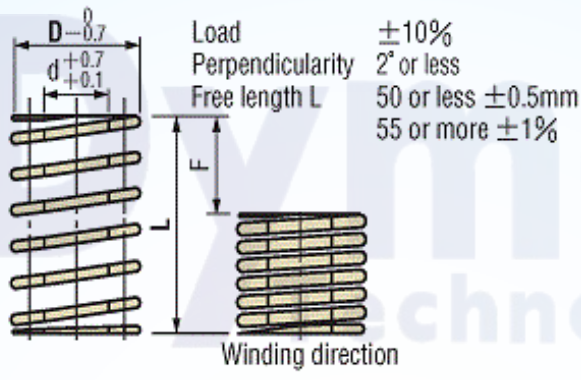


# Economy Coil Spring - DE-SWB



Part Number	D	d	L	Spring Constant		F = L x 16%		F = L x 18%	
				N/mm (kgf/mm)	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			1000000		500000			
<b>DE-SWB6 - 15</b>	6	3	15	59.0 (6.0)	2.4	142	2.7	159	
20			44.3 (4.5)	3.2	{12}	3.6	{16}		
25			35.4 (3.6)	4		4.5			
30			29.5 (3.0)	4.8		5.4			
35			25.3 (2.6)	5.6		6.3			
40			22.1 (2.3)	6.4		7.2			
45			19.7 (2.0)	7.2		8.1			
50			17.7 (1.8)	8		9			
55			16.1 (1.6)	8.8		9.9			
60			14.8 (1.5)	9.6		10.8			
<b>DE-SWB8 - 10</b>	6	3	10	162.0 (16.5)	1.6	258	1.8	291	
15			108.0 (11.0)	2.4	{26}	2.7	{30}		
20			80.8 (8.2)	3.2		3.6			
25			64.6 (6.6)	4		4.5			
30			53.8 (5.5)	4.8		5.4			
35			46.1 (4.7)	5.6		6.3			
40			40.4 (4.1)	6.4		7.2			
45			35.9 (3.7)	7.2		8.1			
50			32.3 (3.3)	8		9			
55			29.4 (3.0)	8.8		9.9			
60			26.9 (2.7)	9.6		10.8			
65			24.8 (2.5)	10.4		11.7			
70	23.1 (2.4)	11.2		12.6					
75	21.5 (2.2)	12		13.5					
80	20.2 (2.1)	12.8		14.4					
<b>DE-SWB10 - 10</b>	10	5	10	221.0 (22.5)	1.6	353	1.8	397	
15			147.0 (15.0)	2.4	{36}	2.7	{41}		
20			110.0 (11.2)	3.2		3.6			
25			88.2 (9.0)	4		4.5			
30			73.5 (7.5)	4.8		5.4			
35			63.0 (6.4)	5.6		6.3			
40			55.1 (5.6)	6.4		7.2			
45			49.0 (5.0)	7.2		8.1			
50			44.1 (4.5)	8		9			
55			40.1 (4.1)	8.8		9.9			
60			36.8 (3.7)	9.6		10.8			
65			33.9 (3.5)	10.4		11.7			
70			31.5 (3.2)	11.2		12.6			
75			29.4 (3.0)	12		13.5			
80	27.6 (2.8)	12.8		14.4					
90	24.5 (2.5)	14.4		16.2					
<b>DE-SWB12 - 15</b>	12	6	15	2190 (19.3)	2.4	455	2.7	512	
20			142.0 (14.5)	3.2	{46}	3.6	{52}		
25			114.0 (11.6)	4		4.5			
30			94.8 (9.7)	4.8		5.4			
35			81.3 (8.3)	5.6		6.3			
40			71.1 (7.3)	6.4		7.2			
45			63.2 (6.4)	7.2		8.1			
50			56.9 (5.8)	8		9			
55			51.7 (5.3)	8.8		9.9			
60			47.4 (4.8)	9.6		10.8			
65			43.8 (4.5)	10.4		11.7			
70			40.6 (4.1)	11.2		12.6			
75			37.9 (3.9)	12		13.5			
80			35.6 (3.6)	12.8		14.4			
90	31.6 (3.2)	14.4		16.2					
<b>DE-SWB14 - 20</b>	14	7	20	184.0 (18.8)	3.2	589	3.6	662	
25			147.0 (15.0)	4	{60}	4.5	{68}		
30			123.0 (12.5)	4.8		5.4			
35			105.0 (10.7)	5.6		6.3			
40			92.0 (9.4)	6.4		7.2			
45			81.8 (8.3)	7.2		8.1			
50			73.6 (7.5)	8		9			
55			66.9 (6.8)	8.8		9.9			
60			61.3 (6.3)	9.6		10.8			
65			56.6 (5.8)	10.4		11.7			
70			52.6 (5.4)	11.2		12.6			
75			49.1 (5.0)	12		13.5			
80			46.0 (4.7)	12.8		14.4			
90			40.9 (4.2)	14.4		16.2			
100	36.8 (3.8)	16		18					
<b>DE-SWB16 - 20</b>	16	8	20	245.0 (25.0)	3.2	784	3.6	882	
25			196.0 (20.0)	4	{80}	4.5	{90}		
30			163.0 (16.7)	4.8		5.4			
35			140.0 (14.3)	5.6		6.3			
40			123.0 (12.5)	6.4		7.2			
45			109.0 (11.1)	7.2		8.1			
50			98.0 (10.0)	8		9			
55			89.1 (9.1)	8.8		9.9			
60			81.7 (8.3)	9.6		10.8			
65			75.4 (7.7)	10.4		11.7			
70			70.0 (7.1)	11.2		12.6			
75			65.3 (6.7)	12		13.5			
80			61.3 (6.3)	12.8		14.4			
90			54.4 (5.6)	14.4		16.2			
100	49.0 (5.0)	16		18					

