

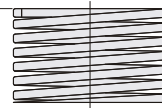
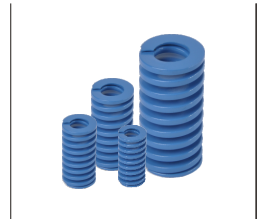
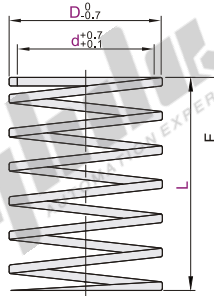
Coil Springs ◀ Light Load Spring (Blue)

Code	Type	Material	Maximum Allowable Deflection
YSWL	Light Load	Oil-Cooled Tempered Spring Steel	L×40%

□ L Dimensional Tolerance

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

- ① Load(±10%).
- ② Perpendicularity (2° or Less).
- ③ Load (N): Spring constant (N/mm) × Deflection(Fmm)
- ④ Heat resistant temperature is 150 °C.
- ⑤ 1kgf=9.81N.
- ⑥ The solid height values are for reference only. There may be some variation between lots.
- ⑦ 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	a	Usage Method				
Code	D	L	d	Solid Height Fmm	Load N	Fmm	Load N	Fmm	Load N
6	3	15	13.10	8.6	6.0	5.4	4.8		
		20	9.80	11.5	8.0	7.2	6.4		
		25	7.80	14.4	10.0	9.0	8.0		
		30	6.50	17.2	12.0	78	10.8	71	9.6
		35	5.60	20.1	14.0	12.6	11.2		
		40	4.90	23.0	16.0	14.4	12.8		
		50	3.90	19.1	20.0	18.0	16.0		
		10	24.53	5.4	4.0	3.6	3.2		
		15	16.35	8.1	6.0	5.4	4.8		
		20	12.26	10.8	8.0	7.2	6.4		
8	4	25	9.81	13.5	10.0	9.0	8.0		
		30	8.18	16.2	12.0	10.8	9.6		
		35	7.01	18.9	14.0	12.6	11.2		
		40	6.13	21.6	16.0	14.4	12.8		
		45	5.45	24.3	18.0	98.1	16.2	88.3	14.4
		50	4.91	27.0	20.0	18.0	16.0		
		55	4.46	29.7	22.0	19.8	17.6		
		60	4.09	32.4	24.0	21.6	19.2		
		65	3.77	37.5	26.0	23.4	20.8		
		70	3.50	40.2	28.0	25.2	22.4		
10	5	75	3.30	43.2	30.0	27.0	24.0		
		80	3.07	45.9	32.0	28.8	25.6		
		10	34.30	5.4	4.0	3.6	3.2		
		15	22.90	8.1	6.0	5.4	4.8		
		20	17.71	10.8	8.0	7.2	6.4		
		25	14.17	13.5	10.0	9.0	8.0		
		30	11.81	16.2	12.0	10.8	9.6		
		35	10.12	18.9	14.0	12.6	11.2		
		40	8.85	21.6	16.0	14.4	12.8		
		45	7.87	24.3	18.0	16.2	14.4		
12	6	50	7.08	27.0	20.0	18.0	16.0		
		55	6.44	29.7	22.0	19.8	17.6		
		60	5.90	32.4	24.0	21.6	19.2		
		65	5.45	35.1	26.0	23.4	20.8		
		70	5.06	37.8	28.0	25.2	22.4		
		75	4.72	40.5	30.0	27.0	24.0		
		80	4.72	43.2	32.0	28.8	25.6		
		90	3.94	48.6	36.0	32.4	28.8		
		100	3.42	38.5	40.0	137	36.0	124	32.0
		15	34.30	8.1	6.0	5.4	4.8		
14	7	20	25.88	10.8	8.0	7.2	6.4		
		25	20.70	13.5	10.0	9.0	8.0		
		30	17.25	16.2	12.0	10.8	9.6		
		35	14.79	18.9	14.0	12.6	11.2		
		40	12.94	21.6	16.0	14.4	12.8		
		45	11.50	24.3	18.0	16.2	14.4		
		50	10.35	27.0	20.0	206.8	18.0	186.3	16.0
		55	9.41	29.7	22.0	19.8	17.6		
		60	8.63	32.4	24.0	21.6	19.2		
		65	7.96	35.1	26.0	23.4	20.8		
16	8	70	7.39	37.8	28.0	25.2	22.4		
		75	6.90	40.5	30.0	27.0	24.0		
		80	6.47	43.2	32.0	28.8	25.6		
		90	5.75	48.6	36.0	32.4	28.8		
		100	5.15	38.5	40.0	36.0	32.0		
		20	34.30	10.8	8.0	7.2	6.4		
		25	27.22	13.5	10.0	9.0	8.0		
		30	22.69	16.2	12.0	10.8	9.6		
		35	19.44	18.9	14.0	12.6	11.2		
		40	17.01	21.6	16.0	14.4	12.8		
18	9	45	15.12	24.3	18.0	16.2	14.4		

