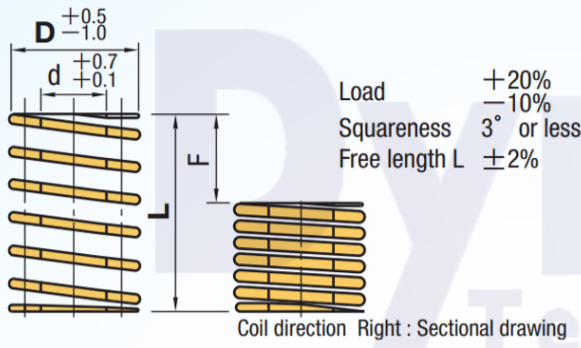


Economy Coil Spring - DE-SWS



Part Number Type D - L	D	d	L	Spring Constant		F = L x 40%	
				N/mm {kgf/mm}	Fmm	Load N(Kgf)	
DE-SWS 10.5 - 20	10.5	5.5	20	10.90(1.11)	8	87.2 {8.9}	
			25	8.72(0.89)	10		
			30	7.27(0.74)	12		
			35	6.23(0.64)	14		
			40	5.45(0.56)	16		
			45	4.84(0.49)	18		
			50	4.36(0.44)	20		
			55	3.96(0.40)	22		
			60	3.63(0.37)	24		
			65	3.35(0.34)	26		
			70	3.11(0.32)	28		
			75	2.91(0.30)	30		
			80	2.73(0.28)	32		
DE - SWS 12.5 - 20	12.5	6.5	20	15.25(1.56)	8	122 {12.4}	
			25	12.20(1.24)	10		
			30	10.17(1.04)	12		
			35	8.71(0.89)	14		
			40	7.63(0.78)	16		
			45	6.78(0.69)	18		
			50	6.10(0.62)	20		
			55	5.55(0.57)	22		
			60	5.08(0.52)	24		
			65	4.69(0.48)	26		
			70	4.36(0.44)	28		
			75	4.07(0.41)	30		
			80	3.81(0.39)	32		
DE - SWS 14.5 - 20	14.5	8.5	20	24.50(2.50)	8	196.0 {20.0}	
			25	19.61(2.00)	10		
			30	16.33(1.67)	12		
			35	14.00(1.43)	14		
			40	12.25(1.25)	16		
			45	10.89(1.11)	18		
			50	9.80(1.00)	20		
			55	8.91(0.91)	22		
			60	8.17(0.83)	24		
			65	7.54(0.77)	26		
			70	7.00(0.71)	28		
			75	6.53(0.67)	30		
			80	6.13(0.62)	32		
90	5.44(0.56)	36					
100	4.90(0.50)	40					
125	3.92(0.40)	50					
150	3.27(0.33)	60					
E - SWS 17 - 25	17	10.5	25	29.42(3.00)	10	294.2 {30.0}	
			30	24.52(2.50)	12		
			35	21.01(2.14)	14		
			40	18.39(1.88)	16		
			45	16.34(1.67)	18		
			50	14.71(1.50)	20		
			55	13.37(1.36)	22		
			60	12.26(1.25)	24		
			65	11.32(1.15)	26		
			70	10.51(1.07)	28		
			75	9.81(1.00)	30		
			80	9.19(0.94)	32		
			90	8.17(0.83)	36		
100	7.35(0.75)	40					
125	5.88(0.60)	50					
150	4.90(0.50)	60					
DE - SWS 21 - 30	21	13.5	30	35.17(3.59)	12	422.0 {43.0}	
			35	30.14(3.07)	14		
			40	26.38(2.69)	16		
			45	23.44(2.39)	18		
			50	21.10(2.15)	20		
			55	19.18(1.96)	22		
			60	17.58(1.79)	24		
			65	16.23(1.66)	26		
			70	15.07(1.54)	28		
			75	14.07(1.43)	30		
			80	13.19(1.34)	32		
			90	11.72(1.20)	36		
			100	10.55(1.08)	40		
110	9.59(0.98)	44					
120	8.79(0.90)	48					
125	8.44(0.86)	50					
130	8.12(0.83)	52					
140	7.54(0.77)	56					
150	7.03(0.72)	60					
175	6.03(0.61)	70					
200	5.28(0.54)	80					

