



SUPER LOAD SPRINGS

JIS B 5012

Outside Dia.	Inside Dia.	Free Length	Spring Code	Spring Constant	0.3 million		0.5 million		1 million	
					Deflection	Load	Deflection	Load	Deflection	Load
mm	mm	mm		Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)
10	5	20	SB 10 - 020	11.25	4.0	45 (441)	3.6	41 (402)	3.2	36 (353)
		25	SB 10 - 025	9.00	5.0		4.5		4.0	
		30	SB 10 - 030	7.50	6.0		5.4		4.8	
		35	SB 10 - 035	6.43	7.0		6.3		5.6	
		40	SB 10 - 040	5.63	8.0		7.2		6.4	
		45	SB 10 - 045	5.00	9.0		8.1		7.2	
		50	SB 10 - 050	4.50	10.0		9.0		8.0	
		55	SB 10 - 055	4.09	11.0		9.9		8.8	
		60	SB 10 - 060	3.75	12.0		10.8		9.6	
		65	SB 10 - 065	3.47	13.0		11.7		10.4	
		70	SB 10 - 070	3.21	14.0		12.6		11.2	
		75	SB 10 - 075	3.00	15.0		13.5		12.0	
80	SB 10 - 080	2.82	16.0	14.4	12.8					
12	6	20	SB 12 - 020	14.50	4.0	58 (569)	3.6	52 (510)	3.2	46 (451)
		25	SB 12 - 025	11.60	5.0		4.5		4.0	
		30	SB 12 - 030	9.67	6.0		5.4		4.8	
		35	SB 12 - 035	8.29	7.0		6.3		5.6	
		40	SB 12 - 040	7.25	8.0		7.2		6.4	
		45	SB 12 - 045	6.44	9.0		8.1		7.2	
		50	SB 12 - 050	5.80	10.0		9.0		8.0	
		55	SB 12 - 055	5.27	11.0		9.9		8.8	
		60	SB 12 - 060	4.83	12.0		10.8		9.6	
		65	SB 12 - 065	4.44	13.0		11.7		10.4	
		70	SB 12 - 070	4.13	14.0		12.6		11.2	
		75	SB 12 - 075	3.85	15.0		13.5		12.0	
80	SB 12 - 080	3.61	16.0	14.4	12.8					
14	7	25	SB 14 - 025	15.00	5.0	75 (736)	4.5	68 (667)	4.0	60 (588)
		30	SB 14 - 030	12.50	6.0		5.4		4.8	
		35	SB 14 - 035	10.72	7.0		6.3		5.6	
		40	SB 14 - 040	9.38	8.0		7.2		6.4	
		45	SB 14 - 045	8.34	9.0		8.1		7.2	
		50	SB 14 - 050	7.50	10.0		9.0		8.0	
		55	SB 14 - 055	6.82	11.0		9.9		8.8	
		60	SB 14 - 060	6.25	12.0		10.8		9.6	
		65	SB 14 - 065	5.77	13.0		11.7		10.4	
		70	SB 14 - 070	5.36	14.0		12.6		11.2	
		75	SB 14 - 075	5.00	15.0		13.5		12.0	
		80	SB 14 - 080	4.69	16.0		14.4		12.8	
90	SB 14 - 090	4.17	18.0	16.2	14.4					
16	8	25	SB 16 - 025	20.00	5.0	100 (981)	4.5	90 (883)	4.0	80 (785)
		30	SB 16 - 030	16.67	6.0		5.4		4.8	
		35	SB 16 - 035	14.29	7.0		6.3		5.6	
		40	SB 16 - 040	12.50	8.0		7.2		6.4	
		45	SB 16 - 045	11.11	9.0		8.1		7.2	
		50	SB 16 - 050	10.00	10.0		9.0		8.0	
		55	SB 16 - 055	9.09	11.0		9.9		8.8	
		60	SB 16 - 060	8.34	12.0		10.8		9.6	
		65	SB 16 - 065	7.69	13.0		11.7		10.4	
		70	SB 16 - 070	7.14	14.0		12.6		11.2	
		75	SB 16 - 075	6.67	15.0		13.5		12.0	
		80	SB 16 - 080	6.25	16.0		14.4		12.8	
90	SB 16 - 090	5.56	18.0	16.2	14.4					
100	SB 16 - 100	5.00	20.0	18.0	16.0					



