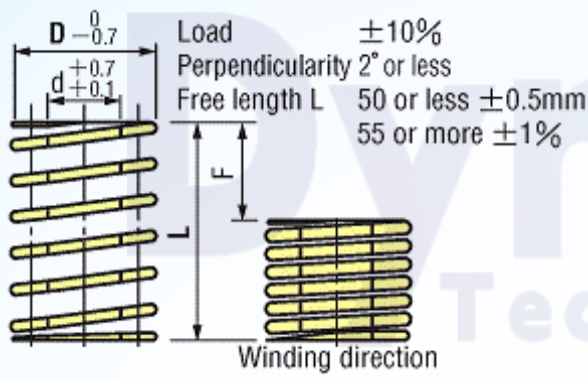


Economy Coil Spring - DE-SWF



Part Number	D	d	L	Spring Constant		F = L x 40%		F = L x 45%	
				N/mm (kgf/mm)	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			100000		50000			
DE-SWF6-15	6	3	15	7.8(0.80)	6	47	6.8	53	
20			5.9(0.60)	8	{4.8}	9	{5.4}		
25			4.7(0.48)	10		11.3			
30			3.9(0.40)	12		13.5			
35			3.4(0.34)	14		15.8			
40			2.9(0.30)	16		18			
DE-SWF6-10	8	4	10	15.7(1.60)	4	63	4.5	71	
15			10.5(1.07)	6	{6.4}	6.8	{7.2}		
20			7.8(0.80)	8		9			
25			6.3(0.64)	10		11.2			
30			5.2(0.53)	12		13.5			
35			4.5(0.46)	14		15.7			
40			3.9(0.40)	16		18			
45			3.5(0.36)	18		20.2			
50			3.1(0.32)	20		22.5			
55			2.9(0.29)	22		24.7			
60			2.6(0.27)	24		27			
65			2.4(0.25)	26		29.3			
70	2.2(0.23)	28		31.5					
75	2.1(0.21)	30		33.8					
80	2.0(0.20)	32		36					
DE-SWF10-10	10	5	10	19.6(2.00)	4	78	4.5	88	
15			13.1(1.33)	6	{8.0}	6.8	{9.0}		
20			9.8(1.00)	8		9			
25			7.8(0.80)	10		11.2			
30			6.5(0.67)	12		13.5			
35			5.9(0.57)	14		15.7			
40			4.9(0.50)	16		18			
45			4.4(0.44)	18		20.2			
50			3.9(0.40)	20		22.5			
55			3.6(0.36)	22		24.7			
60			3.3(0.33)	24		27			
65			3.0(0.31)	26		29.2			
70			2.8(0.29)	28		31.5			
75			2.6(0.27)	30		33.7			
80	2.5(0.25)	32		36					
90	2.2(0.22)	36		40.5					
DE-SWF12-15	12	6	15	18.3(1.87)	6	110	6.8	124	
20			13.7(1.40)	8	{11}	9	{13}		
25			11.0(1.12)	10		11.2			
30			9.2(0.93)	12		13.5			
35			7.8(0.80)	14		15.7			
40			6.9(0.70)	16		18			
45			6.1(0.62)	18		20.2			
50			5.5(0.56)	20		22.5			
55			5.0(0.51)	22		24.7			
60			4.6(0.47)	24		27			
65			4.2(0.43)	26		29.2			
70			3.9(0.40)	28		31.5			
75			3.7(0.37)	30		33.7			
80			3.4(0.35)	32		36			
90	3.1(0.31)	36		40.5					
DE-SWF14-20	14	7	25	17.7(1.80)	8	141	9	159	
25			14.1(1.44)	10	{14}	11.2	{16}		
30			11.8(1.20)	12		13.5			
35			10.1(1.03)	14		15.7			
40			8.8(0.90)	16		18			
45			7.8(0.80)	18		20.2			
50			7.1(0.72)	20		22.5			
55			6.4(0.65)	22		24.7			
60			5.9(0.60)	24		27			
65			5.4(0.55)	26		29.2			
70			5.0(0.51)	28		31.5			
75			4.7(0.48)	30		33.7			
80			4.4(0.45)	32		36			
90			3.9(0.40)	36		40.5			
100	3.5(0.36)	40		45					
DE-SWF16-20	16	8	20	20.6(2.10)	8	165	9	185	
25			16.5(1.68)	10	{17}	11.2	{91}		
30			13.7(1.40)	12		13.5			
35			11.8(1.20)	14		15.7			
40			10.3(1.05)	16		18			
45			9.2(0.93)	18		20.2			
50			8.2(0.84)	20		22.5			
55			7.5(0.76)	22		24.7			
60			6.9(0.70)	24		27			
65			6.3(0.65)	26		29.2			
70			5.9(0.60)	28		31.5			
75			5.5(0.56)	30		33.7			
80			5.1(0.53)	32		36			
90			4.6(0.47)	36		40.5			
100	4.1(0.42)	40		45					
125	3.3(0.34)	50		56.3					

