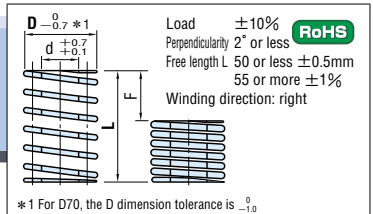
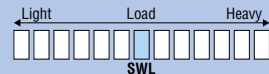


COIL SPRINGS

—SWL—



*1 For D70, the D dimension tolerance is -0.1

D	d	L	Spring constant			Catalog No.	Base unit price	
			F=LX32%	F=LX36%	F=LX40%			
Operation count			1,000,000	500,000	300,000	Type D—L	1~19 pieces	
6	3	15	13.1 (1.33)	4.8	5.4	6.0	SWL6—15	
		20	9.8 (1.00)	6.4	7.2	8.0	20	
		25	7.8 (0.80)	8.0	9.0	10.0	25	
		30	6.5 (0.67)	9.6	10.8	12.0	30	
		35	5.6 (0.57)	11.2	12.6	14.0	35	
40	4.9 (0.50)	12.8	14.4	16.0	40			
8	4	10	24.5 (2.50)	3.2	3.6	4.0	SWL8—10	
		15	16.3 (1.67)	4.8	5.4	6.0	15	
		20	12.3 (1.25)	6.4	7.2	8.0	20	
		25	9.8 (1.00)	8.0	9.0	10.0	25	
		30	8.2 (0.83)	9.6	10.8	12.0	30	
		35	7.0 (0.71)	11.2	12.6	14.0	35	
		40	6.1 (0.63)	12.8	14.4	16.0	40	
		45	5.4 (0.56)	14.4	16.2	18.0	45	
		50	4.9 (0.50)	16.0	18.0	20.0	50	
		55	4.5 (0.45)	17.6	19.8	22.0	55	
		60	4.1 (0.42)	19.2	21.6	24.0	60	
		65	3.8 (0.38)	20.8	23.4	26.0	65	
		70	3.5 (0.36)	22.4	25.2	28.0	70	
		75	3.3 (0.33)	24.0	27.0	30.0	75	
		80	3.1 (0.31)	25.6	28.8	32.0	80	
10	5	10	34.3 (3.50)	3.2	3.6	4.0	SWL10—10	
		15	22.9 (2.33)	4.8	5.4	6.0	15	
		20	17.2 (1.75)	6.4	7.2	8.0	20	
		25	13.7 (1.40)	8.0	9.0	10.0	25	
		30	11.4 (1.17)	9.6	10.8	12.0	30	
		35	9.8 (1.00)	11.2	12.6	14.0	35	
		40	8.6 (0.88)	12.8	14.4	16.0	40	
		45	7.6 (0.78)	14.4	16.2	18.0	45	
		50	6.9 (0.70)	16.0	18.0	20.0	50	
		55	6.2 (0.64)	17.6	19.8	22.0	55	
		60	5.7 (0.58)	19.2	21.6	24.0	60	
		65	5.3 (0.54)	20.8	23.4	26.0	65	
		70	4.9 (0.50)	22.4	25.2	28.0	70	
		75	4.6 (0.47)	24.0	27.0	30.0	75	
		80	4.3 (0.44)	25.6	28.8	32.0	80	
90	3.8 (0.39)	28.8	32.4	36.0	90			
12	6	15	34.3 (3.50)	4.8	5.4	6.0	SWL12—15	
		20	25.7 (2.63)	6.4	7.2	8.0	20	
		25	20.6 (2.10)	8.0	9.0	10.0	25	
		30	17.2 (1.75)	9.6	10.8	12.0	30	
		35	14.7 (1.50)	11.2	12.6	14.0	35	
		40	12.9 (1.31)	12.8	14.4	16.0	40	
		45	11.4 (1.17)	14.4	16.2	18.0	45	
		50	10.3 (1.05)	16.0	18.0	20.0	50	
		55	9.4 (0.95)	17.6	19.8	22.0	55	
		60	8.6 (0.88)	19.2	21.6	24.0	60	
		65	7.9 (0.81)	20.8	23.4	26.0	65	
		70	7.4 (0.75)	22.4	25.2	28.0	70	
		75	6.9 (0.70)	24.0	27.0	30.0	75	
		80	6.4 (0.66)	25.6	28.8	32.0	80	
		90	5.7 (0.58)	28.8	32.4	36.0	90	
14	7	20	34.3 (3.50)	6.4	7.2	8.0	SWL14—20	
		25	27.5 (2.80)	8.0	9.0	10.0	25	
		30	22.9 (2.33)	9.6	10.8	12.0	30	
		35	19.6 (2.00)	11.2	12.6	14.0	35	
		40	17.2 (1.75)	12.8	14.4	16.0	40	
		45	15.3 (1.56)	14.4	16.2	18.0	45	
		50	13.7 (1.40)	16.0	18.0	20.0	50	
		55	12.5 (1.27)	17.6	19.8	22.0	55	
		60	11.4 (1.17)	19.2	21.6	24.0	60	
		65	10.6 (1.08)	20.8	23.4	26.0	65	
		70	9.8 (1.00)	22.4	25.2	28.0	70	
		75	9.2 (0.93)	24.0	27.0	30.0	75	
		80	8.6 (0.88)	25.6	28.8	32.0	80	
		90	7.6 (0.78)	28.8	32.4	36.0	90	
		100	6.9 (0.70)	32.0	36.0	40.0	100	

