

# Coil Springs

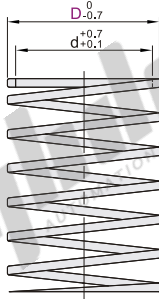
## Very Light Load Spring (Yellow)

Code	Type	Material	Maximum Allowable Deflection
<b>YSWF</b>	Very Light Load	Oil-cooled tempered spring steel	L×50%

### L Dimensional Tolerance

L	Tol.
50 or Less	±0.5
50 or More	±1.0%

- Load (±10%).
- Perpendicularity (2° or Less).
- Load (N): Spring constant (N/mm) × Deflection(Fmm)
- Heat resistant temperature is 150 °C.
- 1kgf=9.81N.
- The solid height values are for reference only. There may be some variation between lots.
- The spring color and number of turns may vary depending on the production batch. But the performance of the product meets the standard and does not affect the use.



The first perspective



Part Number	Inner Dia.			Spring Constant N/mm	Usage Method						
	D	L	d		Solid Height	Fmm	Load N	Fmm	Load N	Fmm	Load N
6	15			7.80	7.1	7.5		6.8	6.0		
	20			5.90	9.5	10		9.0	8.0		
	25		3	4.70	11.9	12.5	59	11.3	10.0	53	47
	30			3.90	14.2	15		13.5	12.0		
	35			3.40	16.6	17.5		15.8	14.0		
	40			2.90	19.0	20		18.0	16.0		
	45			15.24	4.5	5.0		4.5	4		
	50			10.16	6.8	7.5		6.8	6		
	20			7.62	9.0	10.0		9.0	8		
	25			6.10	11.3	12.5		11.3	10		
30			5.08	13.5	15.0		13.5	12			
35			4.36	15.8	17.5		15.8	14			
40			3.81	18.0	20.0		18.0	16			
45	45		4	3.39	20.3	22.5	78.5	20.3	68.6	18	58.8
50			3.05	22.5	25.0		22.5	20			
55			2.77	24.8	27.5		24.8	22			
60			2.54	27.0	30.0		27.0	24			
65			2.35	30.8	32.5		29.3	26			
70			2.18	33.2	35.0		31.5	28			
75			2.10	35.6	37.5		33.8	30			
80			1.91	37.9	40.0		36.0	32			
10			19.50	4.5	5.0		4.5	4			
15			13.20	6.8	7.5		6.8	6			
20			9.81	9.0	10.0		9.0	8			
25			7.85	11.3	12.5		11.3	10			
30			6.54	13.5	15.0		13.5	12			
35			5.61	15.8	17.5		15.8	14			
40			4.91	18.0	20.0		18.0	16			
45			4.36	20.3	22.5		20.3	18			
50	10		5	3.92	22.5	25.0	98.1	22.5	88.3	20	78.5
55			3.57	24.8	27.5		24.8	22			
60			3.27	27.0	30.0		27.0	24			
65			3.02	29.3	32.5		29.3	26			
70			2.80	31.5	35.0		31.5	28			
75			2.62	33.8	37.5		33.8	30			
80			2.45	36.0	40.0		36.0	32			
90			2.18	40.5	45.0		40.5	36			
100			1.96	48.4	50.0		45.0	40			
15			18.20	6.7	7.5		6.8	6			
20			13.62	9.0	10.0		9.0	8			
25			10.90	11.3	12.5		11.3	10			
30			9.08	13.5	15.0		13.5	12			
35			7.78	15.8	17.5		15.8	14			
40			6.81	18.0	20.0		18.0	16			
45			6.05	20.3	22.5		20.3	18			
50	12		6	5.45	22.5	25.0	137.3	22.5	122.6	20	107.9
55			4.95	24.8	27.5		24.8	22			
60			4.54	27.0	30.0		27.0	24			
65			4.19	29.3	32.5		29.3	26			
70			3.89	31.5	35.0		31.5	28			
75			3.63	33.8	37.5		33.8	30			
80			3.41	36.0	40.0		36.0	32			
90			3.03	40.5	45.0		40.5	36			
100			2.74	48.2	50.0		45.0	40			
20			17.60	8.9	9.8		9.1	8.1			
25			13.95	11.3	12.5		11.3	10			
30			11.62	13.5	15.0		13.5	12			
35	14		7	9.96	15.8	17.5	176.5	15.8	156.9	14	142.2
40			8.72	18.0	20.0		18.0	16			
45			7.75	20.3	22.5		20.3	18			
50			6.97	22.5	25.0		22.5	20			
55			6.34	24.8	27.5		24.8	22			