Part Number	D	d	L	Spring Constant		F = L x 40%		F = L x 45%	
				N/mm (kgf/mm)	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			100000		50000			
DE-SWF18-20	18	9	20	25.5(0.64)	8	204	9	229	
25			20.4(2.08)	10	{21}	11.2	{23}		
30			17.0(1.73)	12		13.5			
35			14.6(1.49)	14		15.7			
40			12.7(1.30)	16		18			
45			11.3(1.16)	18		20.2			
50			10.2(1.04)	20		22.5			
55			9.3(0.957)	22		24.7			
60			8.5(0.87)	24		27			
65			7.8(0.80)	26		29.2			
70			7.3(0.74)	28		31.5			
75			6.8(0.69)	30		33.7			
80			6.4(0.65)	32		36			
90			5.7(0.58)	36		40.5			
100	5.1(0.52)	40		45					
125	4.1(0.42)	50		56.3					
DE-SWF20-20	20	11	20	31.4(3.20)	8	251	9	282	
25			25.1(2.56)	10	{26}	11.2	{29}		
30			20.9(2.13)	12		13.5			
35			17.9(1.83)	14		15.7			
40			15.7(1.60)	16		18			
45			13.9(1.42)	18		20.2			
50			12.6(1.28)	20		22.5			
55			11.4(1.16)	22		24.7			
60			10.5(1.07)	24		27			
65			9.7(0.98)	26		29.2			
70			9.0(0.91)	28		31.5			
75			8.4(0.85)	30		33.7			
80			7.8(0.80)	32		36			
90			7.0(0.71)	36		40.5			
100	6.3(0.64)	40		45					
125	5.0(0.51)	50		56.2					
150	4.2(0.43)	60		67.5	353				
DE-SWF22-25	22	11	25	31.4(3.20)	10	314	11.2	353	
30			26.2(2.67)	12	{32}	13.5	{36}		
35			22.4(2.29)	14		15.7			
40			19.6(2.00)	16		18			
45			17.4(1.78)	18		20.2			
50			15.7(1.60)	20		22.5			
55			14.3(1.45)	22		24.7			
60			13.1(1.33)	24		27			
65			12.1(1.23)	26		29.2			
70			11.2(1.14)	28		31.5			
75			10.5(1.07)	30		33.7			
80			9.8(1.00)	32		36			
90			8.7(0.89)	36		40.5			
100			7.8(0.80)	40		45			
125	6.3(0.64)	50		56.2					
150	5.2(0.53)	60		67.5	441				
DE-SWF25-25	25	13.5	25	39.2(4.00)	10	392	11.2	441	
30			32.7(3.33)	12	{40}	13.5	{45}		
35			28.0(2.86)	14		15.7			
40			24.5(2.50)	16		18			
45			21.8(2.22)	18		20.2			
50			19.6(2.00)	20		22.5			
55			17.8(1.82)	22		24.7			
60			16.3(1.67)	24		27			
65			15.1(1.54)	26		29.2			
70			14.0(1.43)	28		31.5			
75			13.1(1.33)	30		33.7			
80			12.3(1.25)	32		36			
90			10.9(1.11)	36		40.5			
100			9.8(1.00)	40		45			
125	7.8(0.80)	50		56.2					
150	6.5(0.67)	60		67.5					
175	5.6(0.57)	70		78.7					
200	4.9(0.50)	80		90					
DE-SWF27-25	27	13.5	25	47.1(4.80)	10	471	11.2	530	
30			39.2(4.00)	12	{48}	13.5	{54}		
35			33.6(3.43)	14		15.8			
40			29.4(3.00)	16		18			
45			26.2(2.67)	18		20.3			
50			23.5(2.40)	20		22.5			
55			21.4(2.18)	22		24.8			
60			19.6(2.00)	24		27			
65			18.1(1.85)	26		29.3			
70			16.8(1.71)	28		31.5			
75			15.7(1.60)	30		33.8			
80			14.7(1.50)	32		36			
90			13.1(1.33)	36		40.5			
100			11.8(1.20)	40		45			
125	9.4(0.96)	50		56.3					
150	7.8(0.80)	60		67.5					
175	6.7(0.69)	70		78.8					
200	5.9(0.60)	80		90					