Outside Dia.	Inside Dia.	Free Length	Spring Code	Spring Constant	0.3 million		0.5 million		1 million	
					Deflection	Load	Deflection	Load	Deflection	Load
mm	mm	mm		Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)
18	9	25	SB 18 - 025	25.00	5.0	125 (1,226)	4.5	113 (1,108)	4.0	100 (981)
		30	SB 18 - 030	20.84	6.0		5.4		4.8	
		35	SB 18 - 035	17.86	7.0		6.3		5.6	
		40	SB 18 - 040	15.63	8.0		7.2		6.4	
		45	SB 18 - 045	13.89	9.0		8.1		7.2	
		50	SB 18 - 050	12.50	10.0		9.0		8.0	
		55	SB 18 - 055	11.37	11.0		9.9		8.8	
		60	SB 18 - 060	10.42	12.0		10.8		9.6	
		65	SB 18 - 065	9.62	13.0		11.7		10.4	
		70	SB 18 - 070	8.93	14.0		12.6		11.2	
		75	SB 18 - 075	8.34	15.0		13.5		12.0	
		80	SB 18 - 080	7.82	16.0		14.4		12.8	
		90	SB 18 - 090	6.95	18.0		16.2		14.4	
100	SB 18 - 100	6.26	20.0	18.0	16.0					
20	10	25	SB 20 - 025	32.00	5.0	160 (1,569)	4.5	144 (1,412)	4.0	128 (1,255)
		30	SB 20 - 030	26.67	6.0		5.4		4.8	
		35	SB 20 - 035	22.86	7.0		6.3		5.6	
		40	SB 20 - 040	20.00	8.0		7.2		6.4	
		45	SB 20 - 045	17.78	9.0		8.1		7.2	
		50	SB 20 - 050	16.00	10.0		9.0		8.0	
		55	SB 20 - 055	14.55	11.0		9.9		8.8	
		60	SB 20 - 060	13.33	12.0		10.8		9.6	
		65	SB 20 - 065	12.31	13.0		11.7		10.4	
		70	SB 20 - 070	11.43	14.0		12.6		11.2	
		75	SB 20 - 075	10.67	15.0		13.5		12.0	
		80	SB 20 - 080	10.00	16.0		14.4		12.8	
		90	SB 20 - 090	8.89	18.0		16.2		14.4	
		100	SB 20 - 100	8.00	20.0		18.0		16.0	
125	SB 20 - 125	6.40	25.0	22.5	20.0					
150	SB 20 - 150	5.33	30.0	27.0	24.0					
22	11	25	SB 22 - 025	39.00	5.0	195 (1,912)	4.5	176 (1,726)	4.0	156 (1,530)
		30	SB 22 - 030	32.50	6.0		5.4		4.8	
		35	SB 22 - 035	27.86	7.0		6.3		5.6	
		40	SB 22 - 040	24.38	8.0		7.2		6.4	
		45	SB 22 - 045	21.67	9.0		8.1		7.2	
		50	SB 22 - 050	19.50	10.0		9.0		8.0	
		55	SB 22 - 055	17.73	11.0		9.9		8.8	
		60	SB 22 - 060	16.25	12.0		10.8		9.6	
		65	SB 22 - 065	15.00	13.0		11.7		10.4	
		70	SB 22 - 070	13.93	14.0		12.6		11.2	
		75	SB 22 - 075	13.00	15.0		13.5		12.0	
		80	SB 22 - 080	12.19	16.0		14.4		12.8	
		90	SB 22 - 090	10.83	18.0		16.2		14.4	
		100	SB 22 - 100	9.75	20.0		18.0		16.0	
125	SB 22 - 125	7.80	25.0	22.5	20.0					
150	SB 22 - 150	6.50	30.0	27.0	24.0					