Part Number		Inner Dia.	Spring Constant N/mm	a	Usage Method				
Code	D	L	d	Solid Height Fmm	Load N	Fmm	Load N	Fmm	Load N
14	7	50	13.61	27.0	20.0	18.0	16.0		
		55	12.37	29.7	22.0	19.8	17.6		
		60	11.34	32.4	24.0	21.6	19.2		
		65	10.47	35.1	26.0	23.4	20.8		
		70	9.72	37.8	28.0	275	25.2	245	216
		75	9.07	40.5	30.0	27.0	24.0		
		80	8.51	43.2	32.0	28.8	25.6		
		90	7.56	48.6	36.0	32.4	28.8		
		100	6.81	54.0	40.0	36.0	32.4		
		20	42.90	10.8	8.0	7.2	6.4		
16	8	25	34.89	13.5	10.0	9.0	8.0		
		30	29.07	16.2	12.0	10.8	9.6		
		35	24.92	18.9	14.0	12.6	11.2		
		40	21.81	21.6	16.0	14.4	12.8		
		45	19.38	24.3	18.0	16.2	14.4		
		50	17.44	27.0	20.0	18.0	16.0		
		55	15.86	29.7	22.0	19.8	17.6		
		60	14.54	32.4	24.0	21.6	19.2		
		65	13.42	35.1	26.0	23.4	20.8		
		70	12.46	37.8	28.0	25.2	22.4		
18	9	75	11.63	40.5	30.0	27.0	24.0		
		80	10.90	43.2	32.0	28.8	25.6		
		90	9.69	48.6	36.0	32.4	28.8		
		100	8.72	54.0	40.0	36.0	32.4		
		20	52.70	10.8	8.0	7.2	6.4		
		25	42.44	13.5	10.0	9.0	8.0		
		30	35.37	16.2	12.0	10.8	9.6		
		35	30.32	18.9	14.0	12.6	11.2		
		40	26.53	21.6	16.0	14.4	12.8		
		45	23.58	24.3	18.0	16.2	14.4		
20	10	50	21.22	27.0	20.0	18.0	16.0		
		55	19.29	29.7	22.0	422	19.8	382	17.6
		60	17.69	32.4	24.0	21.6	19.2		
		65	16.32	35.1	26.0	23.4	20.8		
		70	15.16	37.8	28.0	25.2	22.4		
		75	14.15	40.5	30.0	27.0	24.0		
		80	13.26	43.2	32.0	28.8	25.6		
		90	11.79	48.6	36.0	32.4	28.8		
		100	10.61	54.0	40.0	36.0	32.4		
		20	66.20	10.8	8.0	7.2	6.4		
25	13	25	53.44	13.5	10.0	9.0	8.0		
		30	44.54	16.2	12.0	10.8	9.6		
		35	38.17	18.9	14.0	12.6	11.2		
		40	33.40	21.6	16.0	14.4	12.8		
		45	29.69	24.3	18.0	16.2	14.4		
		50	26.72	27.0	20.0	18.0	16.0		
		55	24.29	29.7	22.0	530	19.8	481	17.6
		60	22.27	32.4	24.0	21.6	19.2		
		65	20.40	35.1	26.0	23.4	20.8		
		70	19.09	37.8	28.0	25.2	22.4		
30	15	75	17.81	40.5	30.0	27.0	24.0		
		80	16.70	43.2	32.0	28.8	25.6		
		90	14.85	48.6	36.0	32.4	28.8		
		100	13.36	54.0	40.0	36.0	32.4		