Part Number	D	d	L	Spring Constant		F = L x 16%		F = L x 18%	
				N/mm (kgf/mm)	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			1000000		500000			
<b>DE-SWB18 - 20</b>	18	9	20	306.0 (311.2)	3.2	980	3.6	1103	
25			245.0 (25.0)	4	{100}	4.5	{113}		
30			204.0 (20.8)	4.8		5.4			
35			175.0 (17.8)	5.6		6.3			
40			153.0 (15.6)	6.4		7.2			
45			136.0 (13.9)	7.2		8.1			
50			123.0 (12.5)	8		9			
55			111.0 (11.4)	8.8		9.9			
60			102.0 (10.4)	9.6		10.8			
65			94.2 (9.6)	10.4		11.7			
70			87.5 (8.9)	11.2		12.6			
75			81.7 (8.3)	12		13.5			
80			76.6 (7.8)	12.8		14.4			
90			68.1 (6.9)	14.4		16.2			
100	61.3 (6.2)	16		18					
<b>E-SWB20 - 20</b>	20	10	20	392.0 (40.0)	4.8	1254	5.4	1411	
25			314.0 (32.0)	4	{128}	4.5	{144}		
30			261.0 (26.6)	4.8		5.4			
35			224.0 (22.8)	5.6		6.3			
40			196.0 (20.0)	6.4		7.2			
45			174.0 (17.8)	7.2		8.1			
50			157.0 (16.0)	8		9			
55			143.0 (14.5)	8.8		9.9			
60			131.0 (13.3)	9.6		10.8			
65			121.0 (12.3)	10.4		11.7			
70			112.0 (11.4)	11.2		12.6			
75			105.0 (10.7)	12		13.5			
80			98.0 (10.0)	12.8		14.4			
90			87.1 (8.9)	14.4		16.2			
100	78.4 (8.0)	16		18					
125	62.7 (6.4)	20		22.5					
150	52.3 (5.3)	24		27					
<b>E-SWB22 - 25</b>	22	11	25	382.0 (39.0)	4	1530	4.5	1721	
30			319.0 (32.5)	4.8	{156}	5.4	{175}		
35			273.0 (27.9)	5.6		6.3			
40			239.0 (24.4)	6.4		7.2			
45			212.0 (21.7)	7.2		8.1			
50			191.0 (19.5)	8		9			
55			174.0 (17.7)	8.8		9.9			
60			159.0 (16.2)	9.6		10.8			
65			147.0 (15.0)	10.4		11.7			
70			137.0 (13.9)	11.2		12.6			
75			127.0 (13.0)	12		13.5			
80			120.0 (12.2)	12.8		14.4			
90			106.0 (10.8)	14.4		16.2			
100			95.6 (9.8)	16		18			
125	76.5 (7.8)	20		22.5					
150	63.7 (6.5)	24		27					
<b>DE-SWB25 - 25</b>	25	12.5	25	481.0 (49.0)	4	1922	4.5	2162	
30			400.0 (40.8)	4.8	{196}	5.4	{220}		
35			343.0 (35.0)	5.6		6.3			
40			300.0 (30.6)	6.4		7.2			
45			267.0 (27.2)	7.2		8.1			
50			240.0 (24.5)	8		9			
55			218.0 (22.3)	8.8		9.9			
60			200.0 (20.4)	9.6		10.8			
65			185.0 (18.8)	10.4		11.7			
70			172.0 (17.5)	11.2		12.6			
75			160.0 (16.3)	12		13.5			
80			150.0 (15.3)	12.8		14.4			
90			133.0 (13.6)	14.4		16.2			
100			120.0 (12.2)	16		18			
125	96.1 (9.8)	20		22.5					
150	80.1 (8.2)	24		27					
175	68.6 (7.0)	28		31.5					
<b>E-SWB27 - 25</b>	27	13.5	25	569.0 (36.2)	4	2275	4.5	2560	
30			474.0 (48.3)	4.8	{232}	5.4	{261}		
35			406.0 (41.4)	5.6		6.3			
40			355.0 (36.2)	6.4		7.2			
45			316.0 (32.2)	7.2		8.1			
50			284.0 (29.0)	8		9			
55			259.0 (26.4)	8.8		9.9			
60			237.0 (24.2)	9.6		10.8			
65			219.0 (22.3)	10.4		11.7			
70			203.0 (20.7)	11.2		12.6			
75			190.0 (19.3)	12		13.5			
80			178.0 (18.1)	12.8		14.4			
90			158.0 (16.1)	14.4		16.2			
100			142.0 (14.5)	16		18			
125	114.0 (11.6)	20		22.5					
150	94.8 (9.7)	24		27					
175	81.3 (8.3)	28		31.5					

