

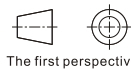
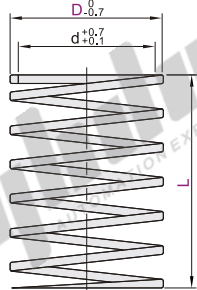
Coil Springs ◀ Medium Load Spring (Red)

Code	Type	Material	Maximum Allowable Deflection
YSWM	Medium Load	Oil-Cooled Tempered Spring Steel	L×32%

☑ 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	a	Usage Method					
Code	D	L	N/mm	Solid Height	0.3 million times F=L×32%	0.5 million times F=L×28.8%	1 million times F=L×25.6%			
				Fmm	Load N	Fmm	Load N	Fmm	Load N	
6	15	3	20.3	9.9	4.7		4.2	3.7		
	20	15.4	13.2	6.5		5.7	5.0			
	25	12.2	16.5	8.0		7.1	6.3			
	30	10.1	19.5	9.5		8.5	7.8			
	35	8.9	22.8	11.3		10.2	9.1			
	40	7.6	26.1	12.8		11.6	10.3			
	45	6.7	29.5	14.5		13.0	11.6			
	50	6.2	32.6	16.0		14.5	12.9			
	55	5.7	36.1	17.5		15.8	14.1			
	60	5.2	39.2	19.3		17.4	15.5			
	10	42.57	6.3	3.2		2.9	2.6			
	15	28.38	9.4	4.8		4.3	3.8			
	20	21.28	12.5	6.4		5.8	5.1			
	25	17.03	15.7	8.0		7.2	6.4			
30	14.19	18.8	9.6		8.6	7.7				
35	12.16	21.9	11.2		10.1	9.0				
40	10.64	25.0	12.8		11.5	10.2				
8	45	4	9.46	28.2	14.4	137	13.0	123	11.5	108
	50	8.51	31.3	16.0		14.4	12.8			
	55	7.74	34.4	17.6		15.8	14.1			
	60	7.09	37.6	19.2		17.3	15.4			
	65	6.55	42.5	20.8		18.7	16.6			
	70	6.08	45.8	22.4		20.2	17.9			
	75	5.68	49.1	24.0		21.6	19.2			
	80	5.5	52.2	25.7		23.1	20.4			
	10	61.20	6.5	3.2		2.9	2.6			
	15	40.80	9.8	4.7		4.3	3.7			
	20	30.64	12.5	6.4		5.8	5.1			
	25	24.51	15.7	8.0		7.2	6.4			
	30	20.43	18.8	9.6		8.6	7.7			
	35	17.51	21.9	11.2		10.1	9.0			
40	15.32	25.0	12.8		11.5	10.2				
45	13.62	28.2	14.4		13.0	11.5				
10	50	5	12.26	31.3	16.0	196	14.4	177	12.8	157
	55	11.14	34.4	17.6		15.8	14.1			
	60	10.21	37.6	19.2		17.3	15.4			
	65	9.43	40.7	20.8		18.7	16.6			
	70	8.75	43.8	22.4		20.2	17.9			
	75	8.17	47.0	24.0		21.6	19.2			
	80	7.66	50.1	25.6		23.0	20.5			
	90	6.81	56.3	28.8		25.9	23.0			
	100	6.10	61.2	32.0		28.8	25.6			
	15	59.10	9.7	4.8		4.3	3.7			
	20	44.27	12.5	6.4		5.8	5.1			
	25	35.42	15.7	8.0		7.2	6.4			
	30	29.51	18.8	9.6		8.6	7.7			
	35	25.30	21.9	11.2		10.1	9.0			
40	22.14	25.0	12.8		11.5	10.2				
45	19.68	28.2	14.4		13.0	11.5				
12	50	6	17.71	31.3	16.0	284	14.4	255	12.8	226
	55	16.10	34.4	17.6		15.8	14.1			
	60	14.76	37.6	19.2		17.3	15.4			
	65	13.62	40.7	20.8		18.7	16.6			
	70	13.65	43.8	22.4		20.2	17.9			
	75	11.81	47.0	24.0		21.6	19.2			
	80	11.07	50.1	25.6		23.0	20.5			
	90	9.94	56.3	28.8		25.9	23.0			
	100	8.90	61.2	32.0		28.8	25.6			
	20	59.70	13.2	6.3		5.8	5.1			
	25	47.64	15.7	8.0		7.2	6.4			
	30	39.70	18.8	9.6		8.6	7.7			
	35	34.03	21.9	11.2		10.1	9.0			
	40	29.77	25.0	12.8		11.5	10.2			