Light Load Spring (Blue) ▶

Coil Springs

Part Number			Inner Dia.	Spring Constant N/mm	a	Usage Method					
Code	D	L	d			0.3 million times F=L×40%	0.5 million times F=L×36%	1 million times F=L×32%			
	20			103.00	7.5	8.0		7.2		6.4	
	25			82.78	13.5	10.0		9.0		8.0	
	30			68.98	16.2	12.0		10.8		9.6	
	35			59.13	18.9	14.0		12.6		11.2	
	40			51.74	21.6	16.0		14.4		12.8	
	45			45.99	24.3	18.0		16.2		14.4	
	50			41.39	27.0	20.0		18.0		16.0	
25	55	12.5		37.63	29.7	22.0	824	19.8	745	17.6	657
	60			34.49	32.4	24.0		21.6		19.2	
	65			31.84	35.1	26.0		23.4		20.8	
	70			29.56	37.8	28.0		25.2		22.4	
	75			27.59	40.5	30.0		27.0		24.0	
	80			25.87	43.2	32.0		28.8		25.6	
	90			22.99	48.6	36.0		32.4		28.8	
	100			20.69	54.0	40.0		36.0		32.4	
	25			118.78	13.5	10.0		9.0		8.0	
	30			98.98	16.2	12.0		10.8		9.6	
	35			84.84	18.9	14.0		12.6		11.2	
	40			74.24	21.6	16.0		14.4		12.8	
	45			65.99	24.3	18.0		16.2		14.4	
	50			59.39	27.0	20.0		18.0		16.0	
	55	15		53.99	29.7	22.0	1187	19.8	1069	17.6	951
	60			49.49	32.4	24.0		21.6		19.2	
	65			45.68	35.1	26.0		23.4		20.8	
	70			42.42	37.8	28.0		25.2		22.4	
	75			39.59	40.5	30.0		27.0		24.0	
	80			37.12	43.2	32.0		28.8		25.6	
	90			32.99	48.6	36.0		32.4		28.8	
30	100			29.69	54.0	40.0		36.0		32.4	
	30			65.41	16.2	12.0		10.8		9.6	
	35			56.06	18.9	14.0		12.6		11.2	
	40			49.06	21.6	16.0		14.4		12.8	
	45			43.60	24.3	18.0		16.2		14.4	
	50			39.24	27.0	20.0		18.0		16.0	
	55			35.68	29.7	22.0		19.8		17.6	
	60	16		32.70	32.4	24.0	785	21.6	706	19.2	627
	65			30.19	35.1	26.0		23.4		20.8	
	70			28.03	37.8	28.0		25.2		22.4	
	75			26.16	40.5	30.0		27.0		24.0	
	80			24.53	43.2	32.0		28.8		25.6	
	90			21.80	48.6	36.0		32.4		28.8	
	100			19.62	54.0	40.0		36.0		32.4	
	40			101.46	21.6	16.0		14.4		12.8	
	45			90.19	24.3	18.0		16.2		14.4	
	50			81.17	27.0	20.0		18.0		16.0	
	55			73.79	29.7	22.0		19.8		17.6	
	60			67.64	32.4	24.0		21.6		19.2	
	65	17.5		62.44	35.1	26.0	1617	23.4	1461	20.8	1295
	70			57.98	37.8	28.0		25.2		22.4	
	75			54.11	40.5	30.0		27.0		24.0	
	80			50.73	43.2	32.0		28.8		25.6	
	90			45.09	48.6	36.0		32.4		28.8	
	100			40.58	54.0	40.0		36.0		32.4	
35	40			52.95	21.6	16.0		14.4		12.8	
	45			47.07	24.3	18.0		16.2		14.4	
	50			42.63	27.0	20.0		18.0		16.0	
	55			38.51	29.7	22.0		19.8		17.6	
	60			35.30	32.4	24.0		21.6		19.2	
	65	20		32.58	35.1	26.0	847	23.4	762	20.8	677
	70			30.26	37.8	28.0		25.2		22.4	
	75			28.24	40.5	30.0		27.0		24.0	
	80			26.48	43.2	32.0		28.8		25.6	
	90			23.53	48.6	36.0		32.4		28.8	
	100			21.18	54.0	40.0		36.0		32.4	

Part Number			Inner Dia.	Spring Constant N/mm	a	Usage Method					
Code	D	L	d			0.3 million times F=L×40%	0.5 million times F=L×36%	1 million times F=L×32%			
	40			132.15	21.6	16.0		14.4		12.8	
	45			117.47	25.8	18.0		16.2		14.4	
	50			105.72	27.0	20.0		18.0		16.0	
	55			96.11	31.6	22.0		19.8		17.6	
	60			88.10	32.4	24.0		21.6		19.2	
	65	20		81.32	37.3	26.0	2120	23.4	1903	20.8	1697
	70			75.52	37.8	28.0		25.2		22.4	
	75			70.48	43.1	30.0		27.0		24.0	
YSWL	40			66.08	45.9	32.0		28.8		25.6	
	90			58.73	48.6	36.0		32.4		28.8	
	100			52.86	54.0	40.0		36.0		32.4	
	50			84.85	27.0	20.0		18.0		16.0	
	60			70.71	32.4	24.0		21.6		19.2	
	70			60.61	37.8	28.0		25.2		22.4	
	80	26		53.03	43.2	32.0	1697	28.8	1527	25.6	1358
	90			47.14	48.6	36.0		32.4		28.8	
	100			42.43	54.0	40.0		36.0		32.4	



Please order as shown

Part Number			d
Code	D	L	
YSWL	35	100	20
		100	

YSWL - D35 - L90 - d20



Discount price		
Per	1~19	20~
Price	100%	Additional quotation



Delivery	
	4