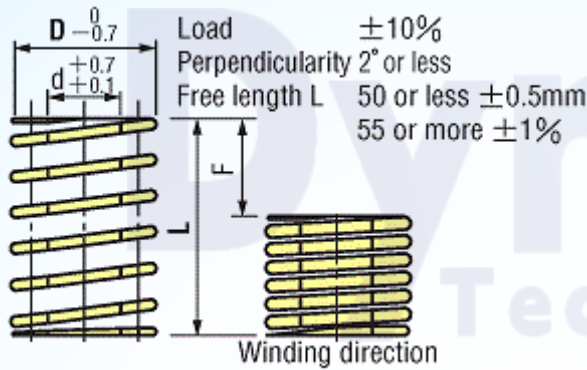
ORDERING GUIDE



DE-SWF10 - 30

www.dymextech.com
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Economy Coil Spring - DE-SWF



Part Number	D	d	L	Spring Constant		F = L x 40%		F = L x 45%	
				N/mm {kgf/mm}	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			100000	500000				
DE-SWF 30 - 25	30	16	25	56.5(5.76)	10	565	11.2	635	
30			30	47.1(4.80)	12	{58}	13.5	{65}	
35			35	40.3(4.11)	14		15.7		
40			40	35.3(3.60)	16		18		
45			45	31.4(3.20)	18		20.2		
50			50	28.2(2.88)	20		22.5		
55			55	25.7(2.62)	22		24.7		
60			60	23.5(2.40)	24		27		
65			65	21.7(2.22)	26		29.2		
70			70	20.2(2.06)	28		31.5		
75			75	18.8(1.92)	30		33.7		
80			80	17.7(1.80)	32		36		
90			90	15.7(1.60)	36		40.5		
100			100	14.1(1.44)	40		45		
DE-SWF35 - 40	35	19	40	48.0(4.89)	16	768	18	88	
45			45	42.7(4.35)	18	{78}	20.2	{9.0}	
50			50	38.4(3.92)	20		22.5		
55			55	34.9(3.56)	22		24.7		
60			60	32.0(3.26)	24		27		
65			65	29.5(3.01)	26		29.2		
70			70	27.4(2.80)	28		31.5		
75			75	25.6(2.61)	30		33.7		
80			80	24.0(2.45)	32		36		
90			90	21.3(2.18)	36		40.5		
100			100	19.2(1.96)	40		45		
125			125	15.4(1.57)	50		56.2		
150			150	12.8(1.31)	60		67.5		
175			175	11.0(1.12)	70		78.7		
200	200	9.6(0.98)	80		90				
DE-SWF40 - 40	40	22	40	62.7(6.39)	16	1003	18	1129	
45			45	55.7(5.68)	18	{102}	20.3	{115}	
50			50	50.2(5.11)	20		22.5		
55			55	45.6(4.65)	22		24.8		
60			60	41.8(4.26)	24		27		
65			65	38.6(3.93)	26		29.3		
70			70	35.8(3.65)	28		31.5		
75			75	33.4(3.41)	30		33.8		
80			80	31.4(3.20)	32		36		
90			90	27.9(2.84)	36		40.5		
100			100	25.1(2.56)	40		45		
125			125	20.1(2.05)	50		56.2		
150			150	16.7(1.70)	60		67.5		
175			175	14.3(1.46)	70		78.7		
200			200	12.5(1.28)	80		90		
225			225	11.1(1.14)	90		101.3		
250			250	10(1.02)	100		112.5		
275			275	9.1(0.93)	110		123.8		
300	300	8.4(0.85)	120		135				