Part Number		Inner Dia.	Spring Constant	a	Usage Method					
Code	D	L	N/mm	Solid Height	0.3 million times F=L×32%	0.5 million times F=L×28.8%	1 million times F=L×25.6%			
				Fmm	Load N	Fmm	Load N	Fmm	Load N	
14	45	7	26.47	28.2	14.4		13.0	11.5		
	50	23.82	31.3	16.0		14.4	12.8			
	55	21.65	34.4	17.6		15.8	14.1			
	60	19.85	37.6	19.2		17.3	15.4			
	65	18.32	40.7	20.8		18.7	16.6			
	70	17.01	43.8	22.4		20.2	17.9			
	75	15.88	47.0	24.0		21.6	19.2			
	80	14.89	50.1	25.6		23.0	20.5			
	90	13.23	56.3	28.8		25.9	23.0			
	100	11.91	62.6	32.0		28.8	25.6			
	20	78.20	13.1	6.4		5.8	5.2			
	25	62.64	15.7	8.0		7.2	6.4			
	30	52.20	18.8	9.6		8.6	7.7			
	35	44.74	21.9	11.2		10.1	9.0			
40	39.15	25.0	12.8		11.5	10.2				
45	34.80	28.2	14.4		13.0	11.5				
50	31.32	31.3	16.0		14.4	12.8				
16	55	8	28.47	34.4	17.6	500	15.8	451	14.1	402
	60	26.10	37.6	19.2		17.3	15.4			
	65	24.09	40.7	20.8		18.7	16.6			
	70	22.37	43.8	22.4		20.2	17.9			
	75	20.88	47.0	24.0		21.6	19.2			
	80	19.57	50.1	25.6		23.0	20.5			
	90	17.40	56.3	28.8		25.9	23.0			
	100	15.66	62.6	32.0		28.8	25.6			
	20	99.50	13.2	6.4		5.8	5.1			
	25	79.03	15.7	8.0		7.2	6.4			
	30	65.86	18.8	9.6		8.6	7.7			
	35	56.45	21.9	11.2		10.1	9.0			
	40	49.39	25.0	12.8		11.5	10.2			
	45	43.90	28.2	14.4		13.0	11.5			
50	39.51	31.3	16.0		14.4	12.8				
18	55	9	35.92	34.4	17.6	637	15.8	569	14.1	510
	60	32.93	37.6	19.2		17.3	15.4			
	65	30.40	40.7	20.8		18.7	16.6			
	70	28.22	43.8	22.4		20.2	17.9			
	75	26.34	47.0	24.0		21.6	19.2			
	80	24.70	50.1	25.6		23.0	20.5			
	90	21.95	56.3	28.8		25.9	23.0			
	100	19.76	62.6	32.0		28.8	25.6			
	20	123.00	13.2	6.4		5.7	5.2			
	25	98.06	15.7	8.0		7.2	6.4			
	30	81.71	18.8	9.6		8.6	7.7			
	35	70.04	21.9	11.2		10.1	9.0			
	40	61.28	25.0	12.8		11.5	10.2			
	45	54.48	28.2	14.4		13.0	11.5			
50	49.03	31.3	16.0		14.4	12.8				
20	55	10	44.57	34.4	17.6	785	15.8	706	14.1	628
	60	40.86	37.6	19.2		17.3	15.4			
	65	37.71	40.7	20.8		18.7	16.6			
	70	35.02	43.8	22.4		20.2	17.9			
	75	32.6	47.0	24.0		21.5	19.2			
	80	30.5	50.1	25.6		23.0	20.5			
	90	27.2	56.3	28.8		25.9	23.0			
	100	24.4	62.5	32.1		28.9	25.6			