SUPER LOAD SPRINGS

JIS B 5012

Outside Dia.	Inside Dia.	Free Length	Spring Code	Spring Constant	0.3 million		0.5 million		1 million	
					Deflection	Load	Deflection	Load	Deflection	Load
mm	mm	mm		Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)
25	12.5	25	SB 25 - 025	49.00	5.0	245 (2,400)	4.5	221 (2,170)	4.0	196 (1,922)
		30	SB 25 - 030	40.80	6.0		5.4		4.8	
		35	SB 25 - 035	35.00	7.0		6.3		5.6	
		40	SB 25 - 040	30.60	8.0		7.2		6.4	
		45	SB 25 - 045	27.20	9.0		8.1		7.2	
		50	SB 25 - 050	24.50	10.0		9.0		8.0	
		55	SB 25 - 055	22.30	11.0		9.9		8.8	
		60	SB 25 - 060	20.40	12.0		10.8		9.6	
		65	SB 25 - 065	18.80	13.0		11.7		10.4	
		70	SB 25 - 070	17.50	14.0		12.6		11.2	
		75	SB 25 - 075	16.30	15.0		13.5		12.0	
		80	SB 25 - 080	15.30	16.0		14.4		12.8	
		90	SB 25 - 090	13.60	18.0		16.2		14.4	
		100	SB 25 - 100	12.30	20.0		18.0		16.0	
		125	SB 25 - 125	9.80	25.0		22.5		20.0	
150	SB 25 - 150	8.17	30.0	27.0	24.0					
175	SB 25 - 175	7.00	35.0	31.5	28.0					
27	13.5	25	SB 27 - 025	58.00	5.0	290 (2,840)	4.5	261 (2,560)	4.0	232 (2,280)
		30	SB 27 - 030	48.33	6.0		5.4		4.8	
		35	SB 27 - 035	41.43	7.0		6.3		5.6	
		40	SB 27 - 040	36.25	8.0		7.2		6.4	
		45	SB 27 - 045	32.22	9.0		8.1		7.2	
		50	SB 27 - 050	29.00	10.0		9.0		8.0	
		55	SB 27 - 055	26.36	11.0		9.9		8.8	
		60	SB 27 - 060	24.17	12.0		10.8		9.6	
		65	SB 27 - 065	22.31	13.0		11.7		10.4	
		70	SB 27 - 070	20.71	14.0		12.6		11.2	
		75	SB 27 - 075	19.33	15.0		13.5		12.0	
		80	SB 27 - 080	18.13	16.0		14.4		12.8	
		90	SB 27 - 090	16.11	18.0		16.2		14.4	
		100	SB 27 - 100	14.50	20.0		18.0		16.0	
		125	SB 27 - 125	11.60	25.0		22.5		20.0	
150	SB 27 - 150	9.67	30.0	27.0	24.0					
175	SB 27 - 175	8.28	35.0	31.5	28.0					
30	15	25	SB 30 - 025	72.00	5.0	360 (3,530)	4.5	324 (3,180)	4.0	288 (2,820)
		30	SB 30 - 030	60.00	6.0		5.4		4.8	
		35	SB 30 - 035	51.43	7.0		6.3		5.6	
		40	SB 30 - 040	45.00	8.0		7.2		6.4	
		45	SB 30 - 045	40.00	9.0		8.1		7.2	
		50	SB 30 - 050	36.00	10.0		9.0		8.0	
		55	SB 30 - 055	32.72	11.0		9.9		8.8	
		60	SB 30 - 060	30.00	12.0		10.8		9.6	
		65	SB 30 - 065	27.69	13.0		11.7		10.4	
		70	SB 30 - 070	25.71	14.0		12.6		11.2	
		75	SB 30 - 075	24.00	15.0		13.5		12.0	
		80	SB 30 - 080	22.50	16.0		14.4		12.8	
		90	SB 30 - 090	20.00	18.0		16.2		14.4	
		100	SB 30 - 100	18.00	20.0		18.0		16.0	
		125	SB 30 - 125	14.40	25.0		22.5		20.0	
150	SB 30 - 150	12.00	30.0	27.0	24.0					
175	SB 30 - 175	10.28	35.0	31.5	28.0					
200	SB 30 - 200	9.00	40.0	36.0	32.0					