D	d	L	Spring constant			Catalog No.	Base unit price	
			F=LX32%	F=LX36%	F=LX40%			
Operation count			1,000,000	500,000	300,000	Type D—L	1~19 pieces	
16	8	20	42.9 (4.38)	6.4	7.2	8.0	SWL16—20	
		25	34.3 (3.50)	8.0	9.0	10.0	25	
		30	28.6 (2.92)	9.6	10.8	12.0	30	
		35	24.5 (2.50)	11.2	12.6	14.0	35	
		40	21.5 (2.19)	12.8	14.4	16.0	40	
		45	19.1 (1.94)	14.4	16.2	18.0	45	
		50	17.2 (1.75)	16.0	18.0	20.0	50	
		55	15.6 (1.59)	17.6	19.8	22.0	55	
		60	14.3 (1.46)	19.2	21.6	24.0	60	
		65	13.2 (1.35)	20.8	23.4	26.0	65	
		70	12.3 (1.25)	22.4	25.2	28.0	70	
		75	11.4 (1.17)	24.0	27.0	30.0	75	
		80	10.7 (1.09)	25.6	28.8	32.0	80	
		90	9.5 (0.97)	28.8	32.4	36.0	90	
		100	8.6 (0.88)	32.0	36.0	40.0	100	
125	6.9 (0.70)	40.0	45.0	50.0	125			
18	9	20	52.7 (5.38)	6.4	7.2	8.0	SWL18—20	
		25	42.2 (4.30)	8.0	9.0	10.0	25	
		30	35.1 (3.58)	9.6	10.8	12.0	30	
		35	30.1 (3.07)	11.2	12.6	14.0	35	
		40	26.4 (2.69)	12.8	14.4	16.0	40	
		45	23.4 (2.39)	14.4	16.2	18.0	45	
		50	21.1 (2.15)	16.0	18.0	20.0	50	
		55	19.2 (1.95)	17.6	19.8	22.0	55	
		60	17.6 (1.79)	19.2	21.6	24.0	60	
		65	16.2 (1.65)	20.8	23.4	26.0	65	
		70	15.1 (1.54)	22.4	25.2	28.0	70	
		75	14.1 (1.43)	24.0	27.0	30.0	75	
		80	13.2 (1.34)	25.6	28.8	32.0	80	
		90	11.7 (1.19)	28.8	32.4	36.0	90	
		100	10.5 (1.08)	32.0	36.0	40.0	100	
125	8.4 (0.86)	40.0	45.0	50.0	125			
20	10	20	66.2 (6.75)	6.4	7.2	8.0	SWL20—20	
		25	53.0 (5.40)	8.0	9.0	10.0	25	
		30	44.1 (4.50)	9.6	10.8	12.0	30	
		35	37.8 (3.86)	11.2	12.6	14.0	35	
		40	33.1 (3.38)	12.8	14.4	16.0	40	
		45	29.4 (3.00)	14.4	16.2	18.0	45	
		50	26.5 (2.70)	16.0	18.0	20.0	50	
		55	24.1 (2.45)	17.6	19.8	22.0	55	
		60	22.1 (2.25)	19.2	21.6	24.0	60	
		65	20.4 (2.08)	20.8	23.4	26.0	65	
		70	18.9 (1.93)	22.4	25.2	28.0	70	
		75	17.7 (1.80)	24.0	27.0	30.0	75	
		80	16.5 (1.69)	25.6	28.8	32.0	80	
		90	14.7 (1.50)	28.8	32.4	36.0	90	
		100	13.2 (1.35)	32.0	36.0	40.0	100	
125	10.6 (1.08)	40.0	45.0	50.0	125			
150	8.8 (0.90)	48.0	54.0	60.0	150			
22	11	25	65.7 (6.70)	8.0	9.0	10.0	SWL22—25	
		30	54.8 (5.58)	9.6	10.8	12.0	30	
		35	46.9 (4.79)	11.2	12.6	14.0	35	
		40	41.1 (4.19)	12.8	14.4	16.0	40	
		45	36.5 (3.72)	14.4	16.2	18.0	45	
		50	32.9 (3.35)	16.0	18.0	20.0	50	
		55	29.9 (3.05)	17.6	19.8	22.0	55	
		60	27.4 (2.79)	19.2	21.6	24.0	60	
		65	25.3 (2.58)	20.8	23.4	26.0	65	
		70	23.5 (2.39)	22.4	25.2	28.0	70	
		75	21.9 (2.23)	24.0	27.0	30.0	75	
		80	20.5 (2.09)	25.6	28.8	32.0	80	
		90	18.3 (1.86)	28.8	32.4	36.0	90	
		100	16.4 (1.68)	32.0	36.0	40.0	100	
		125	13.1 (1.34)	40.0	45.0	50.0	125	
150	11.0 (1.12)	48.0	54.0	60.0	150			

