.0		45.0		40.0	
125			125	0.80	62.5		56.2		50.0	
150			150	0.67	75.0		67.5		60.0	
175			175	0.57	87.5		78.7		70.0	
200			200	0.50	100.0		90.0		80.0	
SF27×25			25	4.80	12.5		11.2		10.0	
30			30	4.00	15.0		13.5		12.0	
35			35	3.43	17.5		15.7		14.0	
40			40	3.00	20.0		18.0		16.0	
45			45	2.67	22.5		20.2		18.0	
50			50	2.40	25.0		22.5		20.0	
55			55	2.18	27.5		24.7		22.0	
60			60	2.00	30.0		27.0		24.0	
65			65	1.85	32.5		29.2		26.0	
70			70	1.71	35.0		31.5		28.0	
75			75	1.60	37.5		33.7		30.0	
80			80	1.50	40.0		36.0		32.0	
90			90	1.33	45.0		40.5		36.0	
100			100	1.20	50.0		45.0		40.0	
125			125	0.96	62.5		56.2		50.0	
150			150	0.80	75.0		67.5		60.0	
175			175	0.69	87.5		78.7		70.0	
200			200	0.60	100.0		90.0		80.0	
SF30×25			25	5.80	12.5		11.2		10.0	
30			30	4.83	15.0		13.5		12.0	
35			35	4.13	17.5		15.7		14.0	
40			40	3.60	20.0		18.0		16.0	
45			45	3.21	22.5		20.2		18.0	
50			50	2.88	25.0		22.5		20.0	
55			55	2.63	27.5		24.7		22.0	
60			60	2.40	30.0		27.0		24.0	
65			65	2.22	32.5		29.2		26.0	
70			70	2.05	35.0		31.5		28.0	
75			75	1.93	37.5		33.7		30.0	
80			80	1.80	40.0		36.0		32.0	
90			90	1.60	45.0		40.5		36.0	
100			100	1.44	50.0		45.0		40.0	
125			125	1.15	62.5		56.2		50.0	
150			150	0.96	75.0		67.5		60.0	
175			175	0.82	87.5		78.7		70.0	
200			200	0.72	100.0		90.0		80.0	

輕少荷重
경소하중
LIGHTEST LOAD

SF

하중 荷重 $\pm 10\%$
직각도 直角度 2° 以下
자유장 自由長 50m/m 以下 $\pm 0.5\text{m/m}$
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呼稱 호칭 Model	外形 외경(mm) Outer Dia.	내경 내경(mm) Inner Dia.	자유장 자유장(mm) Free length	定數 정수(kg/mm) spring constant	30万 (0.3million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	50万 (0.5 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	100万 (1 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load
SF35×35			35	5.60	17.5		15.7		14.0	
40			40	4.90	20.0		18.0		16.0	
45			45	4.36	22.5		20.2		18.0	
50			50	3.92	25.0		22.5		20.0	
55			55	3.56	27.5		24.7		22.0	
60			60	3.26	30.0		27.0		24.0	
65			65	3.02	32.5		29.2		26.0	
70			70	2.80	35.0		31.5		28.0	
75			75	2.61	37.5		33.7		30.0	
80			80	2.45	40.0		36.0		32.0	
90			90	2.17	45.0		40.5		36.0	
100			100	1.96	50.0		45.0		40.0	
125			125	1.57	62.5		56.2		50.0	
150			150	1.30	75.0		67.5		60.0	
175			175	1.12	87.5		78.7		70.0	
200			200	0.98	100.0		90.0		80.0	
SF40×40			40	6.38	20.0		18.0		16.0	
45			45	5.67	22.5		20.2		18.0	
50			50	5.12	25.0		22.5		20.0	
55			55	4.64	27.5		24.7		22.0	
60			60	4.26	30.0		27.0		24.0	
65			65	3.93	32.5		29.2		26.0	
70			70	3.65	35.0		31.5		28.0	
75			75	3.40	37.5		33.7		30.0	
80			80	3.20	40.0		36.0		32.0	
90			90	2.84	45.0		40.5		36.0	
100			100	2.56	50.0		45.0		40.0	
125			125	2.04	62.5		56.2		50.0	
150			150	1.70	75.0		67.5		60.0	
175			175	1.46	87.5		78.7		70.0	
200			200	1.28	100.0		90.0		80.0	
225			225	1.13	112.5		101.2		90.0	
250			250	1.02	125.0		112.5		100.0	
275			275	0.93	137.5		123.7		110.0	
300			300	0.85	150.0		135.0		120.0	
SF50×50			50	8.00	25.0		22.5		20.0	
55			55	7.27	27.5		24.7		22.0	
60			60	6.66	30.0		27.0		24.0	
65			65	6.15	32.5		29.2		26.0	
70			70	5.71	35.0		31.5		28.0	
75			75	5.33	37.5		33.7		30.0	
80			80	5.00	40.0		36.0		32.0	
90			90	4.44	45.0		40.5		36.0	
100			100	4.00	50.0		45.0		40.0	
125			125	3.20	62.5		56.2		50.0	
150			150	2.66	75.0		67.5		60.0	
175			175	2.28	87.5		78.7		70.0	
200			200	2.00	100.0		90.0		80.0	
225			225	1.78	112.5		101.2		90.0	
250			250	1.60	125.0		112.5		100.0	
275			275	1.45	137.5		123.7		110.0	
300			300	1.33	150.0		135.0		120.0	
350			350	1.14	175.0		157.5		140.0	
400			400	1.00	200.0		180.0		160.0	
450			450	0.89	225.0		202.5		180.0	
500			500	0.80	250.0		225.0		200.0	



