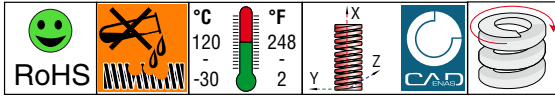
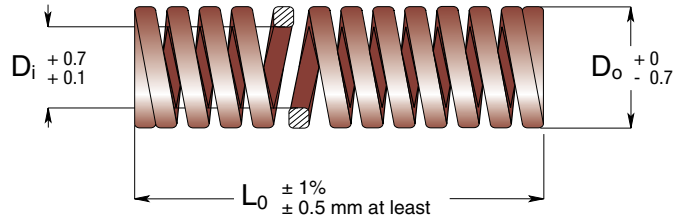


SB SERIES 系列

JIS B 5012 - 1986

EN Super load springs
CN 特重荷载弹簧



Code 型号	D _o Outside Diameter 外径	D _i Inside Diameter 内径	L ₀ Free Length 自由长度	R Spring Constant 弹簧定数 ± 10%	A 16% L ₀ 1,000,000 cycles Kgf (N)	B 18% L ₀ 500,000 cycles Kgf (N)	C 24% L ₀ 300,000 cycles Kgf (N)	E approx. do not use	Pcs
SB 10 - 020	10	5	20	11.25	3.2	3.6	4.0	4.8	50
SB 10 - 025			25	9.00	4.0	4.5	5.0	6.0	50
SB 10 - 030			30	7.50	4.8	5.4	6.0	7.2	50
SB 10 - 035			35	6.43	5.6	6.3	7.0	8.4	50
SB 10 - 040			40	5.63	6.4	7.2	8.0	9.6	50
SB 10 - 045			45	5.00	7.2	8.1	9.0	10.8	50
SB 10 - 050			50	4.50	8.0	9.0	10.0	12.0	25
SB 10 - 055			55	4.09	8.8	9.9	11.0	13.2	25
SB 10 - 060			60	3.75	9.6	10.8	12.0	14.4	25
SB 10 - 065			65	3.47	10.4	11.7	13.0	15.6	25
SB 10 - 070	70	3.21	11.2	12.6	14.0	16.8	25		
SB 10 - 075	75	3.00	12.0	13.5	15.0	18.0	25		
SB 10 - 080	80	2.82	12.8	14.4	16.0	19.2	25		
SB 12 - 020	12	6	20	14.50	3.2	3.6	4.0	4.8	50
SB 12 - 025			25	11.60	4.0	4.5	5.0	6.0	50
SB 12 - 030			30	9.67	4.8	5.4	6.0	7.2	50
SB 12 - 035			35	8.29	5.6	6.3	7.0	8.4	50
SB 12 - 040			40	7.25	6.4	7.2	8.0	9.6	50
SB 12 - 045			45	6.44	7.2	8.1	9.0	10.8	50
SB 12 - 050			50	5.80	8.0	9.0	10.0	12.0	25
SB 12 - 055			55	5.27	8.8	9.9	11.0	13.2	25
SB 12 - 060			60	4.83	9.6	10.8	12.0	14.4	25
SB 12 - 065			65	4.44	10.4	11.7	13.0	15.6	25
SB 12 - 070	70	4.13	11.2	12.6	14.0	16.8	25		
SB 12 - 075	75	3.85	12.0	13.5	15.0	18.0	25		
SB 12 - 080	80	3.61	12.8	14.4	16.0	19.2	25		
SB 14 - 025	14	7	25	15.00	4.0	4.5	5.0	6.0	50
SB 14 - 030			30	12.50	4.8	5.4	6.0	7.2	50
SB 14 - 035			35	10.72	5.6	6.3	7.0	8.4	50
SB 14 - 040			40	9.38	6.4	7.2	8.0	9.6	50
SB 14 - 045			45	8.34	7.2	8.1	9.0	10.8	25
SB 14 - 050			50	7.50	8.0	9.0	10.0	12.0	25
SB 14 - 055			55	6.82	8.8	9.9	11.0	13.2	25
SB 14 - 060			60	6.25	9.6	10.8	12.0	14.4	25
SB 14 - 065			65	5.77	10.4	11.7	13.0	15.6	25
SB 14 - 070			70	5.36	11.2	12.6	14.0	16.8	25
SB 14 - 075	75	5.00	12.0	13.5	15.0	18.0	25		
SB 14 - 080	80	4.69	12.8	14.4	16.0	19.2	20		
SB 14 - 090	90	4.17	14.4	16.2	18.0	21.6	20		
SB 16 - 025	16	8	25	20.00	4.0	4.5	5.0	6.0	50
SB 16 - 030			30	16.67	4.8	5.4	6.0	7.2	50
SB 16 - 035			35	14.29	5.6	6.3	7.0	8.4	50
SB 16 - 040			40	12.50	6.4	7.2	8.0	9.6	25
SB 16 - 045			45	11.11	7.2	8.1	9.0	10.8	25
SB 16 - 050			50	10.00	8.0	9.0	10.0	12.0	25
SB 16 - 055	55	9.09	8.8	9.9	11.0	13.2	25		

