

呼稱 호칭 Model	外徑 외경(mm) Outer Dia.	內徑 내경(mm) Inner Dia.	自由長 자유장(mm) Free length	定數 장수(kgf/mm) spring constant	30万 (0.3 million)		50万 (0.5 million)		100万 (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	
SB 8x10	8	4	10	16.94	2.0		1.8		1.6	26	
			15	11.30	3.0		2.7		2.4		
			20	8.47	4.0		3.6		3.2		
			25	6.78	5.0		4.5		4.0		
			30	5.65	6.0		5.4		4.8		
			35	4.84	7.0		6.3		5.6		
			40	4.24	8.0		7.2		6.4		
			45	3.77	9.0		8.1		7.2		
			50	3.39	10.0	35	9.0	31	8.0		8.0
			55	3.08	11.0		9.9		8.8		
			60	2.82	12.0		10.8		9.6		
			65	2.61	13.0		11.7		10.4		
			70	2.42	14.0		12.6		11.2		
SB 10x10	10	5	10	22.78	2.0		1.8		1.6	36	
			15	15.19	3.0		2.7		2.4		
			20	11.25	4.0		3.6		3.2		
			25	9.00	5.0		4.5		4.0		
			30	7.50	6.0		5.4		4.8		
			35	6.43	7.0		6.3		5.6		
			40	5.63	8.0		7.2		6.4		
			45	5.00	9.0		8.1		7.2		
			50	4.50	10.0	45	9.0	41	8.0		8.0
			55	4.09	11.0		9.9		8.8		
			60	3.75	12.0		10.8		9.6		
			65	3.47	13.0		11.7		10.4		
			70	3.21	14.0		12.6		11.2		
75	3.00	15.0		13.5		12.0					
SB 12x20	12	6	20	14.50	4.0		3.6		3.2	46	
			25	11.60	5.0		4.5		4.0		
			30	9.67	6.0		5.4		4.8		
			35	8.29	7.0		6.3		5.6		
			40	7.25	8.0		7.2		6.4		
			45	6.44	9.0		8.1		7.2		
			50	5.80	10.0		9.0		8.0		
			55	5.27	11.0	58	9.9	52	8.8		8.8
			60	4.83	12.0		10.8		9.6		
			65	4.44	13.0		11.7		10.4		
			70	4.13	14.0		12.6		11.2		
			75	3.85	15.0		13.5		12.0		
			80	3.61	16.0		14.4		12.8		
90	3.22	18.0		16.2		14.4					
SB 14x20	14	7	20	18.89	4.0		3.6		3.2	60	
			25	15.00	5.0		4.5		4.0		
			30	12.50	6.0		5.4		4.8		
			35	10.72	7.0		6.3		5.6		
			40	9.38	8.0		7.2		6.4		
			45	8.34	9.0		8.1		7.2		
			50	7.50	10.0		9.0		8.0		
			55	6.82	11.0	75	9.9	68	8.8		8.8
			60	6.25	12.0		10.8		9.6		
			65	5.77	13.0		11.7		10.4		
			70	5.36	14.0		12.6		11.2		
			75	5.00	15.0		13.5		12.0		
			80	4.69	16.0		14.4		12.8		
90	4.17	18.0		16.2		14.4					
100	3.75	20.0		18.0		16.0					
125	3.00	25.0		22.5		20.0					

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					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
SB 16x20	16	8	20	25.00	4.0	100	3.6	90	3.2	80
25			25	20.00	5.0		4.5		4.0	
30			30	16.67	6.0		5.4		4.8	
35			35	14.29	7.0		6.3		5.6	
40			40	12.50	8.0		7.2		6.4	
45			45	11.11	9.0		8.1		7.2	
50			50	10.00	10.0		9.0		8.0	
55			55	9.09	11.0		9.9		8.8	
60			60	8.34	12.0		10.8		9.6	
65			65	7.69	13.0		11.7		10.4	
70			70	7.14	14.0		12.6		11.2	
75			75	6.67	15.0		13.5		12.0	
80			80	6.25	16.0		14.4		12.8	
90			90	5.56	18.0		16.2		14.4	
100	100	5.00	20.0	18.0	16.0					
125	125	4.00	25.0	22.5	20.0					
SB 18x20	18	9	20	31.39	4.0	125	3.6	113	3.2	100
25			25	25.00	5.0		4.5		4.0	
30			30	20.84	6.0		5.4		4.8	
35			35	17.86	7.0		6.3		5.6	
40			40	15.63	8.0		7.2		6.4	
45			45	13.89	9.0		8.1		7.2	
50			50	12.50	10.0		9.0		8.0	
55			55	11.37	11.0		9.9		8.8	
60			60	10.42	12.0		10.8		9.6	