Part Number	Inner Dia.			Spring Constant N/mm	Usage Method						
	D	L	d		Solid Height	Fmm	Load N	Fmm	Load N	Fmm	Load N
14	60			5.81	27.0	30.0		27.0	24		
	65			5.36	29.3	32.5		29.3	26		
	70			4.98	31.5	35.0		31.5	28		
	75		7	4.65	33.8	37.5	176.5	33.8	156.9	30	142.2
	80			4.36	36.0	40.0		36.0	32		
	90			3.87	40.5	45.0		40.5	36		
	100			3.49	45.0	50.0		45.0	40		
	20			20.50	9.1	10.1		9.1	8.2		
	25			16.56	11.3	12.5		11.3	10		
	30			13.80	13.5	15.0		13.5	12		
35			11.83	15.8	17.5		15.8	14			
40			10.35	18.0	20.0		18.0	16			
45			9.20	20.3	22.5		20.3	18			
50			8.28	22.5	25.0		22.5	20			
55	16		8	7.53	24.8	27.5	206	24.8	185	22	165
60			6.90	27.0	30.0		27.0	24			
65			6.37	29.3	32.5		29.3	26			
70			5.91	31.5	35.0		31.5	28			
75			5.25	33.8	37.5		33.8	30			
80			5.18	36.0	40.0		36.0	32			
90			4.60	40.5	45.0		40.5	36			
100			4.14	45.0	50.0		45.0	40			
20			25.50	9.1	10.1		9.1	8.2			
25			20.09	11.3	12.5		11.3	10			
30			16.74	13.5	15.0		13.5	12			
35			14.35	15.8	17.5		15.8	14			
40			12.56	18.0	20.0		18.0	16			
45			11.16	20.3	22.5		20.3	18			
50			10.04	22.5	25.0		22.5	20			
55	18		9	9.13	24.8	27.5	255	24.8	226	22	206
60			8.37	27.0	30.0		27.0	24			
65			7.73	29.3	32.5		29.3	26			
70			7.17	31.5	35.0		31.5	28			
75			6.70	33.8	37.5		33.8	30			
80			6.28	36.0	40.0		36.0	32			
90			5.58	40.5	45.0		40.5	36			
100			5.02	45.0	50.0		45.0	40			
20			31.30	9.1	10.1		9.1	8.2			
25			25.24	11.3	12.5		11.3	10			
30			21.04	13.5	15.0		13.5	12			
35			18.03	15.8	17.5		15.8	14			
40			15.78	18.0	20.0		18.0	16			
45			14.02	20.3	22.5		20.3	18			
50			12.62	22.5	25.0		22.5	20			
55	20		11	11.47	24.8	27.5	314	24.8	284	22	255
60			10.52	27.0	30.0		27.0	24			
65			9.71	29.3	32.5		29.3	26			
70			9.02	31.5	35.0		31.5	28			
75			8.41	33.8	37.5		33.8	30			
80			7.89	36.0	40.0		36.0	32			
90			7.01	40.5	45.0		40.5	36			
100			6.31	45.0	50.0		45.0	40			

Part Number			Inner Dia. d	Spring Constant N/mm	a Solid Height Fmm	Usage Method						
Code	D	L				0.3 million times F=L×50%	0.5 million times F=L×45%	1 million times F=L×40%	Load N	Fmm	Load N	Fmm
YSWF		20	13.5	49.00	9.45	10.0		9.0		8		
		25		39.20	11.3	12.5		11.3		10		
		30		32.67	13.5	15.0		13.5		12		
		35		28.00	15.8	17.5		15.8		14		
		40		24.50	18.0	20.0		18.0		16		
		45		21.78	20.3	22.5		20.3		18		
		50		19.60	22.5	25.0		22.5		20		
	25	55		17.82	24.8	27.5	490	24.8	441	22	392	
		60		16.33	27.0	30.0		27.0		24		
		65		15.08	29.3	32.5		29.3		26		
		70	14.00	31.5	35.0		31.5		28			
		75	13.07	33.8	37.5		33.8		30			
		80	12.25	36.0	40.0		36.0		32			
		90	10.89	40.5	45.0		40.5		36			
		100	9.80	45.0	50.0		45.0		40			
		25	56.62	11.3	12.5		11.3		10			
		30	47.19	13.5	15.0		13.5		12			
		35	40.44	15.8	17.5		15.8		14			
		40	35.39	18.0	20.0		18.0		16			
		45	31.46	20.3	22.5		20.3		18			
		50	28.31	22.5	25.0		22.5		20			
	30	55	25.74	24.8	27.5	706	24.8	637	22	569		
		60	23.59	27.0	30.0		27.0		24			
		65	21.78	29.3	32.5		29.3		26			
		70	20.22	31.5	35.0		31.5		28			
		75	18.87	33.8	37.5		33.8		30			
		80	17.69	36.0	40.0		36.0		32			
		90	15.73	40.5	45.0		40.5		36			
		100	14.16	45.0	50.0		45.0		40			
		40	47.94	18.0	20.0		18.0		16			
		45	42.62	20.3	22.5		20.3		18			
		50	38.36	22.5	25.0		22.5		20			
		55	34.87	24.8	27.5		24.8		22			
		60	31.96	27.0	30.0		27.0		24			
	35	65	29.50	29.3	32.5	961	29.3	863	26	765		
		70	27.40	31.5	35.0		31.5		28			
		75	25.57	33.8	37.5		33.8		30			
		80	23.97	36.0	40.0		36.0		32			
		90	21.31	40.5	45.0		40.5		36			
		100	19.18	45.0	50.0		45.0		40			
	40	62.67	18.0	20.0		18.0		16				
	45	55.77	21.4	22.5		20.25		18				
	50	50.13	22.5	25.0		22.5		20				
	55	45.58	24.8	27.5		24.8		22				
	60	41.78	27.0	30.0		27.0		24				
40	65	38.56	29.3	32.5	1255	29.3	1128	26	1000			
	70	35.81	31.5	35.0		31.5		28				
	75	33.42	35.6	37.5		33.8		30				
	80	31.33	36.0	40.0		36.0		32				
	90	27.85	40.5	45.0		40.5		36				
	100	25.07	45.0	50.0		45.0		40				



Part Number		
Code	D	L
YSWF	40	45

YSWF - D40 - L45



Discount price	
Per	1~19
Price	100% Additional quotation



Delivery	
Per	1~19
Price	4