Special Springs **42**

1 N = 0.1 daN = 0.102 kgf


Load (N) = R (N/mm) x Deflection (mm)



SB 22 - 40 (Series D₀ - L₀)

JIS B 5012 - 1986

系列 **SERIES SB**

Code 型号	D _o Outside Diameter 外径	D _i Inside Diameter 内径	L ₀ Free Length 自由长度	R Spring Constant 弹簧定数 ± 10%	A 16% L ₀ 1.000.000 cycles	B 18% L ₀ 500.000 cycles	C 24% L ₀ 300.000 cycles	E do not use approx.				
	mm	mm	mm	Kgf/mm	mm Kgf (N)	mm Kgf (N)	mm Kgf (N)	mm	Pcs			
SB 16 - 060	16	8	60	8.34	9.6		10.8		14.4	25		
SB 16 - 065			65	7.69	10.4		11.7		15.6	25		
SB 16 - 070			70	7.14	11.2	80	12.6	90	14.0	100	20	
SB 16 - 075			75	6.67	12.0	(785)	13.5	(883)	15.0	(981)	20	
SB 16 - 080			80	6.25	12.8		14.4		16.0		20	
SB 16 - 090			90	5.56	14.4		16.2		18.0		20	
SB 16 - 100			100	5.00	16.0		20.0		24.0	20		
SB 18 - 025	18	9	25	25.00	4.0		4.5		5.0		6.0	50
SB 18 - 030			30	20.84	4.8		5.4		6.0		7.2	50
SB 18 - 035			35	17.86	5.6		6.3		7.0		8.4	25
SB 18 - 040			40	15.63	6.4		7.2		8.0		9.6	25
SB 18 - 045			45	13.89	7.2		8.1		9.0		10.8	25
SB 18 - 050			50	12.50	8.0		9.0		10.0		12.0	25
SB 18 - 055			55	11.37	8.8	100	9.9	113	11.0	125	13.2	25
SB 18 - 060			60	10.42	9.6	(981)	10.8	(1,108)	12.0	(1,226)	14.4	25
SB 18 - 065			65	9.62	10.4		11.7		13.0		15.6	25
SB 18 - 070			70	8.93	11.2		12.6		14.0		16.8	25
SB 18 - 075			75	8.34	12.0		13.5		15.0		18.0	25
SB 18 - 080			80	7.82	12.8		14.4		16.0		19.2	20
SB 18 - 090			90	6.95	14.4		16.2		18.0		21.6	20
SB 18 - 100			100	6.26	16.0		18.0		20.0		24.0	20
SB 20 - 025	20	10	25	32.00	4.0		4.5		5.0		6.0	50
SB 20 - 030			30	26.67	4.8		5.4		6.0		7.2	50
SB 20 - 035			35	22.86	5.6		6.3		7.0		8.4	25
SB 20 - 040			40	20.00	6.4		7.2		8.0		9.6	25
SB 20 - 045			45	17.78	7.2		8.1		9.0		10.8	25
SB 20 - 050			50	16.00	8.0		9.0		10.0		12.0	25
SB 20 - 055			55	14.55	8.8		9.9		11.0		13.2	25
SB 20 - 060			60	13.33	9.6	128	10.8	144	12.0	160	14.4	25
SB 20 - 065			65	12.31	10.4	(1,255)	11.7	(1,412)	13.0	(1,569)	15.6	25
SB 20 - 070			70	11.43	11.2		12.6		14.0		16.8	25
SB 20 - 075			75	10.67	12.0		13.5		15.0		18.0	25
SB 20 - 080			80	10.00	12.8		14.4		16.0		19.2	20
SB 20 - 090			90	8.89	14.4		16.2		18.0		21.6	20
SB 20 - 100			100	8.00	16.0		18.0		20.0		24.0	20
SB 20 - 125	125	6.40	20.0		22.5		25.0		30.0	10		
SB 20 - 150	150	5.33	24.0		27.0		30.0		36.0	10		
SB 22 - 025	22	11	25	39.00	4.0		4.5		5.0		6.0	50
SB 22 - 030			30	32.50	4.8		5.4		6.0		7.2	25
SB 22 - 035			35	27.86	5.6		6.3		7.0		8.4	25
SB 22 - 040			40	24.38	6.4		7.2		8.0		9.6	25
SB 22 - 045			45	21.67	7.2		8.1		9.0		10.8	25
SB 22 - 050			50	19.50	8.0		9.0		10.0		12.0	25
SB 22 - 055			55	17.73	8.8		9.9		11.0		13.2	25
SB 22 - 060			60	16.25	9.6	156	10.8	176	12.0	195	14.4	25
SB 22 - 065			65	15.00	10.4	(1,530)	11.7	(1,726)	13.0	(1,912)	15.6	25
SB 22 - 070			70	13.93	11.2		12.6		14.0		16.8	20
SB 22 - 075			75	13.00	12.0		13.5		15.0		18.0	20
SB 22 - 080			80	12.19	12.8		14.4		16.0		19.2	20
SB 22 - 090			90	10.83	14.4		16.2		18.0		21.6	20
SB 22 - 100			100	9.75	16.0		18.0		20.0		24.0	20
SB 22 - 125	125	7.80	20.0		22.5		25.0		30.0	10		
SB 22 - 150	150	6.50	24.0		27.0		30.0		36.0	10		

