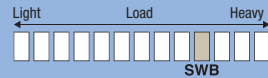
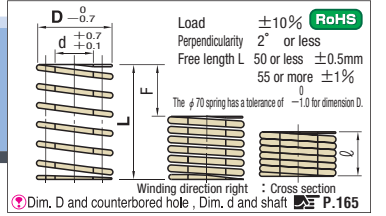


COIL SPRINGS

EXTRA HEAVY LOAD SWB



Printed in Red



The volume discount rate is also applicable to alteration cost.
All price & lead time are to be quoted.

D	d	L	Spring constant N/mm(kg/mm)	Solid height (min)	F=LX16%	F=LX18%	F=LX20%	Catalog No.	U/Price		
TypeD	L	Fmm	Fmm	Fmm	Fmm	Fmm	Fmm	TypeD-L	Qty: 1-19		
6	3	15	59.0 (6.0)	11.6	2.4	2.7	3.0	SWB6-15			
		20	44.3 (4.5)	15.5	3.2	3.6	4.0	20			
		25	35.4 (3.6)	19.4	4.0	4.5	5.0	25			
		30	29.5 (3.0)	23.2	4.8	5.4	6.0	30			
		35	25.3 (2.6)	27.1	5.6	6.3	7.0	35			
		40	22.1 (2.3)	31.0	6.4	7.2	8.0	40			
		45	19.7 (2.0)	34.8	7.2	8.1	9.0	45			
		50	17.7 (1.8)	38.7	8.0	9.0	10.0	50			
		55	16.1 (1.6)	42.6	8.8	9.9	11.0	55			
		60	14.8 (1.5)	46.4	9.6	10.8	12.0	60			
		8	4	10	162 (16.5)	7.7	1.6	1.8	2.0	SWB8-10	
				15	108 (11.0)	11.6	2.4	2.7	3.0	15	
20	80.8 (8.2)			15.9	3.2	3.6	4.0	20			
25	64.6 (6.6)			19.4	4.0	4.5	5.0	25			
30	53.8 (5.5)			23.2	4.8	5.4	6.0	30			
35	46.1 (4.7)			27.1	5.6	6.3	7.0	35			
40	40.4 (4.1)			31.0	6.4	7.2	8.0	40			
45	35.9 (3.7)			34.8	7.2	8.1	9.0	45			
50	32.3 (3.3)			38.7	8.0	9.0	10.0	50			
55	29.4 (3.0)			42.6	8.8	9.9	11.0	55			
60	26.9 (2.7)			46.4	9.6	10.8	12.0	60			
65	24.8 (2.5)			50.3	10.4	11.7	13.0	65			
70	23.1 (2.4)	54.2	11.2	12.6	14.0	70					
75	21.5 (2.2)	58.1	12.0	13.5	15.0	75					
80	20.2 (2.1)	61.9	12.8	14.4	16.0	80					
10	5	10	221 (22.5)	7.7	1.6	1.8	2.0	SWB10-10			
		15	147 (15.0)	11.6	2.4	2.7	3.0	15			
		20	110 (11.2)	15.5	3.2	3.6	4.0	20			
		25	88.2 (9.0)	19.4	4.0	4.5	5.0	25			
		30	73.5 (7.5)	23.2	4.8	5.4	6.0	30			
		35	63.0 (6.4)	27.1	5.6	6.3	7.0	35			
		40	55.1 (5.6)	31.0	6.4	7.2	8.0	40			
		45	49.0 (5.0)	34.8	7.2	8.1	9.0	45			
		50	44.1 (4.5)	38.7	8.0	9.0	10.0	50			
		55	40.1 (4.1)	42.6	8.8	9.9	11.0	55			
		60	36.8 (3.7)	46.4	9.6	10.8	12.0	60			
		65	33.9 (3.5)	50.3	10.4	11.7	13.0	65			
70	31.5 (3.2)	54.2	11.2	12.6	14.0	70					
75	29.4 (3.0)	58.1	12.0	13.5	15.0	75					
80	27.6 (2.8)	61.9	12.8	14.4	16.0	80					
90	24.5 (2.5)	69.7	14.4	16.2	18.0	90					
12	6	15	190 (19.3)	11.6	2.4	2.7	3.0	SWB12-15			
		20	142 (14.5)	15.5	3.2	3.6	4.0	20			
		25	114 (11.6)	19.4	4.0	4.5	5.0	25			
		30	94.8 (9.7)	23.2	4.8	5.4	6.0	30			
		35	81.3 (8.3)	27.1	5.6	6.3	7.0	35			
		40	71.1 (7.3)	31.0	6.4	7.2	8.0	40			
		45	63.2 (6.4)	34.8	7.2	8.1	9.0	45			
		50	56.9 (5.8)	38.7	8.0	9.0	10.0	50			
		55	51.7 (5.3)	42.6	8.8	9.9	11.0	55			
		60	47.4 (4.8)	46.4	9.6	10.8	12.0	60			
		65	43.8 (4.5)	50.3	10.4	11.7	13.0	65			
		70	40.6 (4.1)	54.2	11.2	12.6	14.0	70			
75	37.9 (3.9)	58.1	12.0	13.5	15.0	75					
80	35.6 (3.6)	61.9	12.8	14.4	16.0	80					
90	31.6 (3.2)	69.7	14.4	16.2	18.0	90					
14	7	20	184 (18.8)	15.5	3.2	3.6	4.0	SWB14-20			
		25	147 (15.0)	19.4	4.0	4.5	5.0	25			
		30	123 (12.5)	23.2	4.8	5.4	6.0	30			
		35	105 (10.7)	27.1	5.6	6.3	7.0	35			
		40	92.0 (9.4)	31.0	6.4	7.2	8.0	40			
		45	81.8 (8.3)	34.8	7.2	8.1	9.0	45			
		50	73.6 (7.5)	38.7	8.0	9.0	10.0	50			
		55	66.9 (6.8)	42.6	8.8	9.9	11.0	55			
		60	61.3 (6.3)	46.4	9.6	10.8	12.0	60			
		65	56.6 (5.8)	50.3	10.4	11.7	13.0	65			
		70	52.6 (5.4)	54.2	11.2	12.6	14.0	70			
		75	49.1 (5.0)	58.1	12.0	13.5	15.0	75			
80	46.0 (4.7)	61.9	12.8	14.4	16.0	80					
90	40.9 (4.2)	69.7	14.4	16.2	18.0	90					
100	36.8 (3.8)	77.4	16.0	18.0	20.0	100					