輕少荷重
경소하중
LIGHTEST LOAD

SF

하중 荷重 $\pm 10\%$
직각도 直角度 2° 以下
자유장 自由長 50m/m 以下 ± 0.5 m/m
55m/m 以上 $\pm 1\%$

呼稱 호칭 Model	외경 외경(mm) Outer Dia.	내경 내경(mm) Inner Dia.	자유장 자유장(mm) Free length	定數 정수(kg/mm) spring constant	30万 (0.3million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	50万 (0.5 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	100万 (1 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load
SF 60×60			60	9.59	30.0		27.0		24.0	
70			70	8.22	35.0		31.5		28.0	
80			80	7.19	40.0		36.0		32.0	
90			90	6.40	45.0		40.5		36.0	
100			100	5.76	50.0		45.0		40.0	
125			125	4.60	62.5		56.2		50.0	
150			150	3.84	75.0		67.5		60.0	
175			175	3.29	87.5		78.7		70.0	
200			200	2.88	100.0		90.0		80.0	
225			225	2.56	112.5		101.3		90.0	
250			250	2.30	125.0		112.5		100.0	
275			275	2.09	137.5		123.8		110.0	
300			300	1.92	150.0		135.0		120.0	
350			350	1.65	175.0		157.5		140.0	
400			400	1.44	200.0		180.0		160.0	
450			450	1.28	225.0		202.5		180.0	
500			500	1.15	250.0		225.0		200.0	
SF 70×70			70	11.43	35.0		31.5		28.0	
80			80	10.00	40.0		36.0		32.0	
90			90	8.89	45.0		40.5		36.0	
100			100	8.00	50.0		45.0		40.0	
125			125	6.40	62.5		56.2		50.0	
150			150	5.33	75.0		67.5		60.0	
175			175	4.57	87.5		78.7		70.0	
200			200	4.00	100.0		90.0		80.0	
225			225	3.56	112.5		101.3		90.0	
250			250	3.20	125.0		112.5		100.0	
275			275	2.91	137.5		123.8		110.0	
300			300	2.67	150.0		135.0		120.0	
350			350	2.29	175.0		157.5		140.0	

Special 輕少荷重
Special 경소하중
Special LIGHTEST LOAD

SSF

하중 荷重 $\pm 10\%$
직각도 直角度 2° 以下
자유장 自由長 50m/m 以下 ± 0.5 m/m
55m/m 以上 $\pm 1\%$

呼稱 호칭 Model	외경 외경(mm) Outer Dia.	내경 내경(mm) Inner Dia.	자유장 자유장(mm) Free length	定數 정수(kg/mm) spring constant	30万 (0.3million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	50万 (0.5 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load	100万 (1 million) 변형량 변형량(mm) Deflection	하중 하중(kgf) Load
SSF 35×40			40	4.15	20.0		18.0		16.0	
45			45	3.69	22.5		20.2		18.0	
50			50	3.32	25.0		22.5		20.0	
55			55	3.02	27.5		24.8		22.0	
60			60	2.77	30.0		27.0		24.0	
65			65	2.55	32.5		29.3		26.0	
70			70	2.37	35.0		31.5		28.0	
75	35	21	75	2.21	37.5	83	33.8	74.7	30.0	66.4
80			80	2.08	40.0		36.0		32.0	
90			90	1.84	45.0		40.5		36.0	
100			100	1.66	50.0		45.0		40.0	
125			125	1.33	62.5		56.2		50.0	
150			150	1.11	75.0		67.5		60.0	
175			175	0.95	87.5		78.7		70.0	
200			200	0.83	100.0		90.0		80.0	
SSF 40×50			50	3.48	25.0		22.5		20.0	
60			60	2.90	30.0		27.0		24.0	
70			70	2.49	35.0		31.5		28.0	
80			80	2.18	40.0		36.0		32.0	
90			90	1.93	45.0		40.5		36.0	
100	40	26	100	1.74	50.0	87	45.0	78.3	40.0	69.6
125			125	1.39	62.5		56.2		50.0	
150			150	1.16	75.0		67.5		60.0	
175			175	0.99	87.5		78.7		70.0	
200			200	0.87	100.0		90.0		80.0	
250			250	0.70	125.0		112.5		100.0	
SSF 50×60			60	4.80	30.0		27.0		24.0	
70			70	4.11	35.0		31.5		28.0	
80			80	3.60	40.0		36.0		32.0	
90			90	3.20	45.0		40.5		36.0	
100			100	2.88	50.0		45.0		40.0	
125			125	2.30	62.5		56.2		50.0	
150			150	1.92	75.0		67.5		60.0	
175			175	1.65	87.5		78.7		70.0	
200			200	1.44	100.0		90.0		80.0	
250			250	1.15	125.0		112.5		100.0	
300			300	0.96	150.0		135.0		120.0	
SSF 60×90			90	4.18	45.0		40.5		36.0	
100			100	3.76	50.0		45.0		40.0	
125			125	3.01	62.5		56.2		50.0	
150			150	2.51	75.0		67.5		60.0	
175			175	2.15	87.5		78.7		70.0	
200			200	1.88	100.0		90.0		80.0	
250			250	1.50	125.0		112.5		100.0	
300			300	1.25	150.0		135.0		120.0	