1 N = 0.1 daN = 0.102 kgf

Load (N) = R (N/mm) x Deflection (mm)



SB 22 - 40 (Series D₀ - L₀)

Special Springs **43**

SB
JIS

SB SERIES 系列

JIS B 5012 - 1986

Code 型号	D _o Outside Diameter 外径	D _i Inside Diameter 内径	L ₀ Free Length 自由长度	R Spring Constant 弹簧定数 ± 10%	A 16% L ₀ 1.000.000 cycles	B 18% L ₀ 500.000 cycles	C 24% L ₀ 300.000 cycles	E do not use approx. do not use	Pcs
	mm	mm	mm	Kgf/mm	mm Kgf (N)	mm Kgf (N)	mm Kgf (N)	mm	
SB 25 - 025	25	12.5	25	49.00	4.0	4.5	5.0	6.0	50
SB 25 - 030			30	40.80	4.8	5.4	6.0	7.2	25
SB 25 - 035			35	35.00	5.6	6.3	7.0	8.4	25
SB 25 - 040			40	30.60	6.4	7.2	8.0	9.6	25
SB 25 - 045			45	27.20	7.2	8.1	9.0	10.8	25
SB 25 - 050			50	24.50	8.0	9.0	10.0	12.0	25
SB 25 - 055			55	22.30	8.8	9.9	11.0	13.2	25
SB 25 - 060			60	20.40	9.6	10.8	12.0	14.4	25
SB 25 - 065			65	18.80	10.4	11.7	13.0	15.6	25
SB 25 - 070			70	17.50	11.2	12.6	14.0	16.8	20
SB 25 - 075			75	16.30	12.0	13.5	15.0	18.0	20
SB 25 - 080			80	15.30	12.8	14.4	16.0	19.2	20
SB 25 - 090			90	13.60	14.4	16.2	18.0	21.6	20
SB 25 - 100			100	12.30	16.0	18.0	20.0	24.0	20
SB 25 - 125			125	9.80	20.0	22.5	25.0	30.0	10
SB 25 - 150			150	8.17	24.0	27.0	30.0	36.0	10
SB 25 - 175	175	7.00	28.0	31.5	35.0	42.0	10		
SB 27 - 025	27	13.5	25	58.00	4.0	4.5	5.0	6.0	20
SB 27 - 030			30	48.33	4.8	5.4	6.0	7.2	20
SB 27 - 035			35	41.43	5.6	6.3	7.0	8.4	20
SB 27 - 040			40	36.25	6.4	7.2	8.0	9.6	20
SB 27 - 045			45	32.22	7.2	8.1	9.0	10.8	20
SB 27 - 050			50	29.00	8.0	9.0	10.0	12.0	20
SB 27 - 055			55	26.36	8.8	9.9	11.0	13.2	20
SB 27 - 060			60	24.17	9.6	10.8	12.0	14.4	20
SB 27 - 065			65	22.31	10.4	11.7	13.0	15.6	20
SB 27 - 070			70	20.71	11.2	12.6	14.0	16.8	20
SB 27 - 075			75	19.33	12.0	13.5	15.0	18.0	20
SB 27 - 080			80	18.13	12.8	14.4	16.0	19.2	10