Outside Dia.	Inside Dia.	Free Length	Spring Code	Spring Constant	0.3 million		0.5 million		1 million	
					Deflection	Load	Deflection	Load	Deflection	Load
mm	mm	mm		Kgf / mm	mm	Kgf (N)	mm	Kgf (N)	mm	Kgf (N)
35	17.5	40	SB 35 - 040	61.25	8.0	490 (4,810)	7.2	441 (4,320)	6.4	392 (3,840)
		45	SB 35 - 045	54.44	9.0		8.1		7.2	
		50	SB 35 - 050	49.00	10.0		9.0		8.0	
		55	SB 35 - 055	44.54	11.0		9.9		8.8	
		60	SB 35 - 060	40.83	12.0		10.8		9.6	
		65	SB 35 - 065	37.69	13.0		11.7		10.4	
		70	SB 35 - 070	35.00	14.0		12.6		11.2	
		75	SB 35 - 075	32.67	15.0		13.5		12.0	
		80	SB 35 - 080	30.62	16.0		14.4		12.8	
		90	SB 35 - 090	27.22	18.0		16.2		14.4	
		100	SB 35 - 100	24.50	20.0		18.0		16.0	
		125	SB 35 - 125	19.60	25.0		22.5		20.0	
		150	SB 35 - 150	16.33	30.0		27.0		24.0	
		175	SB 35 - 175	14.00	35.0		31.5		28.0	
200	SB 35 - 200	12.25	40.0	36.0	32.0					
40	20	40	SB 40 - 040	80.00	8.0	640 (6,280)	7.2	576 (5,650)	6.4	512 (5,020)
		50	SB 40 - 050	64.00	10.0		9.0		8.0	
		60	SB 40 - 060	53.33	12.0		10.8		9.6	
		70	SB 40 - 070	45.71	14.0		12.6		11.2	
		80	SB 40 - 080	40.00	16.0		14.4		12.8	
		90	SB 40 - 090	35.55	18.0		16.2		14.4	
		100	SB 40 - 100	32.00	20.0		18.0		16.0	
		125	SB 40 - 125	25.60	25.0		22.5		20.0	
		150	SB 40 - 150	21.33	30.0		27.0		24.0	
		175	SB 40 - 175	18.28	35.0		31.5		28.0	
		200	SB 40 - 200	16.00	40.0		36.0		32.0	
250	SB 40 - 250	12.80	50.0	45.0	40.0					
50	25	50	SB 50 - 050	100.00	10.0	1,000 (9,810)	9.0	900 (8,830)	8.0	800 (7,850)
		60	SB 50 - 060	83.33	12.0		10.8		9.6	
		70	SB 50 - 070	71.42	14.0		12.6		11.2	
		80	SB 50 - 080	62.50	16.0		14.4		12.8	
		90	SB 50 - 090	55.55	18.0		16.2		14.4	
		100	SB 50 - 100	50.00	20.0		18.0		16.0	
		125	SB 50 - 125	40.00	25.0		22.5		20.0	
		150	SB 50 - 150	33.33	30.0		27.0		24.0	
		175	SB 50 - 175	28.57	35.0		31.5		28.0	
		200	SB 50 - 200	25.00	40.0		36.0		32.0	
		250	SB 50 - 250	20.00	50.0		45.0		40.0	
300	SB 50 - 300	16.66	60.0	54.0	48.0					
60	30	60	SB 60 - 060	120.00	12.0	1,440 (14,120)	10.8	1,296 (12,710)	9.6	1,152 (11,300)
		70	SB 60 - 070	102.86	14.0		12.6		11.2	
		80	SB 60 - 080	90.00	16.0		14.4		12.8	
		90	SB 60 - 090	80.00	18.0		16.2		14.4	
		100	SB 60 - 100	72.00	20.0		18.0		16.0	
		125	SB 60 - 125	57.60	25.0		22.5		20.0	
		150	SB 60 - 150	48.00	30.0		27.0		24.0	
		175	SB 60 - 175	41.14	35.0		31.5		28.0	
		200	SB 60 - 200	36.00	40.0		36.0		32.0	
		250	SB 60 - 250	28.80	50.0		45.0		40.0	
		300	SB 60 - 300	24.00	60.0		54.0		48.0	