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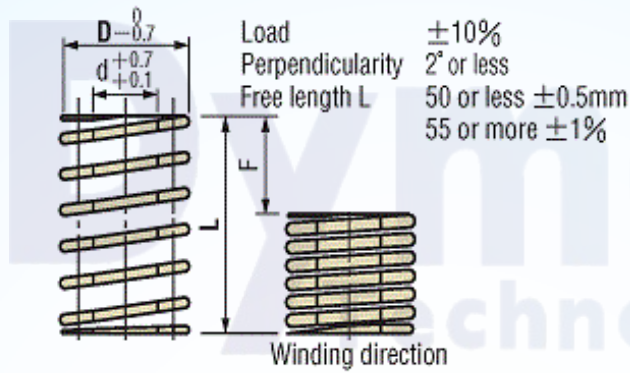


DE-SWB 20 - 80

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# Economy Coil Spring - DE-SWB



Part Number	D	d	L	Spring Constant		F = L x 16%		F = L x 18%	
				N/mm {kgf/mm}	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			1000000	500000				
<b>DE-SWB30 - 25</b>	30	15	25	706.0 (72.0)	4	2824 (288)	4.5	3177 (324)	
30			588.0 (60.0)	4.8	5.4				
35			504.0 (51.4)	5.6	6.3				
40			441.0 (45.0)	6.4	7.2				
45			392.0 (40.0)	7.2	8.1				
50			353.0 (36.0)	8	9				
55			321.0 (32.7)	8.8	9.9				
60			294.0 (30.0)	9.6	10.8				
65			272.0 (27.7)	10.4	11.7				
70			252.0 (25.7)	11.2	12.6				
75			235.0 (24.0)	12	13.5				
80			221.0 (22.5)	12.8	14.4				
90			196.0 (20.0)	14.4	16.2				
100			177.0 (18.0)	16	18				
125			141.0 (14.4)	20	22.5				
150	118.0 (12.0)	24	27						
175	101.0 (10.3)	28	31.5						
200	88.3 (9.0)	32	36						
<b>DE-SWB35 - 40</b>	30	17.5	40	600.0 (61.2)	6.4	3842 (392)	7.2	4322 (441)	
45			534.0 (54.4)	7.2	8.1				
50			480.0 (49.0)	8	9				
55			437.0 (44.5)	8.8	9.9				
60			400.0 (40.8)	9.6	10.8				
65			369.0 (37.7)	10.4	11.7				
70			343.0 (35.0)	11.2	12.6				
75			320.0 (32.6)	12	13.5				
80			300.0 (30.6)	12.8	14.4				
90			267.0 (27.2)	14.4	16.2				
100			240.0 (24.5)	16	18				
125			192.0 (19.6)	20	22.5				
150			160.0 (16.3)	24	27				
175			137.0 (14.0)	28	31.5				
200			120.0 (12.2)	32	36				
<b>DE-SWB40 - 40</b>	40	20	40	784.0 (79.9)	6.4	5018 (512)	7.2	5645 (576)	
45			697.0 (71.1)	7.2	8.1				
50			627.0 (64.0)	8	9				
55			570.0 (58.1)	8.8	9.9				
60			523.0 (53.3)	9.6	10.8				
65			482.0 (49.2)	10.4	11.7				
70			448.0 (45.7)	11.2	12.6				
75			418.0 (42.6)	12	13.5				
80			392.0 (40.0)	12.8	14.4				
90			348.0 (35.5)	14.4	16.2				
100			314.0 (32.0)	16	18				
125			251.0 (25.6)	20	22.5				
150			209.0 (21.3)	24	27				
175			179.0 (18.3)	28	31.5				