SB 27 - 090			90	16.11	14.4	16.2	18.0	21.6	10
SB 27 - 100			100	14.50	16.0	18.0	20.0	24.0	10
SB 27 - 125			125	11.60	20.0	22.5	25.0	30.0	10
SB 27 - 150			150	9.67	24.0	27.0	30.0	36.0	10
SB 27 - 175	175	8.28	28.0	31.5	35.0	42.0	5		
SB 30 - 025	30	15	25	72.00	4.0	4.5	5.0	6.0	20
SB 30 - 030			30	60.00	4.8	5.4	6.0	7.2	20
SB 30 - 035			35	51.43	5.6	6.3	7.0	8.4	20
SB 30 - 040			40	45.00	6.4	7.2	8.0	9.6	20
SB 30 - 045			45	40.00	7.2	8.1	9.0	10.8	20
SB 30 - 050			50	36.00	8.0	9.0	10.0	12.0	20
SB 30 - 055			55	32.72	8.8	9.9	11.0	13.2	20
SB 30 - 060			60	30.00	9.6	10.8	12.0	14.4	20
SB 30 - 065			65	27.69	10.4	11.7	13.0	15.6	20
SB 30 - 070			70	25.71	11.2	12.6	14.0	16.8	20
SB 30 - 075			75	24.00	12.0	13.5	15.0	18.0	20
SB 30 - 080			80	22.50	12.8	14.4	16.0	19.2	10
SB 30 - 090			90	20.00	14.4	16.2	18.0	21.6	10
SB 30 - 100			100	18.00	16.0	18.0	20.0	24.0	10
SB 30 - 125			125	14.40	20.0	22.5	25.0	30.0	10
SB 30 - 150			150	12.00	24.0	27.0	30.0	36.0	10
SB 30 - 175	175	10.28	28.0	31.5	35.0	42.0	5		
SB 30 - 200	200	9.00	32.0	36.0	40.0	48.0	5		
SB 35 - 040	35	17.5	40	61.25	6.4	7.2	8.0	9.6	20
SB 35 - 045			45	54.44	7.2	8.1	9.0	10.8	20
SB 35 - 050			50	49.00	8.0	9.0	10.0	12.0	20
SB 35 - 055			55	44.54	8.8	9.9	11.0	13.2	10
SB 35 - 060			60	40.83	9.6	10.8	12.0	14.4	10
SB 35 - 065			65	37.69	10.4	11.7	13.0	15.6	10
SB 35 - 070			70	35.00	11.2	12.6	14.0	16.8	10
SB 35 - 075			75	32.67	12.0	13.5	15.0	18.0	10
SB 35 - 080			80	30.62	12.8	14.4	16.0	19.2	10
SB 35 - 090			90	27.22	14.4	16.2	18.0	21.6	10
SB 35 - 100			100	24.50	16.0	18.0	20.0	24.0	10
SB 35 - 125			125	19.60	20.0	22.5	25.0	30.0	5
SB 35 - 150			150	16.33	24.0	27.0	30.0	36.0	5
SB 35 - 175			175	14.00	28.0	31.5	35.0	42.0	5
SB 35 - 200			200	12.25	32.0	36.0	40.0	48.0	5