D	d	L	Spring constant			Catalog No.	Base unit price			
			F=LX32%	F=LX36%	F=LX40%					
Operation count			1,000,000	500,000	300,000	Type D—L	1~19 pieces			
25	12.5	25	82.4 (8.40)	8.0	9.0	10.0	SWL25—25			
		30	68.6 (7.00)	9.6	10.8	12.0	30			
		35	58.8 (6.00)	11.2	12.6	14.0	35			
		40	51.5 (5.25)	12.8	14.4	16.0	40			
		45	45.8 (4.67)	14.4	16.2	18.0	45			
		50	41.2 (4.20)	16.0	18.0	20.0	50			
		55	37.4 (3.82)	17.6	19.8	22.0	55			
		60	34.3 (3.50)	19.2	21.6	24.0	60			
		65	31.7 (3.23)	20.8	23.4	26.0	65			
		70	29.4 (3.00)	22.4	25.2	28.0	70			
		75	27.5 (2.80)	24.0	27.0	30.0	75			
		80	25.7 (2.63)	25.6	28.8	32.0	80			
		90	22.9 (2.33)	28.8	32.4	36.0	90			
		100	20.6 (2.10)	32.0	36.0	40.0	100			
		125	16.5 (1.68)	40.0	45.0	50.0	125			
		150	13.7 (1.40)	48.0	54.0	60.0	150			
		175	11.8 (1.20)	56.0	63.0	70.0	175			
		200	10.3 (1.05)	64.0	72.0	80.0	200			
		27	13.5	25	98.1 (10.0)	8.0	9.0	10.0	SWL27—25	
				30	81.7 (8.33)	9.6	10.8	12.0	30	
35	70.0 (7.14)			11.2	12.6					