D	d	L	Spring constant N/mm(kg/mm)	Solid height (min)	F=LX16%	F=LX18%	F=LX20%	Catalog No.	U/Price
TypeD	L	Fmm	Fmm	Fmm	Fmm	Fmm	Fmm	TypeD-L	Qty: 1-19
16	8	20	245 (25.0)	15.5	3.2	3.6	4.0	SWB16-20	
		25	196 (20.0)	19.4	4.0	4.5	5.0	25	
		30	163 (16.7)	23.2	4.8	5.4	6.0	30	
		35	140 (14.3)	27.1	5.6	6.3	7.0	35	
		40	123 (12.5)	31.0	6.4	7.2	8.0	40	
		45	109 (11.1)	34.8	7.2	8.1	9.0	45	
		50	98.0 (10.0)	38.7	8.0	9.0	10.0	50	
		55	89.1 (9.1)	42.6	8.8	9.9	11.0	55	
		60	81.7 (8.3)	46.4	9.6	10.8	12.0	60	
		65	75.4 (7.7)	50.3	10.4	11.7	13.0	65	
		70	70.0 (7.1)	54.2	11.2	12.6	14.0	70	
		75	65.3 (6.7)	58.1	12.0	13.5	15.0	75	
80	61.3 (6.3)	61.9	12.8	14.4	16.0	80			
90	54.4 (5.6)	69.7	14.4	16.2	18.0	90			
100	49.0 (5.0)	77.4	16.0	18.0	20.0	100			
18	9	20	306 (31.2)	15.5	3.2	3.6	4.0	SWB18-20	
		25	245 (25.0)	19.4	4.0	4.5	5.0	25	
		30	204 (20.8)	23.2	4.8	5.4	6.0	30	
		35	175 (17.8)	27.1	5.6	6.3	7.0	35	
		40	153 (15.6)	31.0	6.4	7.2	8.0	40	
		45	136 (13.9)	34.8	7.2	8.1	9.0	45	
		50	123 (12.5)	38.7	8.0	9.0	10.0	50	
		55	111 (11.4)	42.6	8.8	9.9	11.0	55	
		60	102 (10.4)	46.4	9.6	10.8	12.0	60	
		65	94.2 (9.6)	50.3	10.4	11.7	13.0	65	
		70	87.5 (8.9)	54.2	11.2	12.6	14.0	70	
		75	81.7 (8.3)	58.1	12.0	13.5	15.0	75	
80	76.6 (7.8)	61.9	12.8	14.4	16.0	80			
90	68.1 (6.9)	69.7	14.4	16.2	18.0	90			
100	61.3 (6.2)	77.4	16.0	18.0	20.0	100			
20	10	20	392 (40.0)	15.5	3.2	3.6	4.0	SWB20-20	
		25	314 (32.0)	19.4	4.0	4.5	5.0	25	
		30	261 (26.6)	23.2	4.8	5.4	6.0	30	
		35	224 (22.8)	27.1	5.6	6.3	7.0	35	
		40	196 (20.0)	31.0	6.4	7.2	8.0	40	
		45	174 (17.8)	34.8	7.2	8.1	9.0	45	
		50	157 (16.0)	38.7	8.0	9.0	10.0	50	
		55	143 (14.5)	42.6	8.8	9.9	11.0	55	
		60	131 (13.3)	46.4	9.6	10.8	12.0	60	
		65	121 (12.3)	50.3	10.4	11.7	13.0	65	
		70	112 (11.4)	54.2	11.2	12.6	14.0	70	
		75	105 (10.7)	58.1	12.0	13.5	15.0	75	
80	98.0 (10.0)	61.9	12.8	14.4	16.0	80			
90	87.1 (8.9)	69.7	14.4	16.2	18.0	90			
100	78.4 (8.0)	77.4	16.0	18.0	20.0	100			
125	62.7 (6.4)	96.8	20.0	22.5	25.0	125			
150	52.3 (5.3)	116.1	24.0	27.0	30.0	150			
22	11	25	382 (38.0)	19.4	4.0	4.5	5.0	SWB22-25	
		30	319 (32.5)	23.2	4.8	5.4	6.0	30	
		35	273 (27.9)	27.1	5.6	6.3	7.0	35	
		40	239 (24.4)	31.0	6.4	7.2	8.0	40	
		45	212 (21.7)	34.8	7.2	8.1	9.0	45	
		50	191 (19.5)	38.7	8.0	9.0	10.0	50	
		55	174 (17.7)	42.6	8.8	9.9	11.0	55	
		60	159 (16.2)	46.4	9.6	10.8	12.0	60	
		65	147 (15.0)	50.3	10.4	11.7	13.0	65	
		70	137 (13.9)	54.2	11.2	12.6	14.0	70	
		75	127 (13.0)	58.1	12.0	13.5	15.0	75	
		80	120 (12.2)	61.9	12.8	14.4	16.0	80	
90	106 (10.8)	69.7	14.4	16.2	18.0	90			
100	95.6 (9.8)	77.4	16.0	18.0	20.0	100			
125	76.5 (7.8)	96.8	20.0	22.5	25.0	125			
150	63.7 (6.5)	116.1	24.0	27.0	30.0	150			