65			65	9.62	13.0		11.7		10.4	
70			70	8.93	14.0		12.6		11.2	
75			75	8.34	15.0		13.5		12.0	
80			80	7.82	16.0		14.4		12.8	
90			90	6.95	18.0		16.2		14.4	
100	100	6.26	20.0	18.0	16.0					
125	125	5.00	25.0	22.5	20.0					
SB 20x20	20	10	20	40.00	4.0	160	3.6	144	3.2	128
25			25	32.00	5.0		4.5		4.0	
30			30	26.67	6.0		5.4		4.8	
35			35	22.86	7.0		6.3		5.6	
40			40	20.00	8.0		7.2		6.4	
45			45	17.78	9.0		8.1		7.2	
50			50	16.00	10.0		9.0		8.0	
55			55	14.55	11.0		9.9		8.8	
60			60	13.33	12.0		10.8		9.6	
65			65	12.31	13.0		11.7		10.4	
70			70	11.43	14.0		12.6		11.2	
75			75	10.67	15.0		13.5		12.0	
80			80	10.00	16.0		14.4		12.8	
90			90	8.89	18.0		16.2		14.4	
100	100	8.00	20.0	18.0	16.0					
125	125	6.40	25.0	22.5	20.0					
150	150	5.33	30.0	27.0	24.0					
175	175	4.57	35.0	31.5	28.0					
SB 22x25	22	11	25	39.00	5.0	195	4.5	176	4.0	156
30			30	32.50	6.0		5.4		4.8	
35			35	27.86	7.0		6.3		5.6	
40			40	24.38	8.0		7.2		6.4	
45			45	21.67	9.0		8.1		7.2	
50			50	19.50	10.0		9.0		8.0	
55			55	17.73	11.0		9.9		8.8	
60			60	16.25	12.0		10.8		9.6	
65			65	15.00	13.0		11.7		10.4	
70			70	13.93	14.0		12.6		11.2	
75			75	13.00	15.0		13.5		12.0	
80			80	12.19	16.0		14.4		12.8	
90			90	10.83	18.0		16.2		14.4	
100			100	9.75	20.0		18.0		16.0	
125	125	7.80	25.0	22.5	20.0					
150	150	6.50	30.0	27.0	24.0					
175	175	5.57	35.0	31.5	28.0					

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					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
SB 25x25	25	12.5	25	49.00	5.0	245	4.5	221	4.0	196
30			30	40.80	6.0		5.4		4.8	
35			35	35.00	7.0		6.3		5.6	
40			40	30.60	8.0		7.2		6.4	
45			45	27.20	9.0		8.1		7.2	
50			50	24.50	10.0		9.0		8.0	
55			55	22.30	11.0		9.9		8.8	
60			60	20.40	12.0		10.8		9.6	
65			65	18.80	13.0		11.7		10.4	
70			70	17.50	14.0		12.6		11.2	
75			75	16.30	15.0		13.5		12.0	
80			80	15.30	16.0		14.4		12.8	
90			90	13.60	18.0		16.2		14.4	
100			100	12.30	20.0		18.0		16.0	
125			125	9.80	25.0		22.5		20.0	
150			150	8.17	30.0		27.0		24.0	
175			175	7.00	35.0		31.5		28.0	
200	200	6.13	40.0	36.0	32.0					
SB 27x25	27	13.5	25	58.00	5.0	290	4.5	261	4.0	232
30			30	48.33	6.0		5.4		4.8	
35			35	41.43	7.0		6.3		5.6	
40			40	36.25	8.0		7.2		6.4	
45			45	32.22	9.0		8.1		7.2	
50			50	29.00	10.0		9.0		8.0	
55			55	26.36	11.0		9.9		8.8	
60			60	24.17	12.0		10.8		9.6	
65			65	22.31	13.0		11.7		10.4	
70			70	20.71	14.0		12.6		11.2	
75			75	19.33	15.0		13.5		12.0	
80			80	18.13	16.0		14.4		12.8	
90			90	16.11	18.0		16.2		14.4	
100			100	14.50	20.0		18.0		16.0	
125			125	11.60	25.0		22.5		20.0	
150			150	9.67	30.0		27.0		24.0	
175			175	8.28	35.0		31.5		28.0	
200	200	7.25	40.0	36.0	32.0					
SB 30x25	30	15	25	72.00	5.0	360	4.5	324	4.0	288
30			30	60.00	6.0		5.4		4.8	
35			35	51.43	7.0		6.3		5.6	
40			40	45.00	8.0		7.2		6.4	
45			45	40.00	9.0		8.1		7.2	