200			157.0 (16.0)	32	36				
225	139.0 (14.2)	36	40.5						
250	125.0 (12.8)	40	45						
275	114.0 (11.6)	44	49.5						
300	105.0 (10.7)	48	54						

Part Number	D	d	L	Spring Constant		F = L x 16%		F = L x 18%	
				N/mm {kgf/mm}	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			1000000	500000				
<b>DE-SWB50 - 50</b>	50	25	50	980.0 (100.0)	8	7840 (800)	8.8	8820 (900)	
55			891.0 (90.9)	8.8	9.9				
60			817.0 (83.3)	9.6	10.8				
65			754.0 (76.9)	10.4	11.7				
70			700.0 (71.4)	11.2	12.6				
75			653.0 (66.7)	12	13.5				
80			613.0 (62.5)	12.8	14.4				
90			544.0 (55.6)	14.4	16.2				
100			490.0 (50.0)	16	18				
125			392.0 (40.0)	20	22.5				
150			327.0 (33.3)	24	27				
175			280.0 (28.6)	28	31.5				
200			245.0 (25.0)	32	36				
225			218.0 (22.2)	36	40.5				
250			196.0 (20.0)	40	45				
275	178.0 (18.2)	44	49.5						
300	163.0 (16.7)	48	54						
350	140.0 (14.3)	56	63						
<b>DE-SWB60 - 60</b>	60	30	60	1176.0 (120.0)	9.6	11290 (1152)	10.8	12701 (1296)	
70			1008.0 (102.9)	12.6	14.4				
80			882.0 (90.0)	12.8	14.4				
90			784.0 (80.0)	14.4	16.2				
100			706.0 (72.0)	16	18				
125			564.0 (57.6)	20	22.5				
150			470.0 (48.0)	24	27				
175			403.0 (41.1)	28	31.5				
200			353.0 (36.0)	32	36				
225			314.0 (32.0)	36	40.5				
250			282.0 (28.8)	40	45				
275			257.0 (26.2)	44	49.5				
300			235.0 (24.0)	48	54				
350			202.0 (20.6)	56	63				
<b>DE-SWB70 - 70</b>			70	38.5	70	1219 (124.3)	11.2	13655 (1392)	12.6
80	1067 (108.8)	12.8			14.4				
90	948 (96.7)	14.4			16.2				
100	853 (87.0)	16			18				
125	683 (69.6)	20			22.5				
150	569 (58.0)	24			27				
175	488 (49.7)	28			31.5				
200	427 (43.5)	32			36				
250	341 (34.8)	40			45				
300	284 (29.0)	48			54				
350	244 (24.9)	56	63						

● Load calculation method: Load = Spring constant x Deflection

(SI units)  $N = N/mm \times Fmm$   
 $kgf = kgf/mm \times Fmm$   
 $(kgf = N \times 0.101972)$