Part Number	D	d	L	Spring Constant		F = L x 40%		F = L x 45%	
				N/mm {kgf/mm}	Fmm	Load N(Kgf)	Fmm	Load N(Kgf)	
Type D - L	Operation Count			100000	500000				
DE-SWF 50 - 50	50	27.5	50	78.4(7.99)	20	1568	22.5	1764	
55			55	71.3(7.27)	22	{160}	24.8	{180}	
60			60	65.3(6.66)	24		27		
65			65	60.3(6.15)	26		29.3		
70			70	56.0(5.71)	28		31.5		
75			75	52.3(5.33)	30		33.8		
80			80	49.0(5.00)	32		36		
90			90	43.6(4.44)	36		40.5		
100			100	39.2(4.00)	40		45		
125			125	31.4(3.20)	50		56.3		
150			150	26.1(2.66)	60		67.5		
175			175	22.4(2.28)	70		78.8		
200			200	19.6(2.00)	80		90		
225			225	17.4(1.78)	90		101.3		
250			250	15.7(1.60)	100		112.5		
275			275	14.3(1.45)	110		123.8		
300			300	13.1(1.33)	120		135		
350			350	11.2(1.14)	140		157.5		
400	400	9.8(1.00)	160		180				
DE-SWF60 - 60	60	33	60	94.0(9.59)	24	2256	27	2538	
70			70	80.6(8.22)	28	{230}	31.5	{259}	
80			80	70.5(7.19)	32		36		
90			90	62.7(6.39)	36		40.5		
100			100	56.4(5.75)	40		45		
125			125	45.1(4.60)	50		56.3		
150			150	37.6(3.83)	60		67.5		
175			175	32.2(3.29)	70		78.8		
200			200	28.2(2.88)	80		90		
225			225	25.1(2.56)	90		101.3		
250			250	22.6(2.30)	100		112.5		
275			275	20.5(2.09)	110		123.8		
300	300	18.8(1.92)	120		135				
350	350	16.1(1.64)	140		157.5				
400	400	14.1(1.44)	160		180				
DE-SWF70 - 70	70	38.5	70	112(11.4)	28	3136	31.5	3528	
80			80	98.0(9.99)	32	{320}	36	{360}	
90			90	87.1(8.88)	36		40.5		
100			100	78.4(7.99)	40		45		
125			125	62.7(6.40)	50		56.3		
150			150	52.3(5.33)	60		67.5		
175			175	44.8(4.57)	70		78.8		
200			200	39.2(4.00)	80		90		
250			250	31.4(3.20)	100		112.5		
300			300	26.1(2.66)	120		135		
350	350	22.4(2.28)	140		157.5				

● Load calculation method: Load = Spring constant x Deflection

(SI units) N = N/mm x Fmm
 kgf = kgf/mm x Fmm
 (kgf = N x 0.101972)