50			50	36.00	10.0		9.0		8.0	
55			55	32.72	11.0		9.9		8.8	
60			60	30.00	12.0		10.8		9.6	
65			65	27.69	13.0		11.7		10.4	
70			70	25.71	14.0		12.6		11.2	
75			75	24.00	15.0		13.5		12.0	
80			80	22.50	16.0		14.4		12.8	
90			90	20.00	18.0		16.2		14.4	
100			100	18.00	20.0		18.0		16.0	
125			125	14.40	25.0		22.5		20.0	
150			150	12.00	30.0		27.0		24.0	
175			175	10.28	35.0		31.5		28.0	
200	200	9.00	40.0	36.0	32.0					
SB 35x35	35	17.5	35	69.94	7.0	490	6.3	441	5.6	392
40			40	61.25	8.0		7.2		6.4	
45			45	54.44	9.0		8.1		7.2	
50			50	49.00	10.0		9.0		8.0	
55			55	44.54	11.0		9.9		8.8	
60			60	40.83	12.0		10.8		9.6	
65			65	37.69	13.0		11.7		10.4	
70			70	35.00	14.0		12.6		11.2	
75			75	32.67	15.0		13.5		12.0	
80			80	30.62	16.0		14.4		12.8	
90			90	27.22	18.0		16.2		14.4	
100			100	24.50	20.0		18.0		16.0	
125			125	19.60	25.0		22.5		20.0	
150			150	16.33	30.0		27.0		24.0	
175			175	14.00	35.0		31.5		28.0	
200			200	12.25	40.0		36.0		32.0	

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					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
SB 40x40	40	20	40	80.00	8.0	640	7.2	576	6.4	512
45			45	71.11	9.0		8.1		7.2	
50			50	64.00	10.0		9.0		8.0	
55			55	58.18	11.0		9.9		8.8	
60			60	53.33	12.0		10.8		9.6	
65			65	49.23	13.0		11.7		10.4	
70			70	45.71	14.0		12.6		11.2	
75			75	42.67	15.0		13.5		12.0	
80			80	40.00	16.0		14.4		12.8	
90			90	35.55	18.0		16.2		14.4	
100			100	32.00	20.0		18.0		16.0	
125			125	25.60	25.0		22.5		20.0	
150			150	21.33	30.0		27.0		24.0	
175			175	18.28	35.0		31.5		28.0	
200			200	16.00	40.0		36.0		32.0	
225			225	14.22	45.0		40.5		36.0	
250			250	12.80	50.0		45.0		40.0	
275	275	11.64	55.0	49.5	44.0					
300	300	10.67	60.0	54.0	48.0					
SB 50x50	50	25	50	100.00	10.0	1000	9.0	900	8.0	800
55			55	90.91	11.0		9.9		8.8	
60			60	83.33	12.0		10.8		9.6	
65			65	76.92	13.0		11.7		10.4	
70			70	71.42	14.0		12.6		11.2	
75			75	66.67	15.0		13.5		12.0	
80			80	62.50	16.0		14.4		12.8	
90			90	55.55	18.0		16.2		14.4	
100			100	50.00	20.0		18.0		16.0	
125			125	40.00	25.0		22.5		20.0	
150			150	33.33	30.0		27.0		24.0	
175			175	28.57	35.0		31.5		28.0	
200			200	25.00	40.0		36.0		32.0	
225			225	22.22	45.0		40.5		36.0	
250			250	20.00	50.0		45.0		40.0	
275			275	18.18	55.0		49.5		44.0	
300			300	16.66	60.0		54.0		48.0	
350	350	14.29	70.0	63.0	56.0					
SB 60x60	60	30	60	120.00	12.0	1440	10.8	1296	9.6	1152
70			70	102.86	14.0		12.6		11.2	
80			80	90.00	16.0		14.4		12.8	
90			90	80.00	18.0		16.2		14.4	
100			100	72.00	20.0		18.0		16.0	
125			125	57.60	25.0		22.5		20.0	
150			150	48.00	30.0		27.0		24.0	
175			175	41.14	35.0		31.5		28.0	
200			200	36.00	40.0		36.0		32.0	
225			225	32.00	45.0		40.5		36.0	
250			250	28.80	50.0		45.0		40.0	
275			275	26.18	55.0		49.5		44.0	
300			300	24.00	60.0		54.0		48.0	
350			350	20.57	70.0		63.0		56.0	