Part Number Type D - L	D	d	L	Spring Constant		F = L x 40%				
				N/mm {kgf/mm}	Fmm	Load N(Kgf)				
DE - SWS 26 - 30	31	21	30	47.42(4.84)	12	784 {79.9}				
			35	40.64(4.14)	14					
			40	35.56(3.63)	16					
			45	31.61(3.22)	18					
			50	28.45(2.90)	20					
			55	25.86(2.64)	22					
			60	23.71(2.42)	24					
			65	21.88(2.23)	26					
			70	20.32(2.07)	28					
			75	18.97(1.93)	30					
			80	17.78(1.81)	32					
			90	15.81(1.61)	36					
			100	14.23(1.45)	40					
110	12.93(1.32)	44								
120	11.85(1.21)	48								
125	11.38(1.16)	50								
130	10.94(1.12)	52								
140	10.16(1.04)	56								
150	9.48(0.97)	60								
175	8.13(0.83)	70								
200	7.11(0.73)	80								
225	6.32(0.64)	90								
250	5.69(0.58)	100								
DE - SWS 37 - 40	37	26	40	49.00(5.00)	16	834 {85.0}				
			45	43.56(4.44)	18					
			50	39.20(4.00)	20					
			55	35.64(3.63)	22					
			60	32.67(3.33)	24					
			65	30.15(3.07)	26					
			70	28.00(2.86)	28					
			75	26.13(2.66)	30					
			80	24.50(2.50)	32					
			90	21.78(2.22)	36					
			100	19.60(2.00)	40					
			110	17.82(1.82)	44					
			120	16.33(1.67)	48					
125	15.68(1.60)	50								
130	15.08(1.54)	52								
140	14.00(1.43)	56								
150	13.07(1.33)	60								
160	12.25(1.25)	64								
170	11.53(1.18)	68								
175	11.20(1.14)	70								
180	10.89(1.11)	72								
190	10.32(1.05)	76								
200	9.80(1.00)	80								
250	7.84(0.80)	100								
300	6.53(0.67)	120								
DE - SWS 44.5 - 50	44.5	31	50	50.15(5.11)	20	1003 {102}				
			60	41.79(4.26)	24					
			70	35.82(3.65)	28					
			80	31.34(3.20)	32					
			90	27.86(2.84)	36					
			100	25.08(2.56)	40					
			110	22.80(2.32)	44					
			120	20.90(2.13)	48					
			130	19.29(1.97)	52					
			140	17.91(1.83)	56					
			150	16.72(1.70)	60					
			160	15.67(1.60)	64					
			160	15.67(1.60)	64					
DE - SWS 46 - 50	46	33	50	63.74(6.50)	20	1275 {130}				
			60	53.12(5.42)	24					
			70	45.53(4.64)	28					
			80	39.84(4.06)	32					
			90	35.41(3.61)	36					
			100	31.87(3.25)	40					
			110	28.97(2.95)	44					
			120	26.56(2.71)	48					
			125	25.50(2.60)	50					
			130	24.52(2.50)	52					
			140	22.77(2.32)	56					
			DE - SWS 52 - 60	52	37		60	65.42(6.67)	24	1570 {160}
							70	56.07(5.72)	28	
80	49.06(5.00)	32								
90	43.61(4.45)	36								
100	39.25(4.00)	40								
110	35.68(3.64)	44								
120	32.71(3.34)	48								
130	30.19(3.08)	52								
140	28.04(2.86)	56								
150	26.17(2.67)	60								
175	22.43(2.29)	70								
200	19.63(2.00)	80								
225	17.44(1.78)	90								
250	15.70(1.60)	100								

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)