Medium Load Spring (Red) ▶

Coil Springs

Part Number			Inner Dia. d	Spring Constant N/mm	a Solid Height	Usage Method					
Code	D	L				0.3 million times F=L×32%	0.5 million times F=L×28.8%	1 million times F=L×25.6%	Fmm	Load N	Fmm
YSWM		20	197.80	5.8	6.4			5.76		5.12	
		25	152.50	15.7	8.0			7.2		6.4	
		30	127.08	18.8	9.6			8.6		7.7	
		35	108.93	21.9	11.2			10.1		9.0	
		40	95.31	25.0	12.8			11.5		10.2	
		45	84.72	28.2	14.4			13.0		11.5	
		50	76.25	31.3	16.0			14.4		12.8	
	25	55	12.5	69.32	34.4	17.6	1266	15.8	1098	14.1	981
		60		63.54	37.6	19.2		17.3		15.4	
		65		58.65	40.7	20.8		18.7		16.6	
		70		54.46	43.8	22.4		20.2		17.9	
		75		50.83	47.0	24.0		21.6		19.2	
		80		47.66	50.1	25.6		23.0		20.5	
		90		42.36	56.3	28.8		25.9		23.0	
		100		38.13	62.6	32.0		28.8		25.6	
		25		219.13	15.7	8.0		7.2		6.4	
		30		182.75	18.8	9.6		8.6		7.7	
		35		156.65	21.9	11.2		10.1		9.0	
		40		137.07	25.0	12.8		11.5		10.2	
		45		121.84	28.2	14.4		13.0		11.5	
	50		109.65	31.3	16.0		14.4		12.8		
30	55	15	99.68	34.4	17.6	1765	15.8	1579	14.1	1412	
	60		91.38	37.6	19.2		17.3		15.4		
	65		84.35	40.7	20.8		18.7		16.6		
	70		78.32	43.8	22.4		20.2		17.9		
	75		73.10	47.0	24.0		21.6		19.2		
	80		68.53	50.1	25.6		23.0		20.5		
	90		60.92	56.3	28.8		25.9		23.0		
	100		54.83	62.6	32.0		28.8		25.6		
	40		187.50	25.0	12.8		11.5		10.2		
	45		166.67	28.2	14.4		13.0		11.5		
	50		150.00	31.3	16.0		14.4		12.8		
	55		136.36	34.4	17.6		15.8		14.1		
	60		125.00	37.6	19.2		17.3		15.4		
35	65	17.5	115.38	40.7	20.8	2400	18.7	2160	16.6	1912	
	70		107.14	43.8	22.4		20.2		17.9		
	75		100.00	47.0	24.0		21.6		19.2		
	80		93.75	50.1	25.6		23.0		20.5		
	90		83.33	56.3	28.8		25.9		23.0		
	100		75.00	62.6	32.0		28.8		25.6		
	40		245.00	25.0	12.8		11.5		10.2		
	45		217.59	29.4	14.4		13.0		11.5		
	50		195.83	31.3	16.0		14.4		12.8		
	55		178.03	36	17.6		15.8		14.1		
	60		163.19	37.6	19.2		17.3		15.4		
40	65	20	150.64	42.5	20.8	3140	18.7	2820	16.6	2510	
	70		139.88	43.8	22.4		20.2		17.9		
	75		130.56	49.1	24.0		21.6		19.2		
	80		122.40	50.1	25.6		23.0		20.5		
	90		108.80	56.3	28.8		25.9		23.0		
	100		97.92	62.6	32.0		28.8		25.6		



Please order as shown

Part Number			d
Code	D	L	
YSWM	40	80	20
		90	

YSWM - D40 - L80



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



Delivery
4