Special Springs 44

1 N = 0.1 daN = 0.102 kgf

Load (N) = R (N/mm) x Deflection (mm)



SB 40 - 80 (Series) [D₀] - [L₀]

JIS B 5012 - 1986

系列 **SERIES SB**

Code 型号	D _o Outside Diameter 外径	D _i Inside Diameter 内径	L ₀ Free Length 自由长度	R Spring Constant 弹簧定数 ± 10%	A 16% L ₀ 1.000.000 cycles Kgf (N)	B 18% L ₀ 500.000 cycles Kgf (N)	C 24% L ₀ 300.000 cycles Kgf (N)	E do not use approx. Pcs	
	mm	mm	mm	Kgf/mm	mm	mm	mm	mm	
SB 40 - 040	40	20	40	80.00	6.4	7.2	8.0	9.6	20
SB 40 - 050			50	64.00	8.0	9.0	10.0	12.0	20
SB 40 - 060			60	53.33	9.6	10.8	12.0	14.4	10
SB 40 - 070			70	45.71	11.2	12.6	14.0	16.8	10
SB 40 - 080			80	40.00	12.8	14.4	16.0	19.2	10
SB 40 - 090			90	35.55	14.4	16.2	18.0	21.6	10
SB 40 - 100			100	32.00	16.0	18.0	20.0	24.0	10
SB 40 - 125			125	25.60	20.0	22.5	25.0	30.0	5
SB 40 - 150			150	21.33	24.0	27.0	30.0	36.0	5
SB 40 - 175			175	18.28	28.0	31.5	35.0	42.0	5
SB 40 - 200	200	16.00	32.0	36.0	40.0	48.0	5		
SB 40 - 250	250	12.80	40.0	45.0	50.0	60.0	2		
SB 50 - 050	50	25	50	100.00	8.0	9.0	10.0	12.0	5
SB 50 - 060			60	83.33	9.6	10.8	12.0	14.4	5
SB 50 - 070			70	71.42	11.2	12.6	14.0	16.8	5
SB 50 - 080			80	62.50	12.8	14.4	16.0	19.2	5
SB 50 - 090			90	55.55	14.4	16.2	18.0	21.6	5
SB 50 - 100			100	50.00	16.0	18.0	20.0	24.0	5
SB 50 - 125			125	40.00	20.0	22.5	25.0	30.0	5
SB 50 - 150			150	33.33	24.0	27.0	30.0	36.0	2
SB 50 - 175			175	28.57	28.0	31.5	35.0	42.0	2
SB 50 - 200			200	25.00	32.0	36.0	40.0	48.0	2
SB 50 - 250	250	20.00	40.0	45.0	50.0	60.0	2		
SB 50 - 300	300	16.66	48.0	54.0	60.0	72.0	2		
SB 60 - 060	60	30	60	120.00	9.6	10.8	12.0	14.4	5
SB 60 - 070			70	102.86	11.2	12.6	14.0	16.8	5
SB 60 - 080			80	90.00	12.8	14.4	16.0	19.2	5
SB 60 - 090			90	80.00	14.4	16.2	18.0	21.6	5
SB 60 - 100			100	72.00	16.0	18.0	20.0	24.0	5
SB 60 - 125			125	57.60	20.0	22.5	25.0	30.0	2
SB 60 - 150			150	48.00	24.0	27.0	30.0	36.0	2
SB 60 - 175			175	41.14	28.0	31.5	35.0	42.0	2
SB 60 - 200			200	36.00	32.0	36.0	40.0	48.0	2
SB 60 - 250			250	28.80	40.0	45.0	50.0	60.0	2
SB 60 - 300	300	24.00	48.0	54.0	60.0	72.0	2		

1 N = 0.1 daN = 0.102 kgf

Load (N) = R (N/mm) x Deflection (mm)



SB 40 - 80 (Series D_o - L₀)

Special Springs **45**

SB
JIS