Order **Catalog No.** SWB 20-80

Delivery **Printed in Red** **Printed in Black**
SGP Stock **3** Days

For area out of Singapore please refer to P.1.

Volume discount rate

Quantity	1~19	20~49	50~199	200~500
Rate	-	5%	10%	15%

D	d	L	Spring constant N/mm(kg/mm)	Solid height (min)	F=LX16%	F=LX18%	F=LX20%	Catalog No.	U/Price
TypeD	L	Fmm	Fmm	Fmm	Fmm	Fmm	Fmm	TypeD-L	Qty: 1-19
25	12.5	25	481 (49.0)	19.0	4.0	4.5	5.0	SWB25-25	
		30	400 (40.8)	22.8	4.8	5.4	6.0	30	
		35	343 (35.0)	26.6	5.6	6.3	7.0	35	
		40	300 (30.6)	30.4	6.4	7.2	8.0	40	
		45	267 (27.2)	34.2	7.2	8.1	9.0	45	
		50	240 (24.5)	38.0	8.0	9.0	10.0	50	
		55	218 (22.3)	41.8	8.8	9.9	11.0	55	
		60	200 (20.4)	45.6	9.6	10.8	12.0	60	
		65	185 (18.8)	49.4	10.4	11.7	13.0	65	
		70	172 (17.5)	53.2	11.2	12.6	14.0	70	
		75	160 (16.3)	57.0	12.0	13.5	15.0	75	
		80	150 (15.3)	60.8	12.8	14.4	16.0	80	
90	133 (13.6)	68.4	14.4	16.2	18.0	90			
100	120 (12.2)	76.0	16.0	18.0	20.0	100			
125	96.1 (9.8)	95.0	20.0	22.5	25.0	125			
150	80.1 (8.2)	114.0	24.0	27.0	30.0	150			
175	68.6 (7.0)	133.0	28.0	31.5	35.0	175			
27	13.5	25	569 (58.0)	19.0	4.0	4.5	5.0	SWB27-25	
		30	474 (48.3)	22.8	4.8	5.4	6.0	30	
		35	406 (41.4)	26.6	5.6	6.3	7.0	35	
		40	355 (36.2)	30.4	6.4	7.2	8.0	40	
		45	316 (32.2)	34.2	7.2	8.1	9.0	45	
		50	284 (29.0)	38.0	8.0	9.0	10.0	50	
		55	259 (26.4)	41.8	8.8	9.9	11.0	55	
		60	237 (24.2)	45.6	9.6	10.8	12.0	60	
		65	219 (22.3)	49.4	10.4	11.7	13.0	65	
		70	203